



ACTIVITIES REPORT

Research Group in Bioinformatic, Intelligent Systems and Educational Technology

September 2012



VNIVERSIDAD
D SALAMANCA



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1 Group Description

The Bioinformatics, Intelligent Systems and Educational Technology (BISITE) group brings Together a group of researchers interested primarily in the development and application of intelligent computer systems to various types of problems. BISITE is characterized by multidisciplinary and inter-university. It is multidisciplinary by the member's diverse Profile: computer scientists, biologists, chemists, physicists, oceanographers and economists. BISITE's interuniversity aspect includes researchers from several universities and research centers. The work of this group has a very practical component, although the theoretical aspects, necessary in any research, are not forgotten. Technological innovation also applies to the education and teaching fields, at both undergraduate and postgraduate levels. In this sense BISITE has developed techniques and educational tools based on intelligent systems and mathematical models, of great help for both teachers and students.

In the past years, the researchers have focused majority of the efforts on the development of ambient intelligence systems, having developed successful identification and tracking models with radio frequency, vision systems with stereoscopic cameras, and animated 3D digital models in runtime. They have also developed innovative products for interaction and adaptation for wireless devices such as 3D Web environments. In the field of bioinformatics they have developed innovative proposals for classification and analysis of genomic microarrays using hybrid artificial intelligence systems.

BISITE works on more than a dozen projects in collaboration with leading companies in these industries and other issues related to intelligent systems, agents and multiagent systems, bioinformatics, educational technology, ambient intelligence, oceanography...

1.1 Coordinator



Dr. Juan M. Corchado Rodríguez is a Full Professor in the field of Computer Science and Artificial Intelligence. He is currently the Dean of the Faculty of Science and Adjunct Director of the Science Park Foundation of the University of Salamanca, and Director of the Biomedicine, Intelligent Systems and Educational Technology Group of the University of Salamanca. During the last 15 years he has worked in 4 research centers and has defended two doctoral theses. He is a founding member and academic coordinator of the University Institute for Research in Art and Animation Technology of the University of Salamanca. He is the director of the MSc program in Ecommerce System Development, and the MSc Programs on Digital Animation.

Academic Background. Juan M. Corchado graduated with a Computer Science degree from the University of Salamanca in 1992. He received his BSc in Software Engineering with First



Class Honours from the University of the West of Scotland (Glasgow) in 1995 (this degree was recognized by the Spanish Ministry of Education as the equivalent of Computer Engineering). He presented his doctoral thesis on the development of distributed systems titled “Multi-agent systems based on hybrid algorithms for Artificial Intelligence for real time predictions and complex series” in the Department of Computer Science and Automation of the University of Salamanca in 1998. His second doctoral thesis “Neuro-symbolic model for real-time forecasting problems” at the Computer Science Department of the University of the West of Scotland (Glasgow) in 2000 focused on casebased reasoning systems. He was an Erasmus and COMMETT scholar and received a three year research grant at the University of the West of Scotland. He was awarded the Court Medal from the University of the West of Scotland, as well as the Addison Wesley Award and the Rotary Club Award. He has also received over a dozen grants to attend scientific conferences and gatherings for the IEEE, ACM and AAAI.

Research Activity. Juan M. Corchado has two lines of research. He has authored 65 articles published in distinguished journals (JCR) and published 41 articles in other journals that are not indexed. He is the author and/or editor of 70 science-related books and book chapters, and the author and/or co-author of 221 articles published in scientific conferences, of which 63 have been published in LNCS/LNAI and 148 have been accepted in conferences identified as the 65 most highly regarded conferences in “Computer Science Conference Ranking”. He has presented 76 of these articles.

He has been invited to present 33 seminars/papers at scientific and technical events in universities from 7 different countries. He has received an extraordinary doctorate award and his publications have received 6 mentions for quality in prestigious international conferences. He presented these works on grants from the ACM, the IEEE and the AAAI. He has collaborated or is currently collaborating on 40 R&D projects at a European, national or regional level, in 32 of which he participated as Main Researcher. He has been the Salamanca Partner coordinator for the University of Salamanca, coordinator for three international and three national thematic networks, and has participated as a member of the University of Salamanca with another national network.

Juan M. Corchado has registered 8 patents and intellectual properties and is the Principal Investigator for 21 Article 83 national projects related to the process of knowledge transfer and technology. He is also the Main Researcher for another 9 Article 83 studies on scientific/technical business management.

He worked as a researcher and completed his undergraduate and graduate studies in 6 years at the University of the West of Scotland and at the Plymouth Marine Laboratory (1992-1998). He was a research scholar at the University of Rovira i Virgili and at the Polytechnical University of Valencia for a BUDGET: of 12 months including 4 research stays over the last 7 years.

Teaching and Professional Experience. Juan M. Corchado has taught in three different universities: the University of Paisley (UK) for three years, the University of Vigo (Spain) for 2 years, and the University of Salamanca (Spain) for eleven years. He has taught over 26 different courses (18 of which he developed) for first year (7), second year (3), and official master's and doctorate (5) levels. He also taught courses in 5 other doctoral programs. He is a professor in the Master's (previously Doctorate) in Intelligent Computer Systems program of Salamanca, which has received a Mention of Quality since 2003. He has chaired 11 doctorate theses, four of which received the Extraordinary Doctorate Award, two of which were European, and another two of which were defended as Doctorate with Mention of Quality. He has directed 154 senior thesis defenses, and has taught 9 courses in university-specific degrees for both the University of Salamanca and the University of the West of Scotland. He has organized 8 summer courses at the University of Salamanca, and directed 83 projects for university-specific Master and Expert degrees. He has authored and/or edited 21 monographs with teaching material for postgraduate and/or professional students, and has participated in 8 Teaching Innovation programs, four of which he directed.

He worked as programmer and analyst in different research projects at the Plymouth Marine Laboratory between 1992-1993 and 1995-1998, and directed projects in two other companies. He periodically works with ANEP (National Evaluation and Foresight Agency) evaluating projects from the Ministry of Science and Technology, the Torres Quevedo program, the Petri IT knowledgebase, and regional plans; with the EQA Evaluation and Certification Agency, and with the General Foundation of the University of Salamanca. For his work in Plymouth Marine Laboratory, which was presented as his senior project at the University of Paisley, he received the following awards: IBM Award, Young Software Engineering Award, and the competitive Real Time Engineering Award. The last two were awarded by the Scottish Software Federation during a competition among various projects selected by the Computer Science Departments of all British universities..

Management Experience. Juan M. Corchado is currently Dean of the Faculty of Sciences of the University of Salamanca, and Adjunct Director of the Scientific Park Foundation of the University of Salamanca. He was the Subdirector (Director of Studies) at the School of Computer Engineering during the 1999-2000 academic year, and was a member of the committee to expand second year studies for Computer Engineering at the University of Vigo. He was the Main Researcher in 21 national and international R&D projects. He initiated and directed the university-specific Master's and Expert programs in E-commerce System Development (which included 235 students during the 2009-2010 academic year) and the Master's, Expert and Specialist in Digital Animation at the University of Salamanca. He was the president of the Committee of Scientific Organization for 22 conferences/workshops. He has directed 21 courses of Continuing Education and 35 Extraordinary Courses at the University of Salamanca and directs the Certification program for Experts in CERTYRED Security.



1.2 Members



Dr. Javier Bajo Pérez. Doctorate of Computer Sciences from the University of Salamanca (Spain). Received a degree in Computer Science Engineering from the Pontifical University of Salamanca and a degree in Technical Engineering in Computer Science Systems from the University of Valladolid. Lecturing Professor since 2003, and director of the Data Processing Center of the Pontifical University of Salamanca since 2010. His primary lines of research focus on Multi-agent systems and Ambient Intelligence.



Dr. Emilio S. Corchado Rodríguez. Doctorate of Computer Science from the University of Salamanca. Currently Senior Lecturer (US: Associate Professor) in the Department of Computer Science and Automation also at the University of Salamanca. His lines of research focus on unsupervised learning, multiple classification systems, and hybrid intelligent systems. Extensive experience in organizing different scientific-technical events.



Dra. Angélica González Arrieta. Doctorate of Computer Science from the University of Salamanca. Ample research experience in the field of Neurofuzzy Computing and Neural Networks. Associate Professor in the Department of Computer Science and Automation from the University of Salamanca. Currently combining teaching and research by managing various formative activities on Computer Science Security, and by working actively with the National Police Academy of Avila (Spain).



Dra. M^a Belén Pérez Lancho. Undergraduate studies in Physics with a specialty in Electronics, and Doctorate of Sciences from the University of Salamanca. Post doctoral studies in artificial neural networks at the Pierre and Marie Curie University in Paris. Associate Professor in the Department of Computer Science and Automation at the University of Salamanca. Secretary of Academics at the Faculty of Sciences between 2000-2004 and has been the

Associate Dean since 2008.



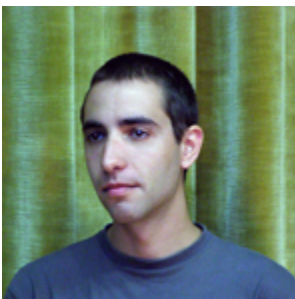
Dr. Eladio Sanz García. Doctorate and undergraduate degree in Physical Sciences from the University of Valladolid. Currently Professor in the Department of Computer Science and Automation at the University of Salamanca. His lines of research focus on intelligent automation in industrial production.



Dr. Eusebio Sánchez Blanco. Doctorate in Fine Arts from the University of Salamanca. Currently Associate Professor in the Department of Art History in the Faculty of Fine Arts. Professor at the University Institute of Research in Art and Technology Animation at the University of Salamanca. Research focuses on the creation of realistic models of anthropomorphic characters through advanced digital animation techniques.



Dra. Sara Rodríguez González. Doctorate in Computer Science and Automation from the University of Salamanca. Obtained degree in Technical Engineering and Computer Science Systems in 2004 and Computer Science Engineering in May 2007 also from the University of Salamanca. Assistant Lecturer in the Department of Computer Sciences and Automation. Her research experience focuses on the application of multi-agent systems in different contexts, and on the use of Digital Animation techniques.



Dr. Juan Francisco De Paz Santana. Doctorate in Computer Science and Automation from the University of Salamanca (2010). Currently Assistant Lecturer in the Department of Computer Science and Automation at the University of Salamanca. Undergraduate degree in Engineering and Computer Science (2005) and Statistics (2007) from the University of Salamanca. His research work focuses on the coordination and development of projects in the field of Bioinformatics and Biomedicine, applying reasoning techniques and Artificial Intelligence algorithms.



Dr. Dante Israel Tapia Martínez. Doctorate in Computer Science and Automation from the University of Salamanca, Master's in Telecommunication and Engineering in Computational Systems from the University of Colima, Mexico. More than 5 years professional experience in managing applied research projects. Primary lines of research focus on the analysis and design of distributed architectures with agent technology, the integration of wireless sensor networks, and the development of Ambient Intelligence based systems.



Ana de Luis Reboredo. Associate Professor in the Department of Computer Science and Automation at the University of Salamanca. Scientific interest is oriented towards research in the development of advanced engineering software tools and multi-agent systems. Currently completing doctoral thesis on planning of a multi-agent system organization, applying queuing theory and various genetic algorithms.



Dra. Ana Belén Gil González. Undergraduate degree in Physical Sciences from the University of Salamanca. Currently Assistant Professor in the Department of Computer Science and Automation at the University of Salamanca. Currently completing pre-doctoral studies in the search and retrieval of educational resources using virtual agent organizations and collaborative filtering techniques. Has completed various research projects at the Pierre and Marie Curie University in France.



Dr. Cristian Iván Pinzón Trejos. Doctor por la University of Salamanca, desarrolla su actividad investigadora en la aplicación de técnicas de Inteligencia Artificial en el campo de la Seguridad de la Información y su aplicación en entornos de Servicios Web y Bases de Datos; así como en innovación en Tecnología de Agentes y Organizaciones Virtuales.



Dr. Aitor Mata Conde. Undergraduate degree in Computer Science Engineering and doctorate in Computer Science from the University of Salamanca. His research interest is in the field of Virtual Reality and Enhanced reality, and hybrid systems.



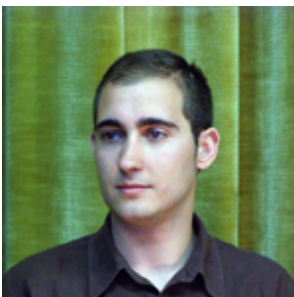
1.3 Phd Students



Manuel Pablo Rubio Cabero. Professor at the University of Salamanca in the field of Graphic Expression in Engineering. Master's in Intelligent Systems, Material Engineering and Technical Industrial Engineering from the University of Salamanca. Currently pursuing doctorate studies at this university. His research focuses on artificial vision, multi-agent systems and virtual and enhanced reality. He has published scientific articles in prestigious national and international journals, and has participated in different research projects at a national level.



Jesús Ángel Román Gallego. Undergraduate degree in Computer Science from the Pontifical University of Salamanca. Currently pursuing doctorate studies at the University of Salamanca, where is Assistant Lecturer in the Department of Computer Science and Automation. Research focuses on Artificial Intelligence and Knowledge Engineering.



Fernando de la Prieta Pintado. Undergraduate degree in Computer Science from the University of Salamanca. Currently pursuing doctorate studies also at the University of Salamanca. Research focuses on multi-agent systems, virtual organizations, and educational technology. He Has published articles in prestigious national and international conferences, and has participated in different research projects both at a national and European level.



Carolina Zato Domínguez. Undergraduate degree in Computer Science Engineering from tte University of Salamanca and Master's in Intelligent systems. Currently an FPI scholar working in the field of multi-agent systems and bioinformatics. She has published articles in prestigious international conferences and taught continuing education courses in BISITE related to E-commerce and bioinformatics.



Ricardo S. Alonso Rincón. Undergraduate degree in Telecommunication Engineering from the University of Valladolid. Currently pursuing Doctorate studies in Computer Science and Automation at the University of Salamanca, and working on an undergraduate degree in Economics at the National University of Distance Education. He has 3 years of research experience and 3 years of experience in the design and development of wireless sensor network and radio location products.



Juan Agustín Fraile. Currently pursuing a Doctorate at the University of Salamanca. Undergraduate degree in Technical Engineering in the Pontifical University of Salamanca in 1996 and . He works on automation systems in DMR Consulting and on the Data Processing Center of the Pontifical University of Salamanca. He has published scientific articles in prestigious national and international journals, and has participated in different research projects at a national level.



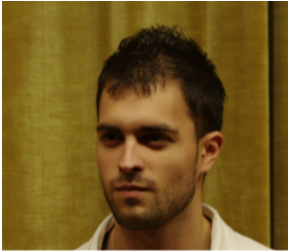
Rosa de Guadalupe Cano Angulano. Currently pursuing Doctorate studies at the University of Salamanca. Her research focuses on the field of Distributed Artificial Intelligence, as well as Models of Cooperation and Coordination for Distributed Systems.



José María Pérez Ramos. Undergraduate degree in Computer Science Engineering from the Pontifical University of Salamanca and pursuing a doctorate from the University of Salamanca. His research focuses on multi-agent systems, information fusion algorithms and mobile technology. He has published several articles in prestigious national conferences, and has participated in several research projects at national and international levels. Was part of the winning team in the Research Modality contest at the “NFC Forum Global Competition 2010”.



1.4 Engineers



Pablo Chamoso



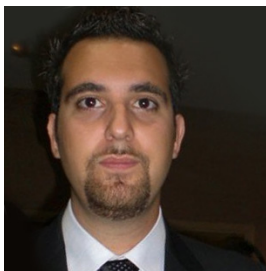
Elena García



Antonio J. Sánchez



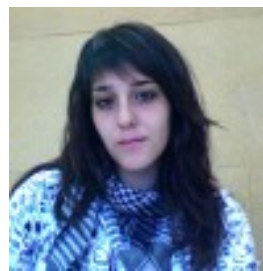
Roberto Gonzalez



Gabriel Villarubia



Alejandro Sánchez



María del Sol Lerma



José Luis García



Carlos Terleira



José Antonio Pardo



Jesús Sánchez Varas



Raúl Montero



Cristina Folgueras



Hugo Lanchares



José Luis Rufes



Álvaro Fernández



David Hontiveros



Daniel Alfageme



Jesús Pino

1.5 Collaborators

Dra. Vivian Félix López Batista

- Doctor in Information Science by the University of Salamanca
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Dr. Luis F. Castillo Ossa

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- <http://luisfercastillo.com>

Dr. Bruno Baruque

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- University of Burgos

Dr. Florentino Fernández Riverola

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- <http://sing.ei.uvigo.es/~riverola>

Dr. Manuel González Bedía

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- <http://webdiis.unizar.es/~mgbedia>

Dr. Álvaro Herrero Cosío

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- Assistant Professor
- University of Burgos
- <http://pisuerga.inf.ubu.es/ahcosio>

Dra. Leticia Curiel

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- University of Burgos
- <http://pisuerga.inf.ubu.es/lcuriel>

Dra. María Belén Vaquerizo García

- Doctor in Information Science by the University of Burgos
- Professor
- University of Burgos
- <http://pisuerga.inf.ubu.es/belvagar>



2 Patents and Copyrights

2.1 Patents

TITLE: OU-120-03. Sistema Inteligente de Control Empresarial SICE. (Intelligent Control System Business).

- AUTHORS: Juan Manuel Corchado Rodríguez
- REFERENCE: 03/2004/934.
- KIND OF COPYRIGHT: Software.
- COUNTRY: Spain
- DATE: 05/12/2003.

2.2 Copyrights

TITLE: JATLiteMetaSearcher: Sistema multiagente para búsquedas múltiples en Internet. (Multiagent System for Multiple searches in Internet).

- AUTHORS: Javier Bajo Pérez, Juan Francisco De Paz Santana, Sara Rodríguez González, Davinia Carolina Zato Domínguez, Fernando de la Prieta Pintado, Emilio Santiago Corchado Rodríguez y Juan Manuel Corchado Rodríguez.
- KIND OF COPYRIGHT: Software.
- REFERENCE: SA-195-10
- COUNTRY: Spain
- REFERENCE: 2011

TITLE: Self Organized Dynamic Tree Neural Network (SODTNN).

- AUTHORS: Yanira del Rosario De Paz Santana, Juan Francisco De Paz Santana, Javier Bajo Pérez, Fernando de la Prieta Pintado, Sara Rodríguez González, Davinia Carolina Zato Domínguez, Emilio Santiago Corchado Rodríguez y Juan Manuel Corchado Rodríguez.
- KIND OF COPYRIGHT: Software.
- REFERENCE: SA-191-10
- COUNTRY: Spain
- REFERENCE: 2011

TITLE: Visual Components.

- AUTHORS: Juan Francisco De Paz Santana, Yanira del Rosario De Paz Santana, Javier Bajo Pérez, Davinia Carolina Zato Domínguez, Sara Rodríguez González, Fernando de la Prieta Pintado, Emilio Santiago Corchado Rodríguez y Juan Manuel Corchado Rodríguez.
- KIND OF COPYRIGHT: Software.
- REFERENCE: SA-194-10
- COUNTRY: Spain
- REFERENCE: 2011

TITLE: GES-IN: Sistema de gestión interna empresarial. (Business office system).

- AUTHORS: Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Juan Francisco De Paz Santana, Sara Rodríguez González, Davinia Carolina Zato Domínguez, Fernando de la Prieta Pintado, Emilio Santiago Corchado Rodríguez, Belén Pérez Lancho, Vivian Félix López Batista
- KIND OF COPYRIGHT: Software.
- REFERENCE: SA-197-10
- COUNTRY: Spain
- REFERENCE: 2011

TITLE: Gestión de un C.R.A. (Colegio Rural Agrupado). (Managing a Rural School).

- AUTHORS: Davinia Carolina Zato Domínguez, Fernando de la Prieta Pintado, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco de Paz Santana, Emilio Santiago Corchado Rodríguez y Juan Manuel Corchado Rodríguez y Ana de Luís Reboredo
- KIND OF COPYRIGHT: Software.
- REFERENCE: SA-192-10
- COUNTRY: Spain
- REFERENCE: 2011

TITLE: BRENHET: Búsqueda de Recursos Educativos en un eNtorno HETerogéneo. (Search Educational Resources in a heterogeneous environment).

- AUTHORS: Fernando de la Prieta Pintado, Sara Rodríguez González, Javier Bajo Pérez, Juan Francisco de Paz Santana, Davinia Carolina Zato Domínguez, Ana Belén Gil González, Emilio Santiago Rodríguez y Juan Manuel Corchado Rodríguez
- KIND OF COPYRIGHT: Software.
- REFERENCE: SA-196-10
- COUNTRY: Spain
- REFERENCE: 2011

TITLE: GeoTec: Sistema para la visualización geográfica de telecentros en los municipios españoles. (System for geographic visualization of telecentres in Spanish municipalities).

- AUTHORS: Emilio Santiago Corchado Rodríguez, Juan Manuel Corchado Rodríguez, Angélica González Arrieta, Javier Bajo Pérez, Juan Francisco de Paz Santana, Sara Rodríguez González, Davinia Carolina Zato Domínguez, Fernando de la Prieta Pintado
- KIND OF COPYRIGHT: Software.
- REFERENCE: SA-193-10
- COUNTRY: Spain
- REFERENCE: 2011

TITLE: STEREOSYS: Sistema para el tratamiento y análisis de imágenes estereoscópicas. (System for the processing and analysis of stereoscopic images).



- **AUTHORS:**Sara Rodríguez González, Davinia Carolina Zato Domínguez, Fernando de la Prieta Pintado, Emilio Santiago Corchado Rodríguez, Juan Manuel Corchado Rodríguez, Javier Bajo Pérez y Juan Francisco De Paz Santana
- **KIND OF COPYRIGHT:** Software.
- **REFERENCE:** SA-198-10
- **COUNTRY:** Spain
- **REFERENCE:** 2011

TITLE: SORFID: Sistema Multiagente para la Seguridad en Obras mediante tecnología RFID. (Multiagent System for safe work environments through RFID technology).

- **AUTHORS:**Sara Rodríguez González, Juan Francisco de Paz Santana, Javier Bajo Pérez y Juan Manuel Corchado Rodríguez.
- **KIND OF COPYRIGHT:** Software
- **REFERENCE:** SA-207-09
- **DATE:** 2009

TITLE: SQLMAS: Arquitectura multiagente para bloquear ataques de inyección SQL a través de consultas SQL. (Multiagent architecture to block SQL injection attacks via SQL queries).

- **AUTHORS:**Cristian I. Pinzón, Javier Bajo Pérez, Juan Francisco de Paz Santana, Sara Rodríguez González y Juan Manuel Corchado Rodríguez.
- **KIND OF COPYRIGHT:** Software
- **REFERENCE:** SA-166-09
- **DATE:** 2009

TITLE: SHOMAS: Sistema multiagente para la gestión de problemas dinámicos en tiempo de ejecución. (Multiagent system for managing dynamic problems at runtime).

- **AUTHORS:**Juan Francisco de Paz Santana, Juan Manuel Corchado Rodríguez, Sara Rodríguez González y Javier Bajo Pérez.
- **KIND OF COPYRIGHT:** Software
- **REFERENCE:** SA-165-09
- **DATE:** 2009

TITLE: ALZ-MAS: Sistema Multiagente para el cuidado y control de pacientes en residencias geriátricas. (Multiagent System for the care and management of patients in geriatric residences).

- **AUTHORS:**Dante I. Tapia, Juan Francisco de Paz Santana, Sara Rodríguez González, Javier Bajo Pérez y Juan Manuel Corchado Rodríguez.
- **KIND OF COPYRIGHT:** Software
- **REFERENCE:** SA-164-09
- **DATE:** 2009

TITLE: AirSea-MAS: A multiagent system for monitoring the CO2 exchange rate in the North Atlantic Ocean.

- **AUTHORS:**Javier Bajo Pérez, Juan Francisco de Paz Santana, Sara Rodríguez González y Juan Manuel Corchado Rodríguez.
- **KIND OF COPYRIGHT:** Software
- **REFERENCE:** SA-161-09
- **DATE:** 2009

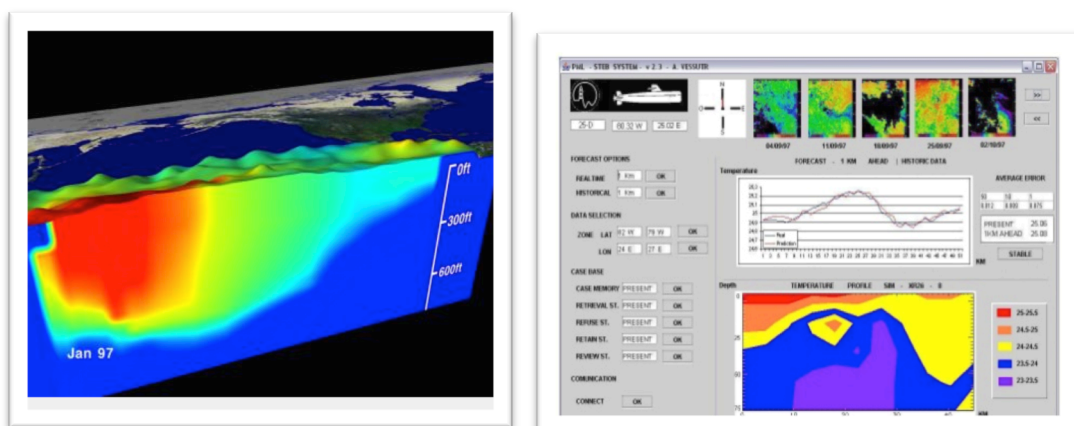
3 Research Fields

3.1 Artificial Intelligence and Computer Science

The research group has experience in the development of Artificial Intelligence systems applied to Knowledge Management, which incorporates various technologies such as multi-agent systems, intelligent agents, case-based reasoning systems, plan-based reasoning systems, deliberative reasoning systems, artificial neural networks, genetic algorithms, etc. These techniques have been applied as a whole or individually to different knowledge management scenarios, with particular emphasis in Data Modelling, Knowledge Extraction from Heterogeneous Databases, and Decision Support and Recommendation Systems.

Significant studies include Knowledge Management in hospital environments to monitor and support decisions made in geriatric care homes, and to discover information in heterogeneous databases for cancer patients. The group is also experienced in modeling and managing knowledge in financial systems for risk detection and prevention, as well as in decision support in the training and integration of disabled persons into the workforce. Other examples include knowledge extraction during the process of CO₂ exchange in the Atlantic Ocean, the movement of oil slicks, and obtaining advanced knowledge to improve database security.

The majority of these projects were done in collaboration with businesses such as Telefonica R&D, Insa-IBM, Panda Software, GPM, INDRA, etc., and with public organizations such as the Cancer Institute of Salamanca, the University Hospital of Salamanca, the Center for Marine Environment Control, or the Plymouth Marine Research Laboratory.



Latest publications:

- Bajo J., Corchado J.M., De Paz Y., De Paz J.F., Rodríguez S., Martín Q. and Abraham A. (2009) SHOMAS: Intelligent Guidance and Suggestions in Shopping Centres. *Applied Soft Computing*. 9 (2) 851-862.
- Mata A. and Corchado J.M. (2009) Forecasting the probability of finding oil slicks using a CBR system. *Expert Systems with Applications*. 36-4 (2009) 8239–8246.
- Bajo J., De Paz J.F., De Paz Y. and Corchado J.M. (2009) Integrating Case Planning and RPTW Neuronal Networks to Construct an Intelligent Environment for Health Care. *Expert Systems with Applications*. 36 (3) 5844-5858.



- Borrajo M.L., Corchado J.M., Corchado E., Pellicer M.A. and Bajo J. Multi-Agent Neural Business Control System. Information Sciences. 180 (6) (2010) 911-927.
- Herrero Cosio, Álvaro; Corchado Rodríguez, Emilio Santiago; Saiz Barcena, Lourdes Cecilia; Ajith, Abraham., A Connectionist Knowledge Management System to Identify Knowledge Deficits in Practical Cases. Computational Intelligence, An International Journal. 2009 Vol. 26, Issue 1, Pág. 26-56.
- Vivian F. López, Santo L. Medina, Juan F. de Paz. Taranis: Neural networks and intelligent agents in the early warning against floods. Expert Systems with Applications. 39(11) (2012) 10031-10037.
- Javier Bajo, María L. Borrajo, Juan F. De Paz and Juan M. Corchado, A multi-agent system for web-based risk management in small and medium business. Expert Systems with Applications. 39 (8) (2012) 6921-6931.

Representative Projects:

PROJECT: **SUMA: Sistema Unificado Móvil Avanzado (Advanced Mobile Unified System)**

- FUNDED BY: Fondo Tecnológico – FEDER (Unión Europea) Proyecto Integrado
- DURATION: 2011 - 2013
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.

PROJECT: **CrisisProject.**

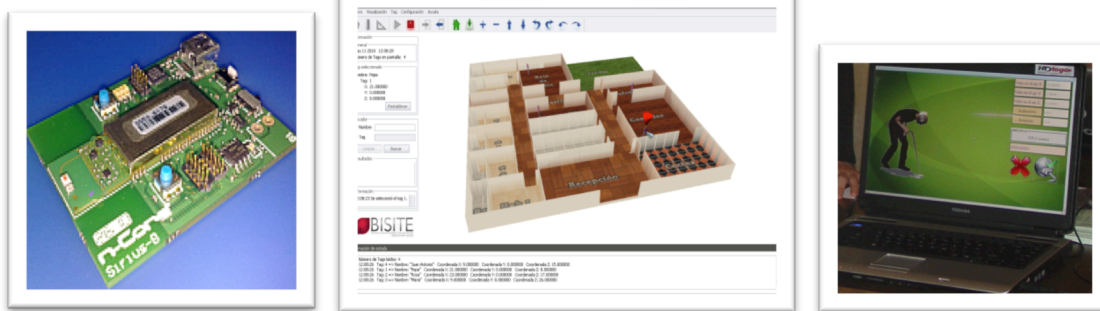
- FUNDED BY: Programa Leonardo da Vinci de la Comisión Europea
- DURATION: 2007 - 2009
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 235.000,00 €

PROJECT: **SIAAD: Sistema Integral Inteligente de Asistencia en el Ambito de la Dependencia TSI-020100-2008-307 (Integral Intelligent Support System In A Dependent Environment)**

- FUNDED BY: ECP: Ministry of Industry, Tourism and Commerce, Avanza I+D
- PARTNERS: GESTORES DE PROYECTOS MULTIMEDIA, S.L.
- DURATION: 2008
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 268.000,00 €

3.2 Ambient Intelligence

The research group BISITE has extensive experience in the development and implementation of systems based on Ambient Intelligence (AI) and related areas, such as Ambient Assisted Living, eHealth and eInclusion, among others. Applications are varied, from Context-Aware Computing systems to support accessibility, disabilities or dementia. These systems are able to obtain background information and automatically adjust to the user's needs and environment characteristics, all in a simple and ubiquitous form for users, with the objective to optimize and facilitate their daily activities.



Latest publications:

- Fraile J.A., Bajo J., Corchado J.M. and Abraham A. Applying wearable solutions in dependent environments. *IEEE Transactions on Information Technology in Biomedicine*. 2010. Vol. 14, Núm (6) Pág:1459-1467.
- Bajo J., Julian V., Corchado J. M., Carrascosa C., De Paz Y., Botti V. y De Paz J.F An Execution Time Planner for the ARTIS Agent Architecture. *Engineering Applications of Artificial Intelligence*. 2008. Volumen 21, núm. 5, Pág. 769-784
- Bajo J., Fraile J.A., Corchado J.M. and Pérez-Lancho B., The THOMAS Architecture in Home Care Scenarios: A case study. *Expert Systems with Applications*, 2010 Vol. 37, Núm 5 Pág: 3986-3999.
- Corchado J. M. , Bajo J. , y Abraham A., GERAmI: Improving the delivery of health care. *IEEE Intelligent Systems. Special Issue on Ambient Intelligence - Mar/Apr '08*. 2008. Volumen 3, núm. 2, Pág. 19-25.
- Dante I. Tapia, Ricardo S. Alonso and Juan M. Corchado, Improving an Ambient Intelligence Based Multi-Agent System for Alzheimer Health Care using Wireless Sensor Networks, *International Journal of Ambient Computing and Intelligence (IJACI)*, Special Issue: "Ubiquitous Developments in Ambient Computing and Intelligence: Human-Centered Applications" In Press
- Óscar García, Dante I. Tapia, Ricardo S. Alonso, Sara Rodríguez, Juan M. Corchado, Ambient Intelligent and Collaborative e-Learning: A New Definition Model, *Journal of Ambient Intelligence and Humanized Computing (JAIHC)*. 11(3).

Representative Projects:

PROJECT: Ambientes Inteligentes con Tecnología Accesible para el Trabajo (AZTECA). IDI-20110343. (Intelligent Environments with Accessible Technology for Work)

- FUNDED BY: CDTI. Proyecto de Cooperación Interempresas.
- DURATION: 2011 - 2013
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 235.000,00 €

PROJECT: El Mayor Online (Prolongar el Centro de Día al Hogar). (Extending Day Care to the Home)

- FUNDED BY: ADE Inversiones y Servicios. Junta de Castilla y León.



- PARTNERS: Limcasa, FlagSolutions, GPM, University of Salamanca, Universidad Pontificia de Salamanca, CEDETEL.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2011 - 2012.

PROJECT: ALIADO (Alzheimer Intelligent Ambient Domotic system). FIT-350300-2007-84.

- FUNDED BY: Ministry of Industry, Tourism and Commerce, PROFIT.
- PARTNERS: University of Salamanca, Universidad de Castilla-La Mancha, Universidad Autónoma de Madrid, Tulecom Group S.L., CEDETEL.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2007 - 2009.

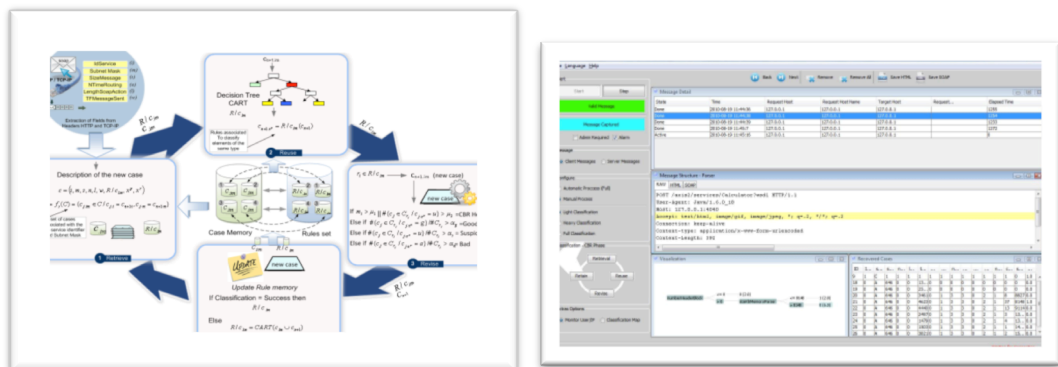
PROJECT: GERMAP (GERiatric Multi-Agent Platform) 137/2007.

- FUNDED BY: Ministry of Work and Social Services, IMSERSO.
- PARTNERS: University of Salamanca.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2007 - 2008.

3.3 Case-based Reasoning Systems

Case-based reasoning (CBR) is a paradigm based on the idea that similar problems have similar solutions. It draws on past experiences to solve new problems. Thus, if in a past moment a problem was solved using a certain solution, and the application of the solution produced a certain result, then it seems logical that if a new problem is presented with characteristics similar to one that was previously solved, the system resorts to the acquired experience to provide a solution. The acting model of the CBR system is known for the life cycle of the CBR system. The CBR system's life cycle specifies the ordered and related steps by extracting information to solve a specific problem. Of the particular problems in which the group has applied this reasoning mechanism some of the most notable include:

- Prediction of the exchange of CO₂ between sea and air.
- Specialization of CBR systems: CBP (Case-Based Planning).
- CBR systems for patients diagnostic.
- Planning Systems: guided, tasks.



Latest publications:

- Aitor Mata, Dante I. Tapia & Juan M. Corchado, CROS: A Contingency Response Multi-Agent System for Oil Spills Situations, *Applied Soft Computing*, 11(3). (2011). 3147–3159
- J.M. Corchado, J. Bajo, J.F. De Paz and S. Rodríguez (2009) An Execution Time Neural-CBR Guidance Assistant. *Neurocomputing*. 72 (13-15) (2009) 2743-2753.
- Mata A. and Corchado J.M., Forecasting the probability of finding oil slicks using a CBR system. *Expert Systems with Applications* 2009. 36 (4) 8239-8246.
- J.F. De Paz, S. Rodríguez, J. Bajo and J.M. Corchado (2009) Mathematical model for dynamic case based planning. *International Journal of Computer Mathematics*, ISSN: 0020-7160. 2009.
- Carolina Zato, Ana de Luis, Javier Bajo, Juan F. De Paz, Juan M. Corchado, Dynamic model of distribution and organization of activities in multi-agent systems, *Logic Journal of the IGPL*. 2012
- Juan F. de Paz, Javier Bajo, Angélica González, Sara Rodríguez and Juan M. Corchado, Combining Case-based Reasoning Systems and Support Vector Regression to Evaluate the Atmosphere-Ocean Interaction. *Knowledge and Information Systems*. 30 (2012) 155-177.

Representative Projects:

PROJECT: **SIMPLY GO!**

- DURATION: 2009-2012
- PRINCIPAL RESEARCHER: Juan Manuel Corchado
- FUNDED BY: Centro para el Desarrollo Tecnológico Industrial (CDTI)
- PARTNERS: GESTIONES DE PROYECTOS MULTIMEDIA S.L. (GPM)
- TOTAL: 702.641,00 €

PROJECT: **Plataforma para la codificación y análisis de indicadores sobre la experiencia turística (Platform for the codification and analysis of indicators for the tourist experience) (PAEXTUR). O22/10/SA/0009**

- FUNDED BY: ADE Inversiones y Servicios. Junta de Castilla y León.
- PARTNERS: ICN-Artea, University of Salamanca.



- PRINCIPAL RESEARCHER: Juan M- Corchado
- DURATION: 2010-2011.

PROJECT: The Atlantic Meridional Transect.

- FUNDED BY: UK Natural Environment Council.
- PARTNERS: University of Salamanca, Plymouth Marine Laboratory.
- PRINCIPAL RESEARCHER: J. Aiken.
- DURATION: 1995 - 2005.

PROJECT: Detección, Seguimiento y Predicción de Vertidos Conteniendo Hidrocarburos en Aguas Oceánicas Utilizando Teledetección y Sistemas de Inteligencia Artificial. (Detection, Monitoring and Prediction of Hydrocarbon Spills in Ocean Waters using Teledetection and Artificial Intelligence Systems) VEM2003-20578-C08-03.

- FUNDED BY: MCYT.
- PARTNERS: University of Salamanca, Plymouth Marine Laboratory.
- PRINCIPAL RESEARCHER: Jesús Torres, Universidad de Vigo.
- DURATION: 2003 - 2006.

3.4 Educational Technology

Education plays a fundamental role in society; the advancement of new technologies proposes a continuously evolving field of research. For this reason, the BISITE research group dedicates a large part of their resources to research in new technologies for teaching and learning in educational or business centers. The application of new technologies in teaching focuses on active learning, placing the student in the middle of the learning process and facilitating the adaptation to new teaching models designed for the European space of higher learning. The objectives in this line of research thus focus on research in new and original tools that facilitate the learning process and the study of new methodologies in order to carry out the educational process.

The initiatives of the BISITE research group are primarily financed at the European level, regionally (through the Autonomous Community of Castile and Leon) and nationally (through the Ministry of Industry and Transport and the Ministry of Education).



Latest publications:

- Bajo J., Mateos M., Rodríguez S., Zato C., Villarrubia G., Sánchez A., Corchado J.M. 2012. Inteligencia Ambiental. Mecanismos y nuevas estrategias para la formación e integración laboral de personas sordas. ISBN: 978-84-7299-946-6, pp. 189-226.
- de la Prieta F., Macarro A., Jiménez A., Casado A., Hallenborg K., De Paz J.F., Rodríguez S. and Bajo J. 2012. M-Learning for Elderlies: A Case Study. Distributed Computing and Artificial Intelligence. 9th International Conference. Advances in Intelligent and Soft Computing Series, Vol: 151, pp. 637-646. ISSN: 1867-5662.
- Jiménez A., Casado A., de la Prieta F., Rodríguez S., De Paz J.F. and Bajo J. 2012. Evaluation of Labor Units of Competency: Facilitating Integration of Disabled People. Advances in Intelligent and Soft Computing Series, Vol: 156, pp. 281-281. ISSN: 1867-5662.
- Bajo J., Sánchez M.A., Alonso V., Berjón R., Fraile J.A., and Corchado J.M. A Distributed Architecture for Facilitating the Integration of Blind Musicians in Symphonic Orchestras. Expert Systems with Applications. 2010. Vol. 37, Núm 12 8508-8515.
- López V.F., Corchado J., De Paz J.F., Rodríguez S., Bajo J., A SomAgent statistical machine translation, Applied Soft Computing. Vol. 1, Núm 11 Pág: 2925-2933 (2011)
- Macarro A., Pedrero A., and Fraile J.A.. (2009). Multiagent-Based Educational Environment for Dependents. J. Cabestany et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag. ISBN: 978-3-540-87655-7. Vol 5517. Pág. 602–609.

Representative projects:

PROYECT: TERENCE: An Adaptive Learning System for Reasoning about Stories with Poor Comprehenders and their Educators

- FUNDED BY: Call 5 del 7º Programa Marco de la Comisión Europea
- DURATION: 2010 - 2013
- PRINCIPAL RESEARCHER: Giovanni de Gasperis, Università degli Studi dell'Aquila
- PRINCIPAL RESEARCHER USAL: Juan Manuel Corchado
- TOTAL: 2.255.000,00 € (231.336,00 € para la USAL).

PROJECT: 3DRA: Realidad Aumentada, como soporte a la formación activa mediante portales 3D. (Enhanced Reality as a support for active training through the use of 3D portals). ID9/004.

- FUNDED BY: Universidad de Salamanca.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2009-2010.
- DESCRIPTION: Implement an intelligent environment based on enhanced reality, which facilitates active training through the use of 3D portals. In this way, the use of advanced digital animation techniques can develop portals based on 3D, which



provide the user with access to educational models based on virtual models. This facilitates active learning since students discover knowledge on their own.

PROYECT: Formación y tutorización activa mediante Web 3D (Active training and tutoring through Web 3D). ID/0019.

- FUNDED BY: Universidad de Salamanca.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2009-2010.
- DESCRIPTION: This project develops a tool that facilitates the interaction between teacher and student using this 3D Web technology. Thus, the process of mentoring can be done through interaction with digital avatars that possess some degree of intelligence.

PROJECT: La Repercusión de Medidas de Internacionalización en Asignaturas de Grado en Titulaciones de Ingeniero Informático. (The Consequences of Internationalization Measures in University Courses for a degree in Computer Engineering) US10/07.

- FUNDED BY: Council of Education of Castile and Leon.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2007-2008.
- DESCRIPTION: This project carries out a detailed study on the new measures of internationalization promoted by the new space for higher education and their impact on university level courses. The study focuses specifically on degrees in Computer Engineering.

PROJECT: Programa de Formación en TIC's para la Innovación Empresarial : E-TIC. (ICT Training Program for Business Innovation: E-ICT)

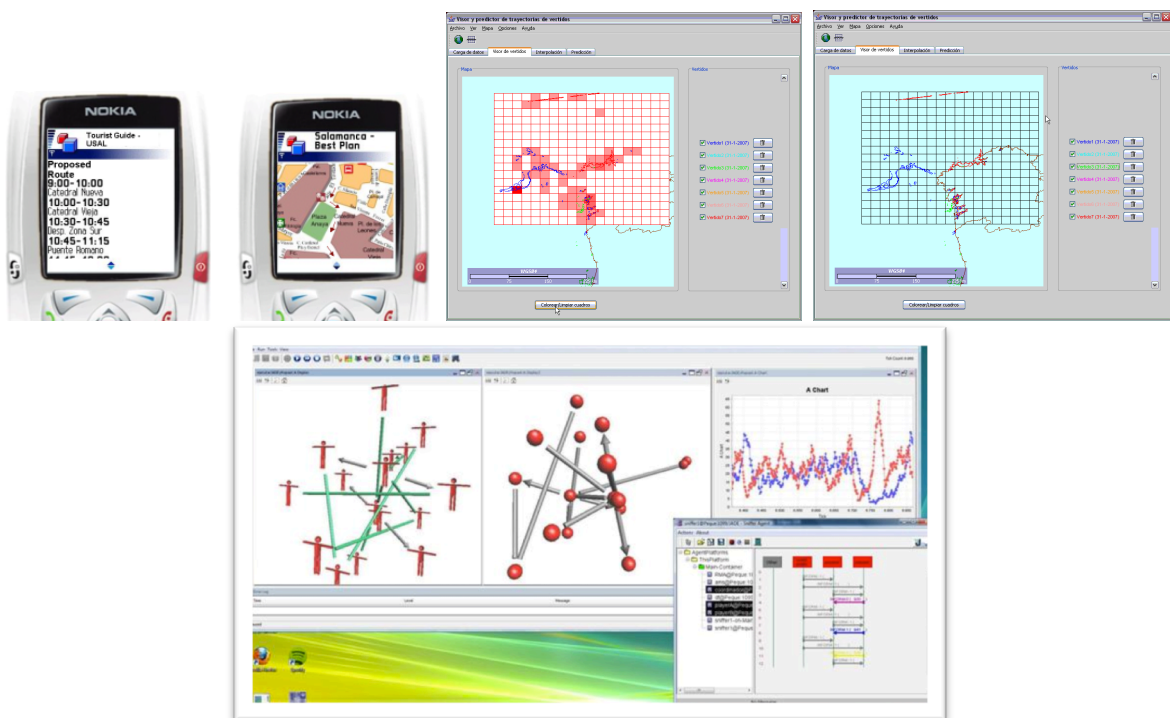
- FUNDED BY: Ministry of Industry, Tourism and Transport.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2006-2007.
- DESCRIPTION: Develop an architecture that facilitates the construction of educational environments that provide training in new information and communication technologies in business environments. The architecture includes specialized training activities primarily oriented toward business innovation.

3.5 Technology Agents, Multiagent Systems and Virtual Organizations

The BISITE research group concentrates its efforts in one of the most representative fields in the study and development of systems: agent technology. It is a fact that the use of agents and multiagent systems for application development in dynamic and flexible environments is growing. In general, agents are being used in a variety of applications because they offer substantial advantages, including the naturalness of the model to conceptualize different types of software. Similarly, multi-agent systems represent a new way of analyzing,

designing and implementing complex software systems. A multiagent system consists of several different autonomous agents interacting to achieve the desired function. Each agent performs a series of tasks and communicates with other agents to exchange information or demand a service. The fields of agent and multiagent systems research are currently in full development, with both spending an increasing amount of resources.

The line dedicated to research on agent technology is expanding, including virtual organizations of agents. The agent organizations that self-adjust to benefit from their current environment are more important. These organizations may appear in dynamic or emerging agents societies, such as those suggested by the domains grid, peer-to-peer networks or other environments in which agents group dynamically to provide composite services. Social factors in the organizations of multi-agent systems are also increasingly important to structure interactions in open and dynamic worlds. Along with virtual organizations, Agent-Based Simulation ABS, building platforms and architectures of agents and human-agent interaction (HAS) are the main lines of research.



Latest publications:

- Carolina Z., De Luis A., Bajo J., De Paz J.F., Corchado J.M. (2011). Dynamic model of distribution and organization of activities in multi-agent systems. Logic Journal of IGPL. DOI: 10.1093/jigpal/jzr005
- Sara Rodríguez, Yanira de Paz, Javier Bajo and Juan M. Corchado .Social-based Planning Model for Multiagent Systems. (2011) Expert Systems with Applications. vol.: 38 num.: 38 pag.: 13005-13023 DOI: 10.1016/j.eswa.2011.04.101



- Sara Rodríguez, Vicente Julián, Javier Bajo, Carlos Carrascosa Vicente Botti and Juan M. Corchado, Agent Based Virtual Organization Architecture, Engineering Applications of Artificial Intelligence, Pergamon-Elsevier Science LTD, Vol. 24 (5), pp.895-910 (2011)
- Rodríguez S., Tapia D.I., De Paz J.F., Corchado J.M., Bajo J. and Abraham A. Self-Organizing Multi-Agent system for management and planning surveillance routes. Computing and Informatics.
- Emilio Corchado, María A. Pellicer, M. L. Borrajo, MOVIH-IDS: A MLHL based method to an Agent-Based Architecture. International Journal of Computer Mathematics, 2009, Vol. 86, Issue 13-15, Pág. 1760-1768,

Representative Projects:

PROJECT: Organizaciones Virtuales Adaptativas: Mecanismos, Arquitecturas y Herramientas. (OVAMAH) (Virtual Adaptive Organizations: Mechanisms, Architectures and Tools)

- FUNDED BY: Ministry of Science and Innovation.. Non-oriented Fundamental Research Projects.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2010 – 2012

PROJECT: THOMAS Metodos, Tecnicas y Herramientas Para Sistemas Multiagente Abiertos: Razonamiento, Comunicacion y Seguridad (Thomas Methods, Techniques And Tools For Open Multiagent Systems: Reasoning Communication And Security) TIN2006-14630-C03-03

- FUNDED BY: MCYT
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2006 – 2009

PROJECT: FUSION@ (Flexible User and Services Oriented multi-ageNt Architecture). PET2008_0036

- FUNDED BY: Ministry of Science and Innovation.. PETRI.
- PARTNERS: Tulecom Group S.L.
- PRINCIPAL RESEARCHER: Juan M. Corchado Rodríguez.
- DURATION: 01-02-2009 - 01-02-2011.
- BUDGET: 171.890,00 €.

3.6 Wireless sensor networks and Fusion of Information

The BISITE research group has ample experience in the design and implementation of Wireless Sensor Networks, as well as the design of novel fusion algorithms for the information received from the sensors. The sensor networks provide an infrastructure capable of supporting distributed communication needs, and increase the mobility, flexibility and efficiency of the users. Furthermore, they facilitate the availability of services (programs,

data, equipment, etc.) for any network team that may require them, regardless of the physical location of either the resource or the user. The control and automation devices make it possible to obtain information about the environment and to react physically, expanding user capabilities and automating daily activities.

The BISITE research group has worked closely with various business, notably Indra, Oesia, IBM, Nebusens and Wellness Telecom, all of which are dedicated, to a certain degree, to the development, implementation and marketing of wireless technologies for the creation of wireless sensor networks and information fusion.



Latest publications:

- Alonso R.S., Tapia D.I., Bajo J. and Corchado J.M. 2012. Implementing a Hardware-Embedded Reactive Agents Platform based on a Service-Oriented Architecture over Heterogeneous Wireless Sensor Networks. *Ad Hoc Networks*, In Press, doi.org/10.1016/j.adhoc.2012.04.013, ISSN: 1570-8705.
- de Paz J.F., Tapia D.I., Alonso R.S., Pinzón C.I., Bajo J. and Corchado J.M. 2012. Mitigation of the ground reflection effect in real-time locating systems based on wireless sensor networks by using artificial neural networks. *Knowledge and Information Systems, An International Journal*. DOI 10.1007/s10115-012-0479-8, ISSN: 0219-1377.
- Corchado J.M., Bajo J., Tapia D.I. and Abraham A. 2010. Using Heterogeneous Wireless Sensor Networks in a Telemonitoring System for Healthcare. *IEEE Transactions on Information Technology in Biomedicine (T-ITB)* Vol. 14, Issue 2, pp. 234-240.. ISSN: 1089-7771
- Fraile J.A., Bajo J., Corchado J.M. and Abraham A. 2010. Applying wearable solutions in dependent environments. *IEEE Transactions on Information Technology in Biomedicine* Vol. 13, Issue 6, pp. 1459-1467.
- Alonso R.S., Tapia D.I. and Corchado J.M., SYLPH: A Platform for Integrating Heterogeneous Wireless Sensor Networks in Ambient Intelligence Systems, *International Journal of Ambient Computing and Intelligence (IJACI)* In Press

Representative projects:



PROJECT: Sistema Electrónico para la Protección de Personas Maltratadas y en Situaciones de Riesgo (GUARDIÁN). (Electronic System for the Protection of Abuse Victims in High Risk Situations). IPT-430000-2010-035.

- FUNDED BY: Ministry of Science and Innovation.. Subprogram INNPACTO.
- PARTNERS: Oesía Networks, Nebusens, Universidad de Salamanca.
- PRINCIPAL RESEARCHER: Juan M. Corchado.
- DURATION 2010 – 2012.
- DESCRIPTION: This project develops a bracelet with sensor technology to detect and warn of a high risk situation for abuse victims. Sensor networks are used for indoor localization and detection, while GPRS and GPS are used for outdoors.

PROJECT: T-Sentinel. Arquitectura Multiagente para la Gestión y Supervisión de Pacientes en Centros de Dependencia. (T-Sentinel. Multiagent Architecture for the Management and Supervision of Patients in Dependent Centers). TRA2009_0096.

- FUNDED BY: Ministry of Science and Innovation.. Proyectos de Investigación Fundamental Orientada a la Transmisión de Conocimiento a la Empresa (TRACE).
- PARTNERS: Universidad Pontificia de Salamanca, Nebusens.
- PRINCIPAL RESEARCHER: Javier Bajo Pérez.
- DURATION: 2009 - 2012.
- DESCRIPTION: Develop an integral system for the management of geriatric care homes using intelligent localization techniques to improve the patients' quality of life through the integration of intelligent agents with task planning mechanisms, identification and user location technologies, wireless networks and mobile devices.

PROJECT: Arquitectura Distribuida Abierta con Tecnología de Agente para el Desarrollo de Entornos de Inteligencia Ambiental. (Open Distributed Architecture with Agent Technology for Development of Ambient Intelligence Environments) JCYL-SA071A08.

- FUNDED BY: Junta de Castilla y León.
- PARTNERS: Universidad de Salamanca.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2008-2010
- DESCRIPTION: Develop an open architecture based on agent technology which facilitates the construction of intelligent environments. The architecture defines different types of agents as well as novel communication protocols. The types of agents are defined according to the needs of an Ambient Intelligence environment.

3.7 Web 3D and Digital Animation

BISITE has experience in the development of virtual worlds through the use of platforms for the creation of massive multi-user worlds, libraries of application development in 3D, physical libraries to simulate real environments, and 3D modeling and animation software that have been applied to problems such as tracking and patient monitoring, training and

tutoring students through the web in 3D and augmenting reality in 3D websites that combine the real world with virtual images and additional information.

The group has worked with businesses in the development of virtual worlds that facilitate learning and teaching of 3D environments by recreating real environments that facilitate user interaction with the environment and other system users.



Latest publications:

- Elena García, Sara Rodríguez, Beatriz Martín and Carolina Zato. (2011). MISIA: Middleware Infrastructure to Simulate Intelligent Agents. : International Symposium on Distributed Computing and Artificial Intelligence (DCAI 2011). REFERENCIA ISBN 978-3-642-19933-2. Advances in Soft Computing Series. Vol. 91. Pág. 107-117.
- Elena García, Sara Rodríguez, Juan F. De Paz and Juan M. Corchado. (2011) Multiagent-based middleware for the agents' behavior simulation. ISCIF (Intelligent systems for context-based information fusion) within 11th International Work-Conference on Artificial Neural Networks (IWANN2011)

Representative Projects:

PROJECT: **Virtualización del patrimonio (Virtualization of heritage site)**

- FUNDED BY: Ministry of Industry, Tourism and Commerce
- PARTNERS: ENNE DIGITAL ENTERTAINMENT FACTORY
- DURATION: 2009 - 2011
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 328.500, 00 €

PROJECT: **3DMovRA: Plataforma 3D en movilidad para el guiado de personas en interiores a través de Realidad Aumentada. (3DMovRA: Mobile 3D Platform for guiding persons indoors using Enhanced Reality)**

- REFERENCE: IPT-2011-0726-430000
From 2012 tp 2014
- FUNDED BY: Ministry of Economy and Competitiveness. Subprogram INNPACTO
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
Total: 197.104,40 €



PROJECT: Cátedra en tecnologías accesibles: Movi-Mas. Plataforma Multiagente Para La Integración Laboral De Discapacitados Móviles (Collaboration effort in accesible technologies: Movi-Mas. Multiagent Platform For The Integration Of Persons With Mobility Impairments Into The Workforce)

- FUNDED BY: Fundación Addeco - Indra.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DATE: 2011.
- BUDGET: 50.000,00 €

PROJECT: ECP: ENNE COMMUNITY PLATFORM TSI-020100-2008-136

- FUNDED BY: ECP: ENNE COMMUNITY PLATFORM TSI-020100-2008-136
- PARTNERS: ENNE DIGITAL ENTERTAINMENT FACTORY
- DURATION: 2008
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 789.000,00

PROJECT: Innovación tecnológica y arte digital: investigación en modelos y técnicas. infraestructura y tecnología. (Technological Innovation And Digital Art: Research In Models And Techniques, Infrastructure And Technology)

- FUNDED BY: GPM Digital Entertainment Factory S.L.
- DURATION: 2007 - 2008
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 567.296,00 €

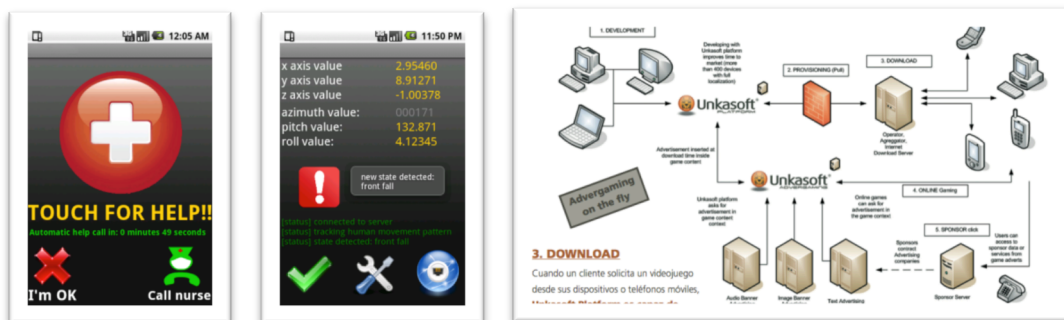
3.8 Information security

BISITE has conducted research in the field of security, focusing on the problem of SPAM mail and relational database security against SQL injections. BISITE is currently developing an architecture based on specialized agents for the capture and classification of SOAP message employed in the process of communicating with web services in distributed environments. SOAP messages can be used to launch service denial attacks (DoS) and cause a blockage of the services and resources available to authorized users. The technologies applied in the research field are focused on the area of Artificial Intelligence combined with traditional approaches. The applied techniques of Artificial Intelligence include:

- Agent and Multiagent System Technology.
- Case-Based Reasoning (CBR) Systems.
- Artificial Neural Networks.
- Decision trees.

Specifically, these technologies have been applied to solve problems such as:

- Classification and detection of SQL injection attacks within the queries of Relational Databases.
- Classification and detection of Denial of Service attacks in exchanged messages in Web Services environments.
- Distribution of complex tasks arising from the classification process, within available resources.
- Development of a classification mechanism to learn and have the ability to adapt to rapid changes in attack patterns



Latest publications:

- Bajo, J.; Corchado, J. M.; Pinzón, C. I.; Paz, Y. D. & Pérez-Lancho, B. (2010), SCMAS: A Distributed Hierarchical Multi-Agent Architecture for Blocking Attacks to Databases. International Journal of Innovative Computing, Information and Control. 6(9) (2010) 3787- 3818.
- Pinzón C., De Paz J.F., Herrero A., Corchado E., Bajo J. and Corchado J.M., idMAS-SQL: Intrusion Detection Based on MAS to detect and Block SQL Injection through Data Mining, Information Sciences, In Press
- Pinzón C., Bajo J, De Paz J.F. and Corchado J.M., S-MAS: An Adaptive Hierarchical Distributed Multiagent Architecture for Blocking Malicious SOAP Messages within Web Services Environments. Expert Systems with Applications. 38, 5486-5499 (2011)
- Pinzón C., De Paz J.F., Navarro M., Bajo J., Julián V. and Corchado J.M., Real-Time CBR-Agent with a Mixture of Experts in the Reuse Stage to Classify and Detect DoS Attacks. Applied Soft Computing. Special Issue On Softcomputing For Information Security 11(7) (2011) 4384-4398
- Juan F. De Paz, Martí Navarro, Cristian I. Pinzón, Vicente Julián, Dante I. Tapia, Javier Bajo, Mathematical model for a temporal-bounded classifier in security environments, Logic Journal of the IGPL. In press
- Méndez J. R. ,Glez-Peña D. , Díaz F. and Corchado J. M., Managing Irrelevant Knowledge in CBR Models for Unsolicited Email Classification. Expert System with Applications 36 (2) (2009) 1601-1614.
- Herrero Cosio, Álvaro; Corchado Rodríguez, Emilio Santiago; Pellicer, M.A.; Ajitn, Abraham. MOVIH-IDS: A Mobile-Visualization Hybrid Intrusion Detection System. Neurocomputing. (2009) 72 (13-15) 2775-2784



- Martí Navarro, Juan F. De Paz, Vicente Julián, Sara Rodríguez, Javier Bajo, Juan M. Corchado. Temporal Bounded Reasoning in a Dynamic Case Based Planning Agent for Industrial Environments. Expert Systems with Applications. 39 (9) (2012) 7887-7894.

Representative Projects:

PROJECT: SQLCBR: Herramienta dotada con inteligencia artificial para la detección y prevención de ataques de inyección SQL. (Tools equipped with artificial intelligence to detect and prevent SQL injection attacks)

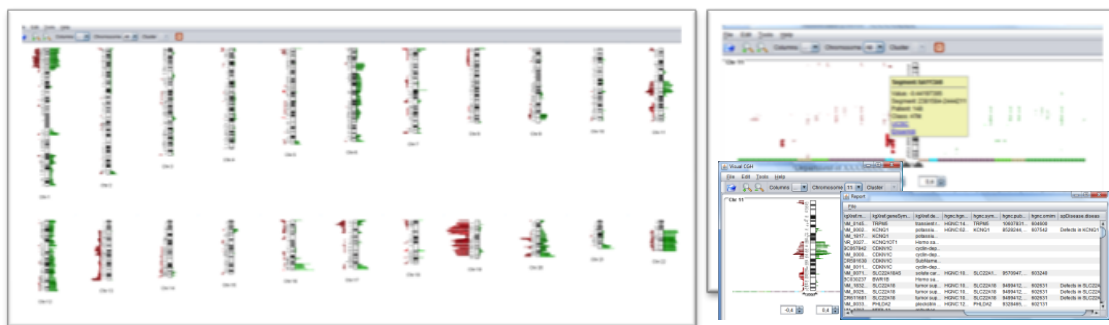
- FUNDED BY: Ministry of Industry, Tourism and Commerce
- PARTNERS: Universidad Pontificia de Salamanca y Flag Solutions
- PRINCIPAL RESEARCHER: Juan M. Corchado
- DURATION: 2008

3.9 Bioinformatics

The research group has experience in the study of microarrays from patients with various pathologies. There have been studies at the genetic and chromosomal level through expression arrays, array CGH (Comparative Genomic Hybridization) and sequencing analysis. Specifically, the team has used expression arrays corresponding to chips such as exon arrays, HG U133 plus 2.0, Affymetrix U95Av2 and BAC clones of CGH, and sequencing analysis with technology of Roche. The studies include:

- Pathology diagnosis
- Prediction of diseases
- Analysis of genes and proteins relevant to determining pathologies.

To perform the classifications, selection of characteristics, and other tasks, various data mining techniques were applied to filter information, dimensionality reduction, grouping, classification and extraction of knowledge from the results.



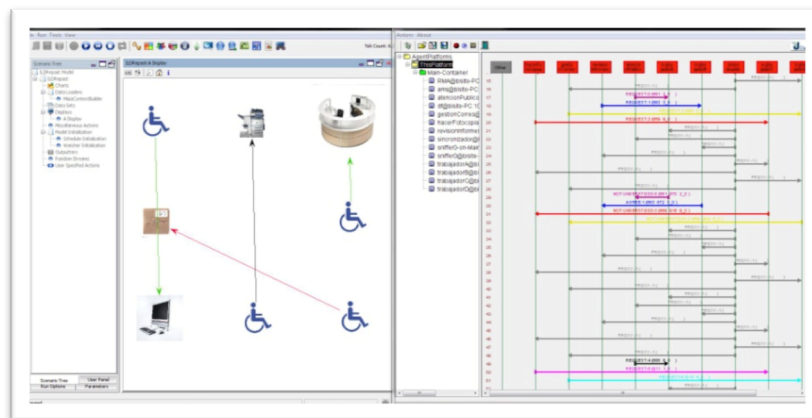
Latest publications:

- Glez-Pena D., Diaz F., Hernandez J.M., Corchado J.M. and Fdez-Riverola F. (2009) geneCBR: a translational tool for multiple-microarray analysis and integrative information retrieval for aiding diagnosis in cancer research. BMC Bioinformatics. 10 (187) In Press. ISSN: 1471-2105.

- De Paz J.F., Rodríguez S., Bajo J. and Corchado J.M. (2009) Case-based reasoning as a decision support system for cancer diagnosis: A case study. *International Journal of Hybrid Intelligent Systems* 6. IOS Press. 6 (2) 97-110. ISSN: 1448-5869.
- Corchado J.M., De Paz J.F., Rodríguez S and Bajo J. (2009) Model of experts for decision support in the diagnosis of leukemia patients. *Artificial Intelligence in Medicine*. 46 (3) 179-200. ISSN: 0933-3657.
- Riverola F., Díaz F. y Corchado J. M. (2006) Gene-CBR: a case-based reasoning tool for cancer diagnosis using microarray datasets. *Computational Intelligence*. 22 (3-4) 254-268. ISSN: 0824-7935.
- Juan F. De Paz, Javier Bajo, Vicente Vera and Juan M. Corchado. MicroCBR: A Case-based reasoning architecture for the classification of microarray data. *Applied Soft Computing*. 11 (2011) 4496-4507.

3.10 Human-agent Interaction (HAS)

Humans are working increasingly more (directly or indirectly) or more closely connected to computer entities (agents) that are capable of acting autonomously and intelligently. More specifically, human beings and these agents are capable of establishing a series of collaborative relationships/interactions between them, forming what we could refer to as human-agent teams, in order to meet their individual and/or collective objectives within a social organization or structure.



Latest publications:

- Rodríguez S., de Paz Y., Bajo J. and Corchado J.M. 2011. Social-based Planning Model for Multi-agent Systems. *Expert Systems with Applications*, Vol. 38 (10), pp. 13005-13023.
- Rodríguez S., Julián V., Bajo J., Carrascosa C., Botti V. and Corchado J.M. 2011. Agent Based Virtual Organization Architecture. *Engineering Applications of Artificial Intelligence* Vol. 24 (5), pp.895-910.
- Bajo J., Fraile J.A., Pérez-Lancho B. and Corchado J.M. 2010. The THOMAS Architecture in Home Care Scenarios: A case study. *Expert Systems with Applications* Vol. 37, Issue 5, pp. 3986-3999.



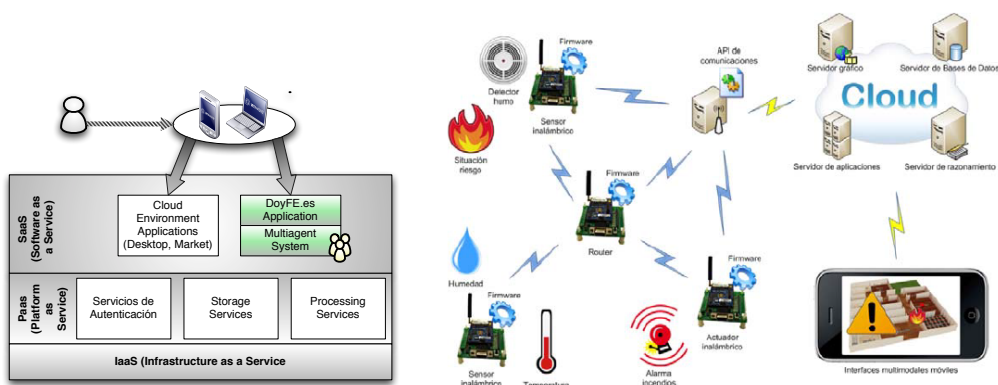
Representative projects:

PROJECT: **Sociedades Humano-Agente: Inmersión, Adaptación y Simulación. (Human-Agent Societies: Immersion, Adaptation and Simulation). TIN2012-36586-C03-03.**

- FUNDED BY: Ministerio de Ciencia e Innovación. Ministry of Science and Innovation.
- PARTNERS: Universidad Politécnica de Valencia, Universidad de Salamanca, Universidad Rey Juan Carlos.
- PRINCIPAL RESEARCHER: Juan M. Corchado.
- DURATION 2013 – 2016.
- DESCRIPTION: The proposed work aims to understand what is necessary to understand and design for humans to interact with software agents and how these interactions should be structured for software products that are effective.

3.11 Cloud Computing, Distributed systems

Los sistemas distribuidos y la computación en la nube han revolucionado los sistemas tradicionales de comunicación y computación. El grupo BISITE tiene experiencia en Inteligencia Artificial distribuida, que aúna los conceptos de dos campos de conocimiento : la Inteligencia Artificial y los Sistemas Distribuidos. El campo de La Inteligencia Artificial (IA) intenta comprender las entidades inteligentes. Además, se centra en la investigación en el ámbito del Cloud Computing. Los tres ejes fundamentales que se han estudiado en el grupo son: los Sistemas Multiagente, la Resolución Distribuida de Problemas y los sistemas de computación en la nube. Distributed systems and cloud computing have revolutionized traditional systems of communication and computing. The BISITE group has experience in distributed Artificial Intelligence, which joins concepts from two fields of knowledge: Artificial Intelligence and Distributed Systems. The field of Artificial Ingelligence (IA) attempts to understand intelligent entities. Additionally, it focuses on research in the field of Cloud Computing. The three fundamental points at the core of the group's research are: Multiagent Systems, Distributed Resolution of Problems, and cloud computing systems. The basic problems studied within DAI. In line with this study, the team has worked on research projects in collaboration with companies such as INSA-IBM, among others.



Latest publications:

- Uden L., Herrera F., Bajo J. and Corchado J.M. (Eds.). 2012. Seventh International KMO Conference on knowledge management, Services and cloud computing. ISBN: 978-3-642-30866-6. Advances in Intelligent and Soft Computing Series, Vol 172.
- Tapia D.I., Alonso R.S., García O., Villarrubia G., de la Prieta F. and García E. 2012. A novel model of argumentation for Cloud Computing paradigm. IBERAMIA 2012. ISCIF 2012. In Press.
- Bajo J., Zato C., de la Prieta F., de Luis A., Tapia D.. 2011. Cloud Computing in Bioinformatics. Distributed Computing and Artificial Intelligence. 7th International Symposium, ISBN: 978-3-642-14882-8, Vol: 79, pp. 147-156. ISSN: 1867-5662.

Representative projects:

PROJECT: Cloud-IO (Plataforma cloud computing para la integración y despliegue rápido de servicios sobre redes inalámbricas de sensores). (Cloud computing platform for the rapid integration and deployment of services over wireless sensor networks).

- FUNDED BY: CDTI.
- PARTNERS: Universidad de Salamanca, INSA-IBM, Nebusens, Juan Llorens, Divisa IT.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: desde: 2011 hasta: 2013.
- DESCRIPTION: The objective of this project is to develop an architecture based on multiagent technology which facilitates the construction of adaptable cloud computing systems that are capable of evolving dynamically.

PROJECT: ABANSA: Arquitectura distribuida abierta con tecnología de agente para procesamientos pesados. (Distributed open architecture with agent technology for heavy processing) TSI-020100-2008-276.

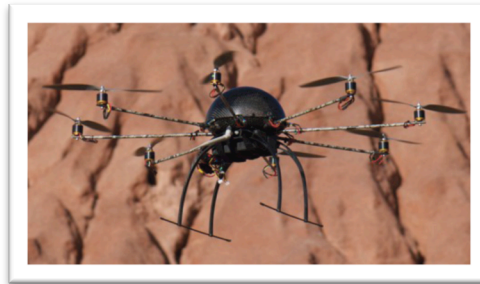
- FUNDED BY: Ministry of Industry, Tourism and Commerce, Avanza I+D.
- PARTNERS: Universidad de Salamanca, ENNE DIGITAL ENTERTAINMENT FACTORY.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2008.
- DESCRIPTION: This is an industrial research project that intends to use the existing synergy between the ENNE and the BISITE research group to build a strong tool of computer technology: a system to build large intelligent distributed computer systems capable of working and analyzing heterogeneous and distributed databases, and analyzing enormous quantities of information with a high level of autonomy. It will be able to manage all types of data, regardless of their magnitude and dimension: biotechnology, genomics, virtual worlds, simultaneous access of a large number of users, etc.

3.12 Unmanned Aerial or terrestrial Vehicles

The scientific challenge in the design and control of Unmanned Aerial Vehicles (UAV) in cluttered environments and the lack of existing solutions are very motivating. In this research line, the interest stems not only from their dynamics, which represent an attractive



control problem, but also from the design issue. Integrating the sensors, actuators and intelligence into monitoring systems with a decent operation time is not trivial.



Latest publications:

- Carlos Bernabéu, Juan M. Corchado, Sara Rodríguez and Pablo Chamoso. *VTOL Multi-rotor for Remote Monitoring and Surveillance* (2011) Prediction and Recognition of Piracy Efforts Using Collaborative Human-Centric Information Systems organized under the frame of Advanced Study Institute (ASI) of the section Science for Peace and Security (SPS) of the North Atlantic Treaty Organization (NATO)

PROJECT: **ARACNOCÓPTERO: Vehículo no tripulado para el monitoreo y el radio-seguimiento remoto (Unmanned vehicle for remote monitoring and radio tracking)**

- FUNDED BY: ADE.
- PARTNERS: USAL, Arbórea
- DURATION: 2011-2012
- PRINCIPAL RESEARCHER: . Juan Manuel Corchado Rodríguez (USAL)
- BUDGET: 150.000,00 Euros

PROJECT: **Sistema Inteligente de Control Empresarial (Intelligent Control System Business) SEC2000-0249.**

- FUNDED BY: CICYT.
- DURATION: 2000 - 2003
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 11.205.600 pts.

PROJECT: Advergaming On The Fly. FIT-350200-2007-12

- FUNDED BY: Ministerio de Industria Turismo y Comercio, PROFIT
- PARTNERS: BABELDREAMS, S.L.
- DURATION: 2007
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 22.000,00 €

4 R&D Projects

4.1 International Projects

PROJECT: EKRUCAmI— Europe-Korea Research on Ubiquitous Computing and Ambient Intelligence

- FUNDED BY: FP7-PEOPLE-2012-IRSES. Marie Curie Actions— International Research Staff Exchange Scheme (IRSES)
- DURATION: 2013 - 2017
- PRINCIPAL RESEARCHER: Carlos Ramos. Instituto Politecnico do Porto
- USAL PRINCIPAL RESEARCHER: Juan Manuel Corchado
- BUDGET: 210,000.00 € (84,000.00 € para la USAL).

PROJECT: TERENCE: An Adaptive Learning System for Reasoning about Stories with Poor Comprehenders and their Educators

- FUNDED BY: Call 5 del 7º Programa Marco de la Comisión Europea
- DURATION: 2010 - 2013
- PRINCIPAL RESEARCHER: Giovanni de Gasperis, Università degli Studi dell'Aquila
- USAL PRINCIPAL RESEARCHER: Juan Manuel Corchado
- BUDGET: 2.255.000,00 € (231.336,00 € para la USAL).

PROJECT: Crisis Project

- FUNDED BY: Programa Leonardo Da Vinci de la Comisión Europea
- DURATION: 2007 - 2009
- PRINCIPAL RESEARCHER: Juan Manuel Corchado
- BUDGET: 235.000,00 €

PROJECT: Iron Time: Innovative Re-Organization and Networking for Telecom. Industry Médium Enterprises.

- FUNDED BY: Programa Marco del Fondo Social Europeo.
- DURATION: 2005 - 2007
- PRINCIPAL RESEARCHER: D. Labate, URMET Telecomunicazioni S.p.A.
- USAL PRINCIPAL RESEARCHER: Juan Manuel Corchado
- BUDGET: 230.000,00 €

PROJECT: The Atlantic Meridional Transect.

- FUNDED BY: UK Natural Environment Council.
- DURATION: 1995 - 2005
- PRINCIPAL RESEARCHER: J. Aiken, Plymouth Marine Laboratory. Plymouth (UK).
- BUDGET: £22.000.000,00

PROJECT: Simulated Tactical Enviromental Bubble (STEB).

- FUNDED BY: UK Natural Environment Council.
- DURATION: 1996 - 2001



- PRINCIPAL RESEARCHER: J. Aiken, Plymouth Marine Laboratory. Plymouth (UK).
- BUDGET: £2.500.000,00

PROJECT: KBOS, Knowledge Based Oceanographic System.

- FUNDED BY: UK Natural Environment Council.
- DURACION desde: 1993 TO 1996
- PRINCIPAL RESEARCHER: J. Aiken, Plymouth Marine Laboratory. Plymouth (UK).
- BUDGET: £2.500.000,00

4.2 National Projects

PROJECT: Sociedades Humano-Agente: Inmersión, Adaptación y Simulación. (Human-Agent Societies: Immersion, Adaptation and Simulation). TIN2012-36586-C03-03.

- FUNDED BY: Ministerio de Ciencia e Innovación. Ministry of Science and Innovation.
- PARTNERS: Universidad Politécnica de Valencia, Universidad de Salamanca, Universidad Rey Juan Carlos.
- PRINCIPAL RESEARCHER: Juan M. Corchado.
- DURATION 2013 – 2016.
- DESCRIPTION: The proposed work aims to understand what is necessary to understand and design for humans to interact with software agents and how these interactions should be structured for software products that are effective.

PROJECT: Cloud-IO: Plataforma cloud computing para la integración y despliegue rápido de servicios sobre redes inalámbricas de sensores. (Cloud computing platform for the rapid integration and deployment of services over wireless sensor networks).

- FUNDED BY: CDTI.
- PARTNERS: Universidad de Salamanca, INSA-IBM, Nebusens, Juan Llorens, Divisa IT.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: desde: 2011 hasta: 2013.
- DESCRIPTION: The objective of this project is to develop an architecture based on multiagent technology which facilitates the construction of adaptable cloud computing systems that are capable of evolving dynamically.

PROJECT: 3DMovRA: Plataforma 3D en movilidad para el guiado de personas en interiores a través de Realidad Aumentada. (3DMovRA: Mobile 3D Platform for guiding persons indoors using Enhanced Reality).

- REFERENCE: IPT-2011-0726-430000
From 2012 to 2014
- FUNDED BY: Ministry of Economy and Competitiveness. Subprogram INNPACTO
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
Total: 197.104,40 €

PROJECT: Ambientes Inteligentes con Tecnología Accesible para el Trabajo (AZTECA). (Intelligent Environments with Accessible Technology for Work) IDI-20110343).

- FUNDED BY: CDTI. Proyecto de Cooperación Interempresas.
- PARTNERS: INDRA
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2011 - 2013
- BUDGET: 235.000,00 €

PROJECT: AemA: Aprendizaje emocional adaptado mediante juegos serios. (Emotional learning adapted by serious games). TSI-020100-2010-180.

- FUNDED BY: CDTI. Proyecto de Cooperación Interempresas



- PARTNERS: GPM DIGITAL ENTERTAINMET FACTORY SL
- DURATION: 2010
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 121.538,88 €

PROJECT: **Magnesium New Technological Opportunities (MAGNO).**

- FUNDED BY: Ministerio de Ciencia e Innovación - Centro para el Desarrollo Tecnológico Industrial (CDTI) - Programa "Consortios Estratégicos Nacionales en Investigación Técnica" (CENIT)
- DURATION: 2008 - 2011
- PRINCIPAL RESEARCHER: Emilio S. Corchado Rodríguez
- BUDGET: 155.000,00 €

PROJECT: **GUARDIÁN: Sistema Electrónico para la Protección de Personas Maltratadas y en Situaciones de Riesgo. (Electronic System for Protection of mistreated Persons or at risk).**

- FUNDED BY: Ministerio de Ciencia e Innovación. Subprograma INNPACTO. IPT-430000-2010-035.
- PARTNERS: Oesía Networks, Nebusens, University of Salamanca.
- PRINCIPAL RESEARCHER: Juan M. Corchado.
- FROM: 01-06-2010 TO 01-07-2012.
- BUDGET: 1.109.854,00 €.

PROJECT: **OVAMAH: Organizaciones Virtuales Adaptativas: Mecanismos, Arquitecturas y Herramientas. (Virtual Adaptive Organizations: Mechanisms, Architectures and Tools). TIN 2009-13839-C03-03.**

- FUNDED BY: Ministerio de Ciencia e Innovación. Proyectos de Investigación Fundamental No Orientada
- DURATION: 2010 - 2012
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 259.500,00 €

PROJECT: **SIMPLY GO!**

- FUNDED BY: Centro para el Desarrollo Tecnológico Industrial (CDTI)
- PARTNERS: GESTIONES DE PROYECTOS MULTIMEDIA S.L. (GPM)
- DURATION: 2009 - 2012
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 702.641,00 €

PROJECT: **Health Watch.**

- FUNDED BY: ADE I+D.
- PARTNERS: Gerionte Technology.
- DURATION: 2009 - 2010
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 120.000,00 €

PROJECT: T-Sentinel: Arquitectura Multiagente para la Gestión y Supervisión de Pacientes en Centros de Dependencia. (T-Sentinel. Multiagent Architecture for the Management and Supervision of Patients in Dependent Centers). TRA2009_0096.

- FUNDED BY: Ministerio de Ciencia e Innovación. Proyectos de Investigación Fundamental Orientada a la Transmisión de Conocimiento a la Empresa (TRACE).
- PARTNERS: Nebusens S.L.
- PRINCIPAL RESEARCHER: Javier Bajo Pérez.
- DURATION: 01-01-2010 TO 31-12-2012.
- BUDGET: 123.879,80 €.

PROJECT: Virtualización del patrimonio. (Virtualization of heritage site).

- FUNDED BY: Ministerio de Industria, Turismo y Comercio
- PARTNERS: ENNE DIGITAL ENTERTAINMENT FACTORY
- DURATION: 2009 - 2011
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 328.500,00 €

PROJECT: Modelo Inteligente de Análisis y Simulación de Procesos Industriales: Toma de Decisiones y Control de Procesos. (Intelligent Pattern Analysis and Simulation Process: Decision Making and Process Control). TIN2010-21272-C02-01.

- FUNDED BY: Ministerio de Ciencia e Innovación. Proyectos de Investigación Fundamental No Orientada
- DURATION: 2010 - 2012
- PRINCIPAL RESEARCHER: Emilio Corchado Rodríguez.
- BUDGET: 30.400,00 €

PROJECT: ABANSA: Arquitectura distribuida abierta con tecnología de agente para procesamientos pesados. (Distributed open architecture with agent technology for heavy processing). TSI-020100-2008-276.

- FUNDED BY: Ministerio de Industria Turismo y Comercio, Avanza I+D
- PARTNERS: ENNE DIGITAL ENTERTAINMENT FACTORY
- DURATION: 2008 - 2011
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 491.000,00 €

PROJECT: ECP: ENNE COMMUNITY PLATFORM TSI-020100-2008-136

- FUNDED BY: ECP: ENNE COMMUNITY PLATFORM TSI-020100-2008-136
- PARTNERS: ENNE DIGITAL ENTERTAINMENT FACTORY
- DURATION: 2008 - 2011
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 789.000,00 €



TITLE: FOEHN: Desarrollo de un Sistema Inteligente Híbrido para optimizar la interacción máquina-proceso en los procesos productivos orientados al sector eólico y de transporte. (Development of a Hybrid Intelligent System for optimizing interaction process machine-oriented production processes and transport wind sector).

- FUNDED BY: Ministerio de Ciencia e Innovación
- PARTNERS: NICOLÁS CORREA S.A., FUNDACIÓN FATRONIK TECNALIA, UNIVERSIDAD DE BURGOS
- DURATION: 2009 - 2011
- PRINCIPAL RESEARCHER: Emilio Santiago Corchado Rodríguez.
- BUDGET: 11.700,00 €

PROJECT: QUICK: Desarrollo de un Sistema Experto para el Ajuste Automático de Fresadoras. (Development of an Expert System for Automatic Milling Set). CIT_020000-2008-2.

- FUNDED BY: Ministerio de Ciencia e Innovación Exp.
- PARTNERS: Nicolás Correa SA, Fundación Fatronik, Universidad de Burgos
- DURATION: 2008 – 2010
- PRINCIPAL RESEARCHER: Emilio Santiago Corchado Rodríguez
- BUDGET: 152.865 € de ellos 40.698 €, son para la Universidad de Burgos.-GICAP

PROJECT: FUSION@ (Flexible User and Services Oriented multi-ageNt Architecture). PET2008_0036.

- FUNDED BY: Ministerio de Educación y Ciencia. PETRI.
- PARTNERS: Tulecom Group S.L.
- PRINCIPAL RESEARCHER: Juan M. Corchado Rodríguez.
- DURATION: 01-02-2009 - 01-02-2011.
- BUDGET: 171.890,00 €.

PROJECT: THOMAS: Metodos, Tecnicas Y Herramientas Para Sistemas Multiagente Abiertos: Razonamiento, Comunicacion Y Seguridad. (Methods, Techniques And Tools For Open Multiagent Systems: Reasoning Communication And Security). TIN2006-14630-C03-03.

- FUNDED BY: MCYT.
- DURATION: 2006 - 2009
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 128.260,00 €

PROJECT: SIAAD: Sistema Integral Inteligente de Asistencia en el Ambito de la Dependencia. TSI-020100-2008-307. (Integral Intelligent Support System In A Dependent Environment).

- FUNDED BY: Ministerio de Industria Turismo y Comercio, Avanza I+D
- PARTNERS: GESTORES DE PROYECTOS MULTIMEDIA, S.L.
- DURATION: 2008
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.

- BUDGET: 268.000,00 €

PROJECT: Plataforma Inteligente para la Gestión Integral de Residencias Geriátricas. (Intelligent Platform for Geriatric Residences Management). 137/07.

- FUNDED BY: Ministerio de Trabajo y Asuntos Sociales, IMSERSO
- DURATION: 2007 - 2008
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 35.000,00 €

PROJECT: ALIADO (Alzheimer Intelligent Ambient Domotic system). FIT-350300-2007-84

- FUNDED BY: Ministerio de Industria Turismo y Comercio, PROFIT
- PARTNERS: TULECOM GROUP
- DURATION: 2007
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 96.000,00 €

PROJECT: Advergaming On The Fly. FIT-350200-2007-12

- FUNDED BY: Ministerio de Industria Turismo y Comercio, PROFIT
- PARTNERS: BABELDREAMS, S.L.
- DURATION: 2007
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 22.000,00 €

PROJECT: Desarrollo de Sistemas Distribuidos con Dispositivos Inalámbricos para Entornos Dinámicos con Tecnología de Agente. (Development of distributed systems with wireless devices for dynamic environments with Agent Technology).

- FUNDED BY: MINISTERIO DE CIENCIA Y TECNOLOGIA
- DURATION: 2004 - 2007
- PRINCIPAL RESEARCHER: Emilio Santiago Corchado Rodríguez.
- BUDGET: 72.000,00 €

PROJECT: Integración de Comunicación Inalámbrica en una Arquitectura Multiagente. (Wireless Communication Integration in a Multiagent Architecture). TIC2003-07369-C02-02.

- FUNDED BY: MCYT.
- DURATION: 2003 - 2006
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 113.160,00 €

PROJECT: Detección, Seguimiento y Predicción de Vertidos Conteniendo Hidrocarburos en Aguas Oceánicas Utilizando Teledetección y Sistemas de Inteligencia Artificial. (Detection, Monitoring and Prediction of Discharges Containing Hydrocarbons in Ocean Water Using Remote Sensing and Artificial Intelligence Systems). VEM2003-20578-C08-03.

- FUNDED BY: MCYT.



- DURACION desde: 19-12-2003 TO 18-12-2006
- PRINCIPAL RESEARCHER: Jesús Torres, Universidad de Vigo.
- BUDGET: 98.210,00 €

PROJECT: Sistema Inteligente de Control Empresarial. (Intelligent Control System Business). SEC2000-0249.

- FUNDED BY: CICYT.
- DURATION: 2000 - 2003
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 11.205.600 pts.

PROJECT: Biblioteca Virtual de Textos Españoles del Siglo de Oro accesible vía Internet. (Virtual Library of Texts Spanish Golden Age accessible via Internet). CICYT- TEL99-0335-C04-03.

- FUNDED BY: CICYT.
- DURATION: 1999 - 2002
- PRINCIPAL RESEARCHER: Pedro Cuesta, Universidad de Vigo.
- BUDGET: 10.500.000 pts.

4.3 Regional Projects

PROJECT: ARACNOCÓPTERO: Vehículo no tripulado para el monitoreo y el radio-seguimiento remoto. (Unmanned vehicle for remote monitoring and radio tracking).

- FUNDED BY: ADE.
- PARTNERS: USAL, Arbórea
- DURATION: 2011-2012
- PRINCIPAL RESEARCHER: . Juan Manuel Corchado Rodríguez (USAL)
- BUDGET: 150.000,00 Euros

PROJECT: Sistema de enseñanza de idiomas y evaluación del aprendizaje para personas de edad avanzada a través de dispositivos móviles. (System language teaching and learning assessment for older people through mobile devices). PON147A11-2.

- FUNDED BY: Junta de Castilla y León. Programa de Apoyo a Proyectos de Investigación, a iniciar en 2011
- PARTNERS: ICN-Artea, University of Salamanca.
- FROM: 01-01-2011 TO 31-12-2012
- PRINCIPAL RESEARCHER: Javier Bajo Pérez.
- BUDGET: 12.000 €.

PROJECT: Simulación social basada en agentes para la inserción laboral de discapacitados. (Agent-based social simulation to the employment of disabled persons). SA225A11-2

- FUNDED BY: Junta de Castilla y León. Programa de Apoyo a Proyectos de Investigación, a iniciar en 2011
- PARTNERS: ICN-Artea, University of Salamanca.
- FROM: 01-01-2011 TO 31-12-2012
- PRINCIPAL RESEARCHER: Juan M. Corchado
- BUDGET: 30.000 €.

PROJECT: PAEXTUR: Plataforma para la codificación y análisis de indicadores sobre la experiencia turística. (Platform for the codification and analysis of indicators for the tourist experience). O22/10/SA/0009.

- FUNDED BY: Junta de Castilla y León. ADE. O22/10/SA/0009
- PARTNERS: ICN-Artea, University of Salamanca.
- FROM: 01-06-2010 TO 01-07-2011
- PRINCIPAL RESEARCHER: Juan M. Corchado.
- BUDGET: 82.440,00 €.

TITLE: Arquitectura Distribuida Abierta con Tecnología de Agente para el Desarrollo de Entornos de Inteligencia Ambiental. (Open Distributed Architecture with Agent Technology for Development of Ambient Intelligence Environments). JCYL-2008-10. Ref. SA071A08.

- FUNDED BY: Junta de Castilla y León.
- DURACION desde: 2008 TO 2010
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 12.600,00 €



TITLE: Arquitectura Distribuida Inteligente para la Gestión de Entornos de Dependencia y Hospitalarios. (Intelligent Distributed Architecture for Management of Dependence and Hospital Environments).

- FUNDED BY: Junta de Castilla y León. Programa de Apoyo a Proyectos de Investigación
- DURACION desde: 2008 TO 2010
- PRINCIPAL RESEARCHER: Emilio Santiago Corchado Rodríguez.
- BUDGET: 11.700,00 €

TITLE: Plataforma Inteligente para la Gestión y Aprendizaje en Residencias Geriátricas. Ref. UPSA. (Intelligent Platform for Management and Learning in Geriatric Residence). U05E1A-07L01.

- FUNDED BY: Proyectos de Investigación Precompetitivos. Universidad Pontificia de Salamanca.
- DURATION: 2008
- PRINCIPAL RESEARCHER: Javier Bajo Pérez.
- BUDGET: 2.000,00 €

TITLE: Desarrollo de Aplicaciones Autonomas Para Dispositivos Inalambricos Basadas En Tecnologia De Agente. (Development of Autonomous Applications for Wireless Devices based on Agent Technology). BU008B05.

- FUNDED BY: Junta de Castilla y León.
- DURATION: 2005 - 2007
- PRINCIPAL RESEARCHER: Emilio Santiago Corchado Rodríguez.
- BUDGET: 11.400,00 €

TITLE: Arquitectura Multiagente para la construcción de sistemas inalámbricos distribuidos aplicados en procesos de control. (Multiagent Architecture for the construction of wireless distributed systems in control processes). JCYL-2002-05. Ref. SA104A05.

- FUNDED BY: Junta de Castilla y León.
- DURATION: 2004 - 2007
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 23.000,00 €

TITLE: Sistema multiagente para la gestión y procesamiento de conocimiento digital. (Multiagent system to manage and process of digital knowledge). JCYL-2002-05. Ref. SA039/02.

- FUNDED BY: Junta de Castilla y León.
- DURATION: 2001 - 2003
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 11.381,00 €

TITLE: Sistema predictivo de esfuerzos pesqueros para la flota artesana gallega. (Prediction system of fishing efforts for the artisan fleet of Galicia). PGIDIT02RMA00702CT.

- FUNDED BY: Programa de Investigación Marino, Xunta de Galicia.
- DURATION: 2002 - 2005
- PRINCIPAL RESEARCHER: Jesús Torres, Universidad de Vigo.
- BUDGET: 34.000,00 €

TITLE: Desarrollo de técnicas para la predicción automática de la proliferación de la diatomea Pseudo-nitzschia spp. en las Rías Gallegas. (Development of techniques for the automated prediction of the proliferation of Pseudo-nitzschia spp in Galician Estuaries). PGIDIT00MAR30104PR.

- FUNDED BY: Programa de Investigación Marino, Xunta de Galicia.
- DURATION: 1999 - 2001
- PRINCIPAL RESEARCHER: Jesús Torres, Universidad de Vigo.
- BUDGET: 5.990.000 pts.

TITLE: Modelado de las alteraciones neuroendocrinológicas inducidas por la ingesta dietética de plomo utilizando sistemas de inteligencia artificial. (Model of neuroendocrinological alterations induced by the oral ingestion of lead using artificial intelligence systems). PGIDIT00MAR30104PR.

- FUNDED BY: Universidad de Vigo
- DURATION: 2000
- PRINCIPAL RESEARCHER: María A. Lafuente - Universidad de Vigo.
- BUDGET: 900.000 pts.



4.4 Projects in collobartion with private entities

PROJECT: Cátedra en tecnologías accesibles: Movi-Mas. Plataforma Multiagente Para La Integración Laboral De Discapacitados Móviles (Collaboration effort in accesible technologies: Movi-Mas. Multiagent Platform For The Integration Of Persons With Mobility Impairments Into The Workforce).

- FUNDED BY: Fundación Addeco - Indra.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DATE: 2011.
- BUDGED: 50.000,00 €

PROJECT: El Mayor Digital. (Extending Day Care to the Home)

- FUNDED BY: LIMCASA,
- DURACION DESDE: 01-01-2010 TO 31-12-2012.
- PRINCIPAL RESEARCHER: Juan M. Corchado.
- BUDGET: 340.000 €.

PROJECT: Framework para la inserción de publicidad dirigida en descarga de juegos para móviles. (Framework for the insertion of direct advertising during game downloads for mobiles).

- FUNDED BY: Babeldreams, S.L. (Unkasoft)
- DURATION: 2010-11
- PRINCIPAL RESEARCHER: Juan Manuel. Corchado Rodríguez
- BUDGET: 130.000,00 € + IVA

PROJECT: Evaluación Técnica de Proyectos. (Technical Evaluation of Projects).

- FUNDED BY: Agencia de Certificación e Innovación Española (ACIE)
- DURATION: 2010
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: Porcentual

PROJECT: Investigación y desarrollo.de algoritmos de inteligencia artificial para clasificación de variables orientadas a aplicaciones de tecnología de deformación incremental. (Research and development of artificial intelligence algorithms to classify variables oriented to applications for incremental deformation technology).

- FUNDED BY: Intituto Tecnológico de Castilla y León (ITCL)
- DURATION: 2010-2012
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 10.050,00 € + IVA

PROJECT: Desarrollo de un sistema de inteligencia ambiental dinámico. (Development of a dynamic ambient intelligence system).

- FUNDED BY: Tulecom Group, S.L.
- DURATION: 2009-10

- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 122.600,00 € + IVA

PROJECT: Asesoramiento general e identificación de base tecnológica para los proyectos de colaboración entre la A.E.I. para el Experiential Marketing y el Bisite. (General assessment and identification of technology base for collaborative projects between A.E.I. for Experiential Marketing and BISITE).

- FUNDED BY: Asociación Activa
- DURATION: 2009
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 93.431,04 € + IVA

PROJECT: Desarrollo de un modelo inteligente para la gestión de crisis empresariales, implantación de éste en 18 empresas y presentación del proyecto. (Development of an intelligent model for business crisis management, its establishment in 18 businesses, and presentation of the project).

- FUNDED BY: Fundación General de la University of Salamanca
- DURATION: 2009-2010
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 90.000,00 € + IVA

PROJECT: Consultoría, soporte y desarrollo de un prototipo funcional basado en Arquitectura SOA (Service-Oriented Architecture) y BPM (Business Process Management). Consulting, support and development of a functional prototype based on Service-Oriented Architecture (SOA) and Business Process Management (BPM).

- FUNDED BY: Gestores de Proyectos Multimedia, S.L. (GPM)
- DURATION: 2009-2011
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 381.034,00 € + IVA

PROJECT: Desarrollo de una metodología para la gestión de crisis en formato electrónico, organización de un taller relativo al tema y desarrollo de un portal web interactivo de tercera generación relativo al tema. (Development of a methodology for crisis management in electronic format, organization of a workshop relevant to the topic, and the development of a third generation interactive web portal related to the topic).

- FUNDED BY: Fundación General de la University of Salamanca
- DURATION: 2009-10
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 25.862,07 € + IVA

PROJECT: Desarrollo de proyectos conjuntos en temas relacionados con el desarrollo de sistemas de simulación inteligente. (Development of projects joint projects for topics related to the development of intelligent simulation systems).

- FUNDED BY: Matchmind S.L.



- DURATION: 2009-10
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 218.100,00 € + IVA

PROJECT: Investigación de una herramienta de soporte para procesado de planos y desarrollo de una infraestructura de datos espaciales con funcionalidades para la gestión empresarial. (Research for a support tool to process plans and infrastructure for spatial data with functionalities for business management).

- FUNDED BY: GCI.SL
- DURATION: 2009
- PRINCIPAL RESEARCHER: Emilio S. Corchado Rodríguez
- BUDGET: 228.000,00 €

PROJECT: Desarrollo de un sistema inteligente para la localización e identificación. (Development of an intelligent system for localization and identification).

- FUNDED BY: Tulecom Group, S.L.
- DURATION: 2009
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 345.000,00 € + IVA

PROJECT: Desarrollo de un prototipo de plataforma de gestión para la e-administración. (Development of a management platform prototype for e-administration).

- FUNDED BY: Juan Llorens Comunicación, S.L.U.
- DURATION: 2008-2010
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 100.000,00 € + IVA.

PROJECT: Asesoramiento científico/técnico en el desarrollo de un sistema inteligente ambiental para la localización e identificación de personas y elementos móviles. (Scientific/technical assessment in the development of an intelligent ambient system for the localization and identification of mobile persons and elements).

- FUNDED BY: Gerionte Techonology, S.A:
- DURATION: 2008-2009
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 43.000,00 € + IVA.

PROJECT: Desarrollo de modelos inteligentes con tecnología 3D para la generación de simuladores. (Development of intelligent models with 3D technologies for simulator generation).

- FUNDED BY: MATCHMIND S.L.
- DURATION: 2008
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 24.300,00 € + IVA.

PROJECT: Desarrollo de un sistema inteligente para la localización de individuos móviles por triangulación de redes inalámbricas. (Development of an intelligent system to locate mobile individuals through triangulation of wireless networks).

- FUNDED BY: Tulecom Group, S.L.
- DURATION: 2008
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 19.443,18 € + IVA.

PROJECT: Asesoramiento, seguimiento y evaluación del desarrollo de un aparato de electroanalgesia e inmovilización de animales. (Evaluation, monitoring and evaluation of the development of an eletro-analgesic device and the immobilization of animals).

- FUNDED BY: Gerionte Technology, S.A.
- DURATION: 2008-2009
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez

PROJECT: Innovación Tecnológica y Arte Digital: Investigación En Modelos y Técnicas. Infraestructura y Tecnología. (Innovation Technology and Digital Art: Research of Models and Techniques. Infrastructure and Technology).

- FUNDED BY: GPM Digital Entertainment Factory S.L.
- DURATION: 2007-2008
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 567.296,00 €.

PROJECT: Dotación económica para la financiación de becarios de investigación en el marco del proyecto “Innovación tecnológica y arte digital: investigación en modelos y técnicas. Infraestructura y tecnología”. (Financial aid to fund research scholars within the framework of the project “Innovation technology and digital art: research of models and techniques. Infrastructure and technology”).

- FUNDED BY: GPM Digital Entertainmento Factory, S.L.
- DURATION: 2007-2009
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 92.729,30 € + IVA.

PROJECT: Innovación Tecnológica y Arte Digital: Investigación yn Modelos y Técnicas. (Innovation Technology and Digital Art: Research in models and techniques).

- FUNDED BY: GPM Digital Entertainment Factory S.L.
- DURATION: 2007-2008
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 26.890,91 €.



PROJECT: Asesoramiento en estrategias I+D. captación de fondos, relaciones externas ENNE e identificación de RRHH. (Evaluation of R&D strategies, gathering funds, external relationships ENNE and identification of human resources).

- FUNDED BY: GPM Digital Entertainmento Factory, S.L. (ENNE)
- DURATION: 2007-2008
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 226.000,00 € + IVA.

PROJECT: Sistema inteligente para la personalización de información en dispositivos inalámbricos. (Intelligent system for personalizing information on wire devices).

- FUNDED BY: Babeldreams, S.L. (Unkasoft)
- DURATION: 2007
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez
- BUDGET: 21.136,66 € + IVA.

PROJECT: Dirección académica y elaboración de contenidos del proyecto ETIC para la innovación empresarial. (Academic leadership and elaboration of contents of the ETIC project for business innovation).

- FUNDED BY: Fundación General de la University of Salamanca, Artículo 83 LOU.
- DURATION: 2006-2007
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 111.850,00 €

PROJECT: Evaluación de proyectos de I+D y T+T. (Evaluation of R&D and T&T projects).

- FUNDED BY: EQA CERTIFICADOS I+D+I, Artículo 83 LOU.
- DURATION: 2006
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 52.900,00 €

PROJECT: Colaboración docente en el proyecto ETIC para la innovación empresarial. (Collaborative advising for the ETIC project for business innovation).

- FUNDED BY: Fundación General de la University of Salamanca, Artículo 83 LOU.
- DURATION: 2006 - 2007
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 24.750,00 €

PROJECT: Investigación en el Desarrollo de un Sistema Multiagente para Redes Inalámbricas. (Research in the development of a Multiagent system for Wireless Networks).

- FUNDED BY: FLAG SOLUTIONS, S.L.
- DURATION: 2006 - 2007
- PRINCIPAL RESEARCHER: Emilio S. Corchado Rodríguez.
- BUDGET: 17.120,98 €

PROJECT: Mantenimiento y actualización mensual de los contenidos técnicos y científicos de la página Web institucional de la "Sociedad Española de Presas y Embalses (SEPREM). (Monthly maintenance and updating of technical and scientific content of the SEPREM (Spanish Society of Dams and Reservoirs) institutional web page).

- FUNDED BY: SEPREM
- DURATION: 2005 - 2006
- PRINCIPAL RESEARCHER: BUENO HERNANDEZ, FRANCISCO, SALDAÑA ARCE, DIEGO, Corchado Rodríguez, Emilio Santiago

PROJECT: Dirección académica y elaboración de contenidos del proyecto Seguridad en Internet: CERTYRED . (Academic guidance and elaboration of content for the CERTYRED Internet Security project).

- FUNDED BY: Fundación General de la University of Salamanca
- DURATION: 2005
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 9.541,30 €

PROJECT: Colaboración docente en el proyecto Seguridad en Internet. (Collaborative advising on the Internet Security project).

- FUNDED BY: Fundación General de la University of Salamanca
- DURATION: 2005
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 9.551,70 €

PROJECT: Desarrollo de sistemas inteligentes para dispositivos móviles con tecnología de agente. (Development of intelligent systems for mobile devices with agent technology).

- FUNDED BY: AVANZZA SALAMANCA S.L. Artículo 83 LOU.
- DURATION: 2005
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 32.000,00 €

PROJECT: Desarrollos de Sistemas Distribuidos Inteligentes con Tecnología de Agentes. (Development of Intelligent Distributed Systems with Agent Technology).

- FUNDED BY: DYCEC. Artículo 83 LOU.
- DURATION: 2004 - 2005
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 9.000,00 €

PROJECT: Desarrollos de Sistemas Distribuidos Inteligentes. (Development of Intelligent Distributed Systems).

- FUNDED BY: DYCEC. Artículo 83 LOU.
- DURATION: 2004 - 2005
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 6.264,00 €



PROJECT: Creación de la Página Web Institucional de la "Sociedad Española de Presas y Embalses" y la Dotación de Contenidos Científicos y Técnicos de la Misma. (Creation of Institutional Web Page for the "Spanish Society of Dams and Reservoirs" and the provision of Scientific and Technical Content for the same).

- FUNDED BY: SEPREM. Artículo 83 LOU
- DURATION: 2004 - 2005
- PRINCIPAL RESEARCHER: Corchado Rodríguez, Emilio Santiago , BUENO HERNANDEZ, FRANCISCO, SALDAÑA ARCE, DIEGO
- BUDGET: 5.500,00 €

PROJECT: Impartición de Cursos de Formación sobre Seguridad y Sistemas Distribuidos. (Provision and Instruction of Training Courses for Distributed Systems and Security).

- FUNDED BY: DYCEC. Artículo 83 LOU.
- DURATION: 2003 - 2004
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 9.000,00 €

PROJECT: Asesoramiento en la Implantación de Sistemas Informáticos. (Evaluation of the establishment of Computer Systems).

- FUNDED BY: IMPEL 2000, S.L. Artículo 83 LOU.
- DURATION: 2002
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 13.000,00 €

PROJECT: Desarrollo de un Sistema On-Line para la Gestión y Mantenimiento de los Servicios del WP Myeloma 2003. (Development of an On-line System for the Management and Maintenance of the WP Myeloma 2003 services).

- FUNDED BY: Hospital Universitario de Salamanca. Artículo 83 LOU.
- DURATION: 2002 -2003
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 9.100,00 €

PROJECT: Impartición de Cursos de Formación sobre Desarrollo de Aplicaciones E-Comm. (Provision and Instruction of Training Courses for the Development of E-Comm Applications).

- FUNDED BY: DYCEC. Artículo 83 LOU.
- DURATION: 2002 - 2003
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 9.000,00 €

PROJECT: IVOCLAR VIVADENT S.A.

- FUNDED BY: BIOVENT. Artículo 11 LRU.
- DURATION: 2001-2002

- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- BUDGET: 130.000,00 €

PROJECT: IN-046-00. Informe Sobre la Monitorización de una Red de Impresoras. (Report on the Supervision of a Printer Network).

- FUNDED BY: Coremain S.L. Ourense. Artículo 11 LRU.
- DURATION: 2000
- PRINCIPAL RESEARCHER: Fernando Díaz - Universidad de Vigo.
- BUDGET: 250.000 pts.

PROJECT: IN-074-99. Sistema de Información Empresarial Basado en Páginas Web. (Business information system based on Web pages).

- FUNDED BY: Asociación de Empresarios de Empresarios Polígono San Ciprian de Viñas, Ourense. Artículo 11 LRU.
- DURATION: 1999
- PRINCIPAL RESEARCHER: Pedro Cuesta - Universidad de Vigo.
- BUDGET: 250.000 pts.

PROJECT: IN-094-99. Sistema de Información Distribuido para la Gestión de servicios de CEO. (Distributed Information System for managing CEO services).

- FUNDED BY: Confederación Empresarial de Ourense, Ourense. Artículo 11 LRU.
- DURATION: 1999
- PRINCIPAL RESEARCHER: Pedro Cuesta - Universidad de Vigo.
- BUDGET: 3.250.000 pts.



4.5 Educational Innovation Projects

PROJECT: Máster en el Desarrollo de Sistemas de Comercio Electrónico: Comercio y Negocio Electrónico. (Master's in System Development of Electronic Commerce: Electronic Commerce and Business).

- FUNDED BY: Avanza Formación TSI-010103-2010-209.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2010-2011.
- BUDGET: 384.812,50 €

PROJECT: Certificación Profesional en Arquitecturas de Contenidos para Aplicaciones Digitales. (Professional Certification in Architecture for Content of Digital Applications).

- FUNDED BY: Avanza Formación TSI-010104-2010-77
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2010-2011.
- BUDGET: 264.835,00 €

PROJECT: Arquitectura de Comunicación, Interacción y Formación. Basada en Estándares de Calidad Para La Comunidad Universitaria. (Communication, Interaction and Training Architecture. Based on the standards for the Quality of the University Community).

- FUNDED BY: University of Salamanca.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2010-2011.
- BUDGET: 4.000,00 €

PROJECT: MOV-VIS: Nueva metodología para adaptar la enseñanza de idiomas a personas con discapacidades. UPSA – 10ML1-IN-U05EI-1. (New methodology to adapt language teaching to persons with disabilities).

- FUNDED BY: Proyectos Precompetitivos de la Universidad Pontificia de Salamanca.
- PRINCIPAL RESEARCHER: Javier Bajo Pérez.
- DURATION: 2010-2011.
- BUDGET: 1.800,00 €

PROJECT: Nueva metodología para el aprendizaje activo mediante tecnologías móviles en la enseñanza de idiomas a personas dependientes. UPSA-U05EIA-08K01. (New methodology for active learning through the use of mobile technology in the language teaching for dependent persons).

- FUNDED BY: Proyectos Precompetitivos de la Universidad Pontificia de Salamanca.
- PRINCIPAL RESEARCHER: Javier Bajo Pérez.
- DURATION: 2009-2010.

PROJECT: 3DRA: Realidad Aumentada, como soporte a la formación activa mediante portales 3D. ID9/004. (Enhanced Reality as a support for active training through the use of 3D portals).

- FUNDED BY: University of Salamanca.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2009-2010.
- BUDGET: 2.100,00 €

PROJECT: Experto Universitario en el Desarrollo de Sistemas para el Comercio Electrónico. (Expert in Systems Development for Electronic Commerce).

- FUNDED BY: Avanza Formación TSI-010103-2009-59
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2009-2010.
- BUDGET: 253.899,50 €

PROJECT: Formación y tutorización activa mediante Web 3D. ID/0019. (Active training and tutoring through Web 3D).

- FUNDED BY: University of Salamanca.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2008 - 2009.
- BUDGET: 3.000,00 €

PROJECT: European Master in Computer Science. I3438S-LLP-I-2007-I-PT-ERASMUS-ECnSp

- FUNDED BY: Lifelong Learning: Erasmus, Jean Monnet. Comision Europea
- PRINCIPAL RESEARCHER: Fernanda Barbosa (Politecnico de Coimbra, Portugal)
- DURATION: 2007-2010.
- BUDGET: 55.800,00 €

PROJECT: La Repercusión de Medidas de Internacionalización en Asignaturas de Grado en Titulaciones de Ingeniero Informático. US10/07. (Measures the impact of internationalization on degree courses in Computer Engineering degree).

- FUNDED BY: Consejería de Educación de Castilla y León
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2006 - 2007
- BUDGET: 6.300,00 €

PROJECT: Programa de Formación en TIC's para la Innovación Empresarial : E-TIC. (Training Programme in ICT for Business Innovation: E-TIC).

- Director: Juan Manuel Corchado Rodríguez.
- Organo o Centro: Ministerio de Industria, Turismo y Transporte.
- DATE: 2006-2007.
- Tipo de participación del solicitante: Director del Proyecto
- BUDGET: 47.592,00 €

PROJECT: CERTYRED – Certificación en Seguridad Informática. (Information Security Certification).

- FUNDED BY: Ministerio de Industria, Turismo y Transporte.



- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2006-2007.
- BUDGET: 55.800,00 €

PROJECT: UB06/05 BURGOS IMPLANTACION DEL CURSO EUROPEO DE INFORMATICA ECS (EUROPEAN COMPUTER SCIENCE)

- FUNDED BY: Orden EDU/1856/2005, de 29 de noviembre, por la que se resuelve la convocatoria de ayudas para la elaboración y desarrollo de proyectos relacionados con la convergencia europea de la enseñanza en las Universidades de Castilla y León.
- PRINCIPAL RESEARCHER: Emilio S. Corchado Rodríguez.
- DURATION: noviembre, 2005
- BUDGET: 4.500,00 €

PROJECT: Segunda Fase: Implantación del curso europeo de informática ECS (European Computer Science). (Second Phase: Establishment of European course in Computer Science, ECS (European Computer Science)).

- FUNDED BY: Orden EDU/1968/2006. Ayudas para la elaboración y desarrollo de proyectos en torno a la armonización y convergencia de la enseñanza y/o gestión universitaria en el Espacio Europeo de Educación Superior, a iniciar en el Year 2006. Junta de Castilla y León
- PRINCIPAL RESEARCHER: Emilio S. Corchado Rodríguez.
- DURATION: 2006
- BUDGET: 4.500,00 €.

PROJECT: CERTYRED – Certificación en Seguridad Informática. (Information Security Certification).

- FUNDED BY: Ministerio de Industria, Turismo y Transporte.
- PRINCIPAL RESEARCHER: Juan Manuel Corchado Rodríguez.
- DURATION: 2005-2006.
- BUDGET: 68.000,00 €

PROJECT: UB 03/04.- Estudio y Análisis del Curso Europeo de Informática (ECS-European Computer Science). (Study and Analysis of the European Course of Computer Science (ECS-European Computer Sciences)).

- FUNDED BY: Orden EDU/1468/2004, de 6 de October, por la que se resuelve la convocatoria de ayudas para la elaboración de recursos de apoyo y experiencias innovadoras en torno a la convergencia europea de la enseñanza en las universidades públicas de Castilla y León para el Year 2004, mediante la formación de grupos permanentes de trabajo y redes interuniversitarias de profesores
- PRINCIPAL RESEARCHER: Emilio S. Corchado Rodríguez.
- DURATION: 2004.
- BUDGET: 1.980,00 €

4.6 Thematic Networks

4.6.1 International

PROJECT: **Coordination Action – NISIS Nature-inspired Smart Information Systems.**

- FUNDED BY: European Commission IST- contract no. 13569.
- DURACION: 2005 - 2006
- PRINCIPAL RESEARCHER: D. A. Linkens, Universidad de Sheffield
- KIND OF PARTICIPATION: Coordinador del nodo de la University of Salamanca.

PROJECT: **European Network of Excellence for Agent-Based Computing. IST-1999-29003.**

- FUNDED BY: European Commission IST.
- DURATION: 1999 - 2003
- PRINCIPAL RESEARCHER: Michael Luck, Universidad de Southampton.

PROJECT: **AGENCYCITIES.NET PROJECT. IST-2000-28384.**

- FUNDED BY: European Commission IST.
- DURATION: 1999 - 2003
- PRINCIPAL RESEARCHER: A. Girenko, D.F.f.K.I.G.

4.6.2 National

PROJECT: **Integración de Aplicaciones e Información Empresarial. TIN2008-04718-E. (Integration of Business Information and Applications).**

- FUNDED BY: MCYT.
- DURATION: 2008-2011
- PRINCIPAL RESEARCHER: Rafael Corchuelo. Universidad de Sevilla.
- USAL PRINCIPAL RESEARCHER: Juan Manuel Corchado
- BUDGET: 15.500,00 €

PROJECT: **Creación de un Entorno Innovador para la Comunicación de Agentes Inteligentes. TIC2001-5108-E. (Creation of an Innovative Environment for Communication between Agents).**

- FUNDED BY: MCYT.
- DURATION: 2007
- PRINCIPAL RESEARCHER: Antonio Moreno. Universidad Rovira i Virgili.
- BUDGET: 10.000,00 €

PROJECT: **Creación de un Entorno Innovador para la Comunicación de Agentes Inteligentes. TIC2001-5108-E. (Creation of an Innovative Environment for Communication between Intelligent Agents).**

- FUNDED BY: MCYT.
- DURATION: 2003 - 2005.
- PRINCIPAL RESEARCHER: Antonio Moreno. Universidad Rovira i Virgili.



- BUDGET: 40.000,00 €.

PROJECT: **Red Nacional de Planificación, Secuenciación y Razonamiento Temporal. TIC2001-4936-E. (National Planning, Sequencing, and Temporal Reasoning Network).**

- FUNDED BY: MCYT.
- DURATION: 2002 - 2003.
- PRINCIPAL RESEARCHER: Luis Castillo. Universidad de Granada.
- BUDGET: 36.000,00 €

PROJECT: **Red Española de Minería de Datos y Aprendizaje Automático. TIC2002-11124-E. (Spanish Network Data Mining and Machine Learning).**

- FUNDED BY: MCYT.
- DURATION: 2003 - 2004
- PRINCIPAL RESEARCHER: José Cristobal Riquelme Santos, Universidad de Sevilla.
- BUDGET: 18.000,00 €

5 Publications

5.1 Journals

5.1.1 Year 2012

TITLE: A Multi-Agent Architecture for Distributed Services and Applications.

- AUTHOR(S): Juan M. Corchado, Dante I. Tapia and Javier Bajo.
- JOURNAL: International Journal of Innovative Computing, Information and Control (IJICIC).
- IMPACT FACTOR: 1.664 (2010 Accept)

TITLE: idMAS-SQL: Intrusion Detection based on MAS to Detect and Block SQL Injection through Data Mining.

- AUTHOR(S): Cristian Pinzón, Juan F. de Paz, Álvaro Herrero, Emilio Corchado, Javier Bajo and Juan M. Corchado.
- JOURNAL: Information Sciences (Informatics and Computer Science Intelligent Systems Applications An International Journal). Special Issue on Data Mining for Information Security.
- IMPACT FACTOR: 2.833 (2011)

TITLE: Mitigation of the ground reflection effect in real-time locating systems based on wireless sensor networks by using artificial neural networks.

- AUTHOR(S): Juan F. de Paz, Dante I. Tapia, Ricardo S. Alonso, Cristian I. Pinzón, Javier Bajo and Juan M. Corchado.
- JOURNAL: Knowledge and Information Systems, An International Journal.
- IMPACT FACTOR: 2.225 (2011)

TITLE: Implementing a Hardware-Embedded Reactive Agents Platform based on a Service-Oriented Architecture over Heterogeneous Wireless Sensor Networks.

- AUTHOR(S): Ricardo S. Alonso, Dante I. Tapia, Javier Bajo and Juan Manuel Corchado.
- JOURNAL: Ad Hoc Networks.
- IMPACT FACTOR: 2.110 (2011)

TITLE: Combining Case-based Reasoning Systems and Support Vector Regression to Evaluate the Atmosphere-Ocean Interaction.

- AUTHOR(S): De Paz J.F., Bajo J., González A., Rodríguez S. and Corchado J.M.
- JOURNAL: Knowledge and Information Systems, An International Journal.
- IMPACT FACTOR: 2.225 (2011)

TITLE: Self-Organizing Multi-Agent system for management and planning surveillance routes.

- AUTHOR(S): Rodríguez S., Tapia D.I., De Paz J.F., Corchado J.M., Bajo J. and Abraham A.



- JOURNAL: Computing and Informatics.
- IMPACT FACTOR: 0.239 (2011)

TITLE: Mathematical model for a temporal-bounded classifier in security environments

- AUTHOR(S): Juan F. De Paz, Martí Navarro, Cristian I. Pinzón, Vicente Julián, Dante I. Tapia, Javier Bajo
- JOURNAL: Logic Journal of the IGPL
- IMPACT FACTOR: 0.913 (2011)

TITLE: Model for assigning roles automatically in egovernment virtual organizations

- AUTHOR(S): Carolina Zato, Juan F. De Paz, Ana de Luis, Javier Bajo, Juan M. Corchado
- JOURNAL: Expert Systems with Applications
- IMPACT FACTOR: 2.203 (2011)

TITLE: A multi-agent system for web-based risk management in small and medium business

- AUTHOR(S): Javier Bajo, María L. Borrajo, Juan F. De Paz and Juan M. Corchado
- JOURNAL: Expert Systems with Applications
- PUBLISHER: Elsevier
- IMPACT FACTOR: 2.203 (2011)

TITLE: Temporal Bounded Reasoning in a Dynamic Case Based Planning Agent for Industrial Environments

- AUTHOR(S): Martí Navarro, Juan F. De Paz, Vicente Julián¹, Sara Rodríguez, Javier Bajo, Juan M. Corchado
- JOURNAL: Expert Systems with Applications
- PUBLISHER: Elsevier
- IMPACT FACTOR: 2.203 (2011)

TITLE: Improving the Security Level of the FUSION@ Multi-Agent Architecture

- AUTHOR(S): Cristian Pinzón, Juan F. de Paz, Dante I. Tapia, Javier Bajo and Juan M. Corchado
- JOURNAL: Expert Systems with Applications
- PUBLISHER: Elsevier
- IMPACT FACTOR: 2.203 (2011)

TITLE: FUSION@ Multi-Agent Architecture Expert Systems With Applications

- AUTHOR(S): Cristian I. Pinzón, Juan F. De Paz, Javier Bajo, Dante I. Tapia and Juan. M. Corchado
- JOURNAL: Expert Systems with Applications
- PUBLISHER: Elsevier
- IMPACT FACTOR: 2.203 (2011)

TITLE: Advances in Artificial Intelligence and Distributed Computing

- AUTHOR(S): Juan Manuel Corchado, Javier Bajo, Pawel Pawlewski, Sara Rodriguez
- ISBN: ISSN 0974-0635
- JOURNAL: International Journal of Artificial Intelligence. vol.: 8 num.: 8
- IMPACT FACTOR: 2.362 (2011)

5.1.2 Year 2010-2011

TITLE: MicroCBR: A Case-based reasoning architecture for the classification of microarray data

- AUTHOR(S): Juan F. De Paz, Javier Bajo, Vicente Vera and Juan M. Corchado
- JOURNAL: Applied in Soft Computing
- IMPACT FACTOR: 2.084 (2011)

TITLE: A new algorithm for Detecting Database Attacks

- AUTHOR(S): Cristian I. Pinzón, Carolina Zato, Dante I. Tapia, Javier Bajo, Juan F. De Paz, and Juan. M. Corchado
- JOURNAL: International Journal of Computer Mathematics
- PUBLISHER: TAYLOR & FRANCIS
- ISSN: 0020-7160
- IMPACT FACTOR: 0.49 (2011)

TITLE: Stereo Video Surveillance Multi-Agent System: New Solutions for Human Motion Analysis

- AUTHOR(S): Pere Marti-Puig, Sara Rodríguez, Juan F. De Paz, Ramon Reig-Bolaño, Manuel P. Rubio, Javier Bajo
- JOURNAL: Journal of Mathematical Imaging and Vision
- PUBLISHER: Springer
- ISSN: 0924-9907
- DATE: April 2011
- IMPACT FACTOR: 1.444 (2011)
- Vol. , pp. -. doi: 10.1007/s10851-011-0290-2

TITLE: CBR-Based System with Neural Business Control to Predict Business Failure in Small and Medium Sized Companies

- AUTHOR(S): Lourdes Borrajo, Bruno Baruque, Emilio Corchado, Javier Bajo and Juan M. Corchado
- JOURNAL: International Journal of Neural Systems
- PUBLISHER: World Scientific Publishing Company
- ISSN: 0129-0657
- DATE: Singapore (Singapore) In Press
- IMPACT FACTOR: 2.988 (JCR-2010)

TITLE: Agent Based Virtual Organization Architecture



- AUTHOR(S): Sara Rodríguez, Vicente Julián, Javier Bajo, Carlos Carrascosa Vicente Botti and Juan M. Corchado
- JOURNAL: Engineering Applications of Artificial Intelligence
- PUBLISHER: Pergamon-Elsevier Science LTD
- ISSN: 0129-0657
- VOLUMÉN: Vol. 24 (5), pp.895-910. doi: 10.1016/j.engappai.2011.02.003,
- ISSN: 0925-1976
- DATE: Oxford, England (United Kingdom) In Press
- IMPACT FACTOR: 1.44 (JCR-2010)

TITLE: A new clustering algorithm applying a hierarchical method neural network

- AUTHOR(S): Javier Bajo, Juan Francisco de Paz, Sara Rodríguez and Angélica González
- JOURNAL: Engineering Applications of Artificial Intelligence
- PUBLISHER: Pergamon-Elsevier Science LTD
- ISSN: 0129-0657
- VOLUMÉN: Vol. 19(2), pp. 304-314. doi: 10.1093/jigpal/jzq030
- ISSN: Online 1368-9894 - Print 1367-0751
- DATE: Oxford University Press, April 2011
- IMPACT FACTOR: 0.320 (JCR-2010)

TITLE: Improving an Ambient Intelligence Based Multi-Agent System for Alzheimer Health Care using Wireless Sensor Networks

- AUTHOR(S): Dante I. Tapia, Ricardo S. Alonso and Juan M. Corchado
- JOURNAL: International Journal of Ambient Computing and Intelligence (IJACI)
- VOLUMEN: Special Issue: "Ubiquitous Developments in Ambient Computing and Intelligence: Human-Centered Applications"
- PUBLISHER: IGI Publishing
- ISSN: 1941-6237
- DATE: In Press

TITLE: A Telemonitoring System for Healthcare Using Heterogeneous Wireless Sensor Networks

- AUTHOR(S): Dante I. Tapia, Ricardo S. Alonso, Juan F. De Paz, Carolina Zato and Fernando De la Prieta
- JOURNAL: International Journal of Artificial Intelligence
- ISSN: 0974-0635
- DATE: 01/2011
- Vol. , Núm Pág: 6(S11)
- PUBLISHER: CESER Publications

TITLE: SYLPH: A Platform for Integrating Heterogeneous Wireless Sensor Networks in Ambient Intelligence Systems

- AUTHOR(S): Ricardo S. Alonso, Dante I. Tapia & Juan M. Corchado
- JOURNAL: International Journal of Ambient Computing and Intelligence (IJACI)

- ISSN: 1941-6237
- DATE: Hershey, PA, USA - In Press
- PUBLISHER: IGI Publishing

TITLE: CROS: A Contingency Response Multi-Agent System for Oil Spills Situations

- AUTHOR(S): Aitor Mata, Dante I. Tapia & Juan M. Corchado
- JOURNAL: Applied Soft Computing
- ISSN: 1568-4946
- DATE: New York, USA - 02/2011
- Vol. , Núm Pág: 11(3)
- IMPACT FACTOR(2009): 2.415
- PUBLISHER: Elsevier

TITLE: Ambient Intelligent and Collaborative e-Learning: A New Definition Model

- AUTHOR(S): Óscar García, Dante I. Tapia, Ricardo S. Alonso, Sara Rodríguez, Juan M. Corchado
- JOURNAL: Journal of Ambient Intelligence and Humanized Computing (JAIHC)
- ISSN: 1868-5137 (Print) 1868-5145 (Online); DOI: 10.1007/s12652-011-0050-6
- DATE: Berlin - 03/2011
- Vol. , Núm Pág: 11(3)
- IMPACT FACTOR(2009): 2.415
- PUBLISHER: Elsevier

TITLE: Dynamic model of distribution and organization of activities in multi-agent systems

- AUTHOR(S): Carolina Zato, Ana de Luis, Javier Bajo, Juan F. De Paz, Juan M. Corchado
- JOURNAL: Logic Journal of the IGPL ISSN: 1368-9894
- DATE: Aceptado sujeto a cambios
- Vol. , Núm Pág: In Press
- IMPACT FACTOR(2009): 0.320, Mathematics (232/255), Mathematics, Applied (196/204)

TITLE: Integrating Hardware Agents into an Enhanced Multi-Agent Architecture for Ambient Intelligence Systems

- AUTHOR(S): Dante I. Tapia, Juan A. Fraile, Sara Rodríguez, Ricardo S. Alonso & Juan M. Corchado
- JOURNAL: Information Sciences ISSN: 0020-0255
- DATE: Aceptado sujeto a cambios
- Vol. , Núm Pág: In Press
- IMPACT FACTOR(2009): 3.291

TITLE: S-MAS: An Adaptive Hierarchical Distributed Multiagent Architecture for Blocking Malicious SOAP Messages within Web Services Environments.

- AUTHOR(S): Pinzón C., Bajo J, De Paz J.F. and Corchado J.M.
- JOURNAL: Expert Systems with Applications. ISSN: 0957-4174



- DATE: 2011
- Vol. 38, Núm Pág: 5486–5499
- DOI:10.1016/j.eswa.2010.10.088

TITLE: Integrating Hardware Agents into an Enhanced Multi-Agent Architecture for Ambient Intelligence Systems.

- AUTHOR(S): Tapia Dante I., Fraile J.A., Rodríguez S., Alonso R.S. and Corchado J.M.
- JOURNAL: Information Sciences ISSN: 0020-0255 Imprint: ELSEVIER
- DATE: In Press

TITLE: An Adaptive Algorithm for Feature Selection in Pattern Recognition.

- AUTHOR(S): De Paz J.F., Rodríguez S., López V. and Bajo J.
- JOURNAL: International Journal of Computer Mathematics.
- DATE: In Press

TITLE: A SomAgent statistical machine translation

- AUTHOR(S): López V.F., Corchado J., De Paz J.F., Rodríguez S., Bajo J.
- JOURNAL: Applied Soft Computing.
- DATE: March 2011
- Vol. 1, Núm 11 Pág: 2925-2933
- DOI:10.1016/j.asoc.2010.08.018

TITLE: Real-Time CBR-Agent with a Mixture of Experts in the Reuse Stage to Classify and Detect DoS Attacks.

- AUTHOR(S): Pinzón C., De Paz J.F., Navarro M., Bajo J., Julián V. and Corchado J.M.
- JOURNAL: Applied Soft Computing. Special Issue On Softcomputing For Information Security. ISSN: 1568-4946
- DATE: In Press

TITLE: HoCa: Multiagent Architecture for Developing Intelligent Home Care Environments.

- AUTHOR(S): Corchado J.M., Fraile J.A., Bajo J. and Pérez-Lancho B.
- JOURNAL: Applied Soft Computing. ISSN: 1568-4946

TITLE: Hierarchical neural network for clustering and classification.

- AUTHOR(S): Bajo J., De Paz J.F., Rodríguez S. and González A.
- JOURNAL: Logic Journal of the IGLP. ISSN 1368-9894 - Print ISSN 1367-0751.
(Aceptado Sujeto a Cambios)

TITLE: A SomAgent statistical machine translation.

- AUTHOR(S): López V.F., Corchado J., De Paz J.F., Rodríguez S., Bajo J.
- JOURNAL: Applied Soft Computing.(Aceptado Sujeto a Cambios)
- DOI: 10.1016/j.asoc.2010.08.018

TITLE: Biomedic Organizations: An Intelligent Dynamic Architecture for KDD.

- AUTHOR(S): De Paz J.F., Bajo J., López V. and Corchado J.M.
- JOURNAL: Information Sciences (Informatics and Computer Science Intelligent Systems Applications An International Journal) (Aceptado Sujeto a Cambios)

TITLE: HoCa: Multiagent Architecture for Developing Intelligent Home Care Environments.

- AUTHOR(S): Corchado J.M., Fraile J.A., Bajo J. and Pérez-Lancho B.
- JOURNAL: Applied Soft Computing. ISSN: 1568-4946
- TITLE: Self-Organizing Multi-Agent system for management and planning surveillance routes.
- AUTHOR(S): Rodríguez S., Tapia D.I., De Paz J.F., Corchado J.M., Bajo J. and Abraham A.
- JOURNAL: Computing and Informatics (InPress)

TITLE: Applying a Service Oriented Approach for Developing a Distributed Multi-Agent System for Health Care.

- AUTHOR(S): Tapia D.I., Bajo J., Corchado J.M., Rodríguez S., De Paz J.F., Pinzón C. and Cano R.
- JOURNAL: International Journal of Computer Applications in Technology (IJCAT). ISSN (Online): 1741-5047 - ISSN (Print): 0952-8091.
- DATE: 2010.
- Vol 38, Num 4 Pág:234-244.
- DOI: 10.4114/ia.v13i42.1044

TITLE: Applying wearable solutions in dependent environments.

- AUTHOR(S): Fraile J.A., Bajo J., Corchado J.M. and Abraham A.
- JOURNAL: IEEE Transactions on Information Technology in Biomedicine.
- DATE: 2010.

TITLE: A Distributed Architecture for Facilitating the Integration of Blind Musicians in Symphonic Orchestras.

- AUTHOR(S): Bajo J., Sánchez M.A., Alonso V., Berjón R., Fraile J.A., and Corchado J.M.
- JOURNAL: Expert Systems with Applications ISSN: 0957-4174.
- DATE: In Press 2010.

TITLE: A distributed Hierarchical Multi-Agent Architecture for Blocking Attacks to Databases.

- AUTHOR(S): Bajo J., Corchado J.M., Pinzón C., De Paz Y. and Pérez-Lancho B.
- JOURNAL: International Journal of Innovative Computing, Information and Control (IJICIC). ISSN: 1349-4198
- DATE: In Press 2010.

Vol 6, Num 9 Pág:3787-3817.

TITLE: A weighted voting summarization of SOM ensembles.

- AUTHOR(S): Bruno Baruque, Emilio Corchado.



- JOURNAL: Data Mining and Knowledge Discovery. ISSN: 1384-5810.
- DATE: 2010.
- Vol 21, Num 3 Pág:398-426.
- DOI: 10.1007/s10618-009-0160-3

TITLE: Multi-Agent System to Monitor Oceanic Environments.

- AUTHOR(S): Bajo J., De Paz J.F., Rodríguez S., González A.
- JOURNAL: Integrated Computer-Aided Engineering (ICAE) ISSN: 1069-2509.
- DATE: 2010.
- Vol 17, Num 2 Pág:131-144.
- DOI: 10.3233/ICA-2010-0332

TITLE: The THOMAS Architecture in Home Care Scenarios: A case study.

- AUTHOR(S): Bajo J., Fraile J.A., Corchado J.M. and Pérez-Lancho B.
- JOURNAL: Expert Systems with Applications ISSN: 1041-4347.
- DATE: 2010.
- Vol 37, Num 5 Pág:3986-3999.
- DOI: 10.1016/j.eswa.2009.11.017

TITLE: Multi-Agent Neural Business Control System.

- AUTHOR(S): Borrajo M.L, Corchado J.M., Corchado E.S., Pellicer M.A. and Bajo J.
- JOURNAL: Information Sciences (Informatics and Computer Science Intelligent Systems Applications An International Journal. Elsevier Science. ISSN: 0020-0255.
- DATE: 2010.
- Vol 180, Num 106 Pág:911-927
- DOI: 10.1016/j.ins.2009.11.028

5.1.3 Year 2009

TITLE: A hibryd agent-based classification mechanism to detect denial of service attacks.

- AUTHOR(S): Pinzón C.I., De Paz J.F. Rodríguez S., Corchado J.M., Bajo J.
- JOURNAL: Journal of Physical Agents (JoPHA). ISSN: 1888-0258.
- DATE: 2009.
- Vol 3, Num 3 Pág:11-18
- DOI: <http://hdl.handle.net/10045/12528>

TITLE: Using Heterogeneous Wireless Sensor Networks in a Telemonitoring System for Healthcare.

- AUTHOR(S): Corchado J.M., Bajo J., Tapia D.I. and Abraham A.
- JOURNAL: IEEE Transactions on Information Technology in Biomedicine. Special Issue: Affective and Pervasive Computing for Healthcare. ISSN: 1349-4198

TITLE: A Distributed Hierarchical Multi-agent Architecture for Blocking Attacks to Databases.

- AUTHOR(S): Bajo J., Corchado J.M., Pinzón C., De Paz Y. and Pérez-Lancho B.
- JOURNAL: International Journal of Innovative Computing, Information and Control (IJICIC). ISSN: 1349-4198

TITLE: Practical Applications of Agents and MAS: Methods, Techniques and Tools for Open MAS.

- AUTHOR(S): Bajo J., Corchado J.M., Botti V. and Ossowski S.
- JOURNAL: Journal of Physical Agents. Special Sessions on Practical Applications of Agents and Multiagent Systems. ISSN: 1888-0258
- DATE: September 2009.
- Vol. 3, Núm 2 Pág: 1-2

TITLE: A THOMAS Based Multi-Agent System for Recommendations and Guidance in Malls.

- AUTHOR(S): Rodriguez S., Corchado J.M., Fernandez A., Ossowski S., Julian V., Botti V.
- JOURNAL: Journal of Physical Agents. Special Sessions on Practical Applications of Agents and Multiagent Systems. ISSN: 1888-0258
- DATE: September 2009.
- Vol. 3, Núm 2 Pág:21-26.

TITLE: Multi-Agent Architecture for Dependent Environments. Providing Solutions for Home Care.

- AUTHOR(S): Fraile J.A., Bajo J. and Corchado J.M.
- JOURNAL: Inteligencia Artificial. Special Issue 7th Ibero-American Workshop in Multi-Agent Systems (Iberagents 2008). ISSN: 1137-3601.
- DATE: June 2009.
- Vol 42 Pág:36-45.
- DOI: 10.4114/ia.v13i42.1044

TITLE: geneCBR: a translational tool for multiple-microarray analysis and integrative information retrieval for aiding diagnosis in cancer research.

- AUTHOR(S): Glez-Pena D., Diaz F., Hernandez J.M., Corchado J.M. and Fdez-Riverola F.
- JOURNAL: BMC Bioinformatics. ISSN: 1471-2105.
- DATE: June 2009.
- Vol 10, Núm 187 Pág:
- DOI: 10.1186/1471-2105-10-187

TITLE: Multi-Agent Neural Business Control System.

- AUTHOR(S): Borrajo M.L, Corchado J.M., Corchado E.S., Pellicer M.A. and Bajo J.
- JOURNAL: Information Sciences (Informatics and Computer Science Intelligent Systems Applications An International Journal. Elsevier Science. ISSN: 0020-0255.
- DATE: In Press 2009.



TITLE: Case-based reasoning as a decision support system for cancer diagnosis: A case study.

- AUTHOR(S): De Paz J.F., Rodríguez S., Bajo J. and Corchado J.M.
- JOURNAL: International Journal of Hybrid Intelligent Systems 6. IOS Press.
- DATE: In Press 2009.
- Vol 6, num 2, Pág. 97-110
- DOI: 10.3233/HIS-2009-0089

TITLE: Model of experts for decision support in the diagnosis of leukemia patients.

- AUTHOR(S): Corchado J.M., De Paz J.F., Rogríguez S and Bajo J.
- JOURNAL: Artificial Intelligence in Medicine
- DATE: July 2009.
- Vol 46, núm 3, Pág:179-200
- DOI: doi:10.1016/j.artmed.2008.12.001

TITLE: SHOMAS: Intelligent Guidance and Suggestions in Shopping Centres.

- AUTHOR(S): Bajo J., Corchado J.M., De Paz Y., De Paz J.F., Rodríguez S., Martín Q. and Abraham A.
- JOURNAL: Applied Soft Computing
- DATE: March 2009 ISSN: 1568-4946. In Press 2009.
- Vol 9, núm, 2, Pág: 851-862

TITLE: Mathematical model for dynamic case based planning.

- AUTHOR(S): De Paz J.F., Rodríguez S., Bajo J. and Corchado J.M.
- JOURNAL: International Journal of Computer Mathematics
- DATE: ISSN: 0020-7160. November 2009.
- Vol 86, núm 10–11, Pág:1719–1730
- DOI:10.1080/00207160802562556

TITLE: Forecasting the probability of finding oil slicks using a CBR system.

- AUTHOR(S): Mata A. and Corchado J.M.
- JOURNAL: Expert Systems with Applications
- DATE: In Press 2009.
- DOI: 10.1016/j.eswa.2008.10.003

TITLE: An Execution Time Neural-CBR Guidance Assistant.

- AUTHOR(S): Corchado J.M., Bajo J., De Paz J.F. and Rodríguez S.
- JOURNAL: Neurocomputing. ISSN 0925-2312
- DATE: In Press 2009.

TITLE: Integrating Case Planning and RPTW Neuronal Networks to Construct an Intelligent Environment for Health Care.

- AUTHOR(S): Bajo J., De Paz J.F., De Paz Y. and Corchado J.M.

- JOURNAL: Expert Systems with Applications. ISSN 0957-4174
- DATE: April 2009.
- Vol 36, núm 3, Pág 5844-5858

TITLE: Dynamic system for dealing with classification tasks in industrial environments.

- AUTHOR(S): Glez-Bedia M. y Corchado J.M.
- JOURNAL: Journal of Computer Science INFOCOMP. ISSN 1807-4545.
- DATE: In press, 2009.

TITLE: Neural Projection Techniques for the Visual Inspection of Network Traffic

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; GASTALDO, P.; ZUNINO, RODOLFO
- JOURNAL: Neurocomputing
- DATE: 2009.
- PUBLISHER: Elsevier
- Vol. 72, Issue 16-18, Pág. 3649-3658

TITLE: Managing Irrelevant Knowledge in CBR Models for Unsolicited Email Classification.

- AUTHOR(S): Méndez J. R. ,Glez-Peña D. , Díaz F. and Corchado J. M.
- JOURNAL: Expert System with Applications ISSN: 0957-4174. DATE: March 2009.
- Vol. 36, núm. 2, Pág. 1601-1614

TITLE: The Application of a Two-Step AI Model to an Automated Pneumatic Drilling Process.

- AUTHOR(S): J. Sedano, E. Corchado, L. Curiel, J. Villar and P.M. Bravo.
- JOURNAL: International Journal of Computer Mathematics, Published By: Taylor & Francis, ISSN 0020-7160 (indexed in the Journal Citation Index of Thompson).
- DATE: 2009.
- PUBLISHER: Taylor and Francys
- Volumen 86, Issue 10-11, Pág. 1769-1777

TITLE: MOVIH-IDS: A Mobile-Visualization Hybrid Intrusion Detection System

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; PELLICER, M.A.; AJITH, ABRAHAM
- JOURNAL: Neurocomputing
- DATE: 2009.
- PUBLISHER: Elsevier
- Volumen 72, Issue 13-15, Pág. 2775-2784

TITLE: MOVIH-IDS: A MLHL based method to an Agent-Based Architecture.

- AUTHOR(S): Emilio Corchado, María A. Pellicer, M. L. Borrajo.
- JOURNAL: International Journal of Computer Mathematics, Published By: Taylor & Francis, ISSN 0020-7160 (indexed in the Journal Citation Index of Thompson).
- DATE: 2009.



- PUBLISHER: Taylor and Francys
- Volumen 86, Issue 13-15, Pág. 1760-1768

TITLE: MOVIH-IDS: A Connectionist Knowledge Management System to Identify Knowledge Deficits in Practical Cases

- AUTHOR(S): Herrero Cosio, Alvaro; Corchado Rodríguez, Emilio Santiago; Saiz Barcena, Lourdes Cecilia; Ajith, Abraham
- JOURNAL: Computational Intelligence, An International Journal
- DATE: 2009.
- PUBLISHER: Wiley-Blackwell
- Volumen 26, Issue 1, Pág. 26-56

TITLE: An Ambient Intelligence Based Multi-Agent System for Alzheimer Health Care.

- AUTHOR(S): Tapia D.I. and Corchado J.M.
- JOURNAL: International Journal of Ambient Computing and Intelligence (IJACI) ISSN:1941-6237
- DATE: January 2009.
- Volumen 1, núm. 1, Pág. 15-26

5.1.4 Year 2008

TITLE: Multi-Agent System for Security Control on Industrial Environments.

- AUTHOR(S): Tapia D.I., De Paz J.F., Rodríguez S., Bajo J. and Corchado J.M.
- JOURNAL: International Transactions on System Science and Applications Journal. ISSN 1751-1461
- DATE: October 2008
- Volumen 4, núm. 3, Pág. 222-226

TITLE: Sistema Multiagente para la Predicción del Intercambio de CO2 en el Océano Atlántico Norte.

- AUTHOR(S): Bajo J., Corchado J.M. y Alonso V.
- JOURNAL: IEEE Latin America Transactions. ISSN: 1548-0992. Brasil.
- DATE: October 2008.
- Volumen 6, núm. 6, Pág. 493

TITLE: Special Issue. VI International Workshop on Practical Applications of Agents and Multiagent Systems, IWPAAMS 2007.

- AUTHOR(S): Bajo J., Alonso V., Joyanes L. y Corchado J.M.
- JOURNAL: IEEE Latin America Transactions. ISSN: 1548-0992. Brasil.
- DATE: October 2008.
- Volumen 6, núm. 6, Pág. 505-510

TITLE: Multiagent System For Management And Monitoring Of Surveillance Routes.

- AUTHOR(S): Tapia D.I., De Paz J.F., Rodríguez S. and Corchado J.M.
- JOURNAL: IEEE Latin America Transactions. ISSN: 1548-0992

- DATE: In Press 2009.

TITLE: **GERAmI: Improving the delivery of health care.**

- AUTHOR(S): Corchado J. M. , Bajo J. , y Abraham A.
- JOURNAL: IEEE Intelligent Systems. Special Issue on Ambient Intelligence - Mar/Apr '08. ISSN: 1541-1672
- DATE: March 2008.
- Volumen 3, núm. 2, Pág. 19-25

TITLE: **Replanning mechanism for deliberative agents in dynamic changing environments.**

- AUTHOR(S): Corchado J. M. , Gonzalez-Bedia M. , De Paz Y. , Bajo J. y De Paz J.F
- JOURNAL: Computational Intelligence ISSN: 0824-7935.
- DATE: Mayo 2008.
- Volumen 24, núm. 2, Pág. 77-107

TITLE: **An Execution Time Planner for the ARTIS Agent Architecture.**

- AUTHOR(S): Bajo J., Julian V., Corchado J. M., Carrascosa C., De Paz Y., Botti V. y De Paz J.F
- JOURNAL: Engineering Applications of Artificial Intelligence ISSN: 0925-1976.
- DATE: January 2008.
- Volumen 21, núm. 5, Pág. 769-784

TITLE: **Intelligent Environment for Monitoring Alzheimer Patients, Agent Technology for Health Care.**

- AUTHOR(S): Corchado J. M. , Bajo J. , de Paz Y. y Tapia D.
- JOURNAL: Decision Support Systems. ISSN 0167-9236. doi10.1016/j.dss.2007.04.008.
- DATE: January 2008.
- Volumen 44, núm. 2, Pág. 382-396

TITLE: **A Complex Case-based Advisor.**

- AUTHOR(S): Borrajo. M.L., Laza R. y Corchado J. M.
- JOURNAL: Applied Artificial Intelligence, An International Journal. ISSN 0883-9514.
- DATE: Mayo, 2008.
- Volumen 22, núm. 5, Pág. 377-406

TITLE: **Hybrid multi-agent architecture as a real-time problem-solving model.**

- AUTHOR(S): Carrascosa C. , Bajo J., Julian V., Corchado J. M. y Botti V.
- JOURNAL: Expert Systems With Applications. ISSN 0957-4174.
- DATE: January 2008.
- Volumen 34, núm. 1, Pág. 2-17

TITLE: **Conventional Methods and AI models for Solving an Industrial an Industrial Problem**

- AUTHOR(S): Andrés Bustillo, Javier Sedano, José Ramón Villar, Leticia Curiel, Emilio Corchado



- JOURNAL: IEEE Computer Society
- DATE: 2008
- Pág. 317-322
- ISBN: 978-0-7895-3325-4,
- DOI:10.1009

5.1.5 Year 2007

TITLE: SpamHunting: An Instance-Based Reasoning System for Spam Labelling and Filtering.

- AUTHOR(S): F. Fdez-Riverola, E. L. Iglesias, F. Díaz, J. R. Méndez y Corchado J. M.
- JOURNAL: Decision Support Systems. ISSN 0167-9236.
- DATE: April 2007.
- Volumen 43, núm. 3, Pág. 722-736 .

TITLE: Applying Lazy Learning Algorithms to Tackle Concept Drift in Spam Filtering.

- AUTHOR(S): F. Fdez-Riverola, E.L. Iglesias, F. Díaz, J.R. Méndez, Corchado J.M.
- JOURNAL: Expert Systems with Applications. ISSN 0957-4174.
- DATE: September 2007.
- Volumen 33, núm. 1, Pág. 36-48

TITLE: Reducing the Memory Size of a Fuzzy Case-Based Reasoning System Applying Rough Set Techniques.

- AUTHOR(S): Riverola F., Díaz F. y Corchado J. M.
- JOURNAL: IEEE SMC Transactions Part C. ISSN 1094-6977.
- DATE: January, 2007.
- Volumen 37, núm. 1. Pág. 138 – 146.

TITLE: Sistemas inteligentes para la detección y filtrado de correo spam: una revisión.

- AUTHOR(S): J.R. Méndez; F. Fdez-Riverola; F. Díaz; Corchado J.M.
- JOURNAL: Revista Iberoamericana de Inteligencia Artificial. ISSN 1137-3601.
- DATE: 2007.
- Pág. 63-81

TITLE: Distributed Prediction of Carbon Dioxide Exchange Using CBR-BDI Agents.

- AUTHOR(S): Bajo J., De Paz J.F., Tapia D.I. y Corchado J. M.
- JOURNAL: International Journal of Computer Science (INFOCOMP). ISSN 1807-4545.
- DATE: February 2007
- Special Edition, Feb 2007, Pág. 16 – 25.

5.1.6 Year 2006

TITLE: Gene-CBR : a case-based reasoning tool for cancer diagnosis using microarray datasets.

- AUTHOR(S): Riverola F., Díaz F. y Corchado J. M.
- JOURNAL: Computational Intelligence. ISSN 0824-7935.

- DATE: 2006.
- Volumen 22 , núm. 3-4, Pág. 254-268(15)

5.1.7 Year 2005

TITLE: Evaluating the air-sea interactions and fluxes using an instance-based reasoning system.

- AUTHOR(S): Corchado J. M., Corchado E. S., Airen J. y Riverola F.
- JOURNAL: AI Communications. ISSN 0921-7126.
- DATE: December, 2005.
- Volumen 18, Pág. 247-256.

TITLE: Development of CBR-BDI Agents.

- AUTHOR(S): Corchado J. M. y Pellicer A.
- JOURNAL: International Journal of Computer Science and Applications. ISSN: 0972-9038.
- DATE: February, 2005.
- Volumen 2, núm. 1, Pág. 25-32.

TITLE: Evaluating the air-sea interactions and fluxes using an instance-based reasoning system.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Corchado, J.M.; Aiken, J.; Fdez-Riverola, F.
- JOURNAL: AI COMMUNICATIONS
- DATE: 2005.
- Volumen 18, núm. 4, Pág. 247-256.

5.1.8 Year 2004

TITLE: An Agent-based Architecture for Developing Internet-based Applications.

- AUTHOR(S): Corchado J. M. Laza R. y Castillo- Ossa F.
- JOURNAL: UPGRADE, The European Journal for The Informatics Professional ISSN: 0211-2124.
- DATE: August, 2004.
- Volumen 5, núm. 4, Pág. 51-55.

TITLE: IBR Retrieval Method Based on Topology Preserving Mappings.

- AUTHOR(S): Corchado E. S., Corchado J. M. y Aiken J.
- JOURNAL: Journal of Experimental & Theoretical Artificial Intelligence (JETAI). Taylor & Francis. ISSN: 0952-813X print/ ISSN: 1362-3079 online.
- DATE: Julio-September, 2004
- Volumen 16, núm. 3, Pág. 145–160

TITLE: FSfRT: Forecasting System for Red Tides.

- AUTHOR(S): Fdez-Riverola F. y Corchado J. M.



- JOURNAL: Applied Intelligence. Special Issue on Soft Computing in Case-Based Reasoning. ISSN 0924-669X.
- DATE: November 2004
- Vol 21, num 3, Pág. 251-264

TITLE: Internet Agents Who Structure Concept Formation using Kernel Self-Organising Maps.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; D., M.; C., F.
- JOURNAL: International Journal of Web Engineering and Technology
- DATE: 2004
- Vol 1, num 4, Pág. 427-436

TITLE: Forecasting

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; C., F.
- JOURNAL: Neurocomputing
- DATE: 03/2004, Holland
- Vol 57, Pág. 37-47

TITLE: Maximum and Minimum Likelihood Hebbian Learning for Exploratory Projection Pursuit.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; D., M.; C., F.
- JOURNAL: DATA MINING AND KNOWLEDGE DISCOVERY
- DATE: 05/2004, Holland
- Vol 8, NÚM.3, Pág. 203-225

5.1.9 Year 2003

TITLE: Forecasting Red Tides Using an Hybrid Neuro-Symbolic System.

- AUTHOR(S): Fdez-Riverola F. y Corchado J. M.
- JOURNAL: AI Communications. ISSN0921-7126.
- DATE: November 2003.
- Volumen 16, núm. 4, Pág. 221-233.

TITLE: Increasing the Autonomy of Deliberative Agents with a Case-Based Reasoning System.

- AUTHOR(S): Corchado J. M., Laza R., Borrajo L., Yañes J. C. y Valiño M.
- JOURNAL: International Journal of Computational Intelligence and Applications. ISSN: 1469-0268.
- DATE: March 2003.
- Volumen 3, núm. 1, Pág. 101-118.

TITLE: FSfRT: Forecasting System for Red Tides. An Hybrid Autonomous AI Model.

- AUTHOR(S): Fdez-Riverola F. y Corchado J. M.
- JOURNAL: Applied Artificial Intelligence, An Internacional Journal. ISSN 0883-9514.
- DATE: November 2003.

- Volumen 17, núm. 10, Pág.: 955-982.

TITLE: Constructing Deliberative Agents with Case-based Reasoning Technology.

- AUTHOR(S): Corchado J. M. y Laza R.
- JOURNAL: International Journal of Intelligent Systems. ISSN 0884-8173.
- DATE: December 2003.
- Volumen 18 núm. 12, Pág. 1227-1241.

TITLE: CBR Based System for Forecasting Red Tides.

- AUTHOR(S): Fdez-Riverola F. y Corchado J. M.
- JOURNAL: Knowledge-Based Systems. ISSN: 0950-7051.
- DATE: Julio 2003.
- Volumen 16, num 5-6, Pág. 321-328.

TITLE: Connectionist Techniques for the Identification and Suppression of Interference Underlying Factors

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Fyfe, C.
- JOURNAL: International Journal of Pattern Recognition and Artificial
- DATE: 2003

TITLE: Orientation Selection Using Maximum Likelihood Hebbian Learning.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; C., F.
- JOURNAL: International Journal of Knowledge-Based in Intelligent Engineering Systems
- DATE: 04/2003
- Volumen 7, Number 2

TITLE: An Extension of Epsilon-insensitive Hebbian Learning to Form a Non-interfering Basis.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; C., F.
- JOURNAL: International Journal of Computational Intelligence and Applications DATE: 09/2003
- Volumen 3, Number 3, Pag. 181-296

TITLE: Structuring Global Responses of Local Filters using Lateral Connections.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Y. , H.; C., F.
- JOURNAL: Journal of experimental and theoretical artificial intelligence
- DATE: 10/2003
- Volumen 15, Number 4, Pag. 473-487

TITLE: Connectionist Techniques for the Identification and Suppression of Interference Underlying Factors.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; C., F.
- JOURNAL: International Journal of Pattern Recognition and Artificial



- DATE: 12/2003
- Volumen 12, Pag. 1447-1468

5.1.10 Year 2002

TITLE: Hybrid Artificial Intelligence Methods in Oceanographic Forecasting Models.

- AUTHOR(S): Corchado J. M. y Aiken J.
- JOURNAL: IEEE SMC Transactions Part C. ISSN 1094-6977.
- DATE: nov. 2002.
- Volumen 32, núm. 4, Pág. 307-313

TITLE: Analytical Model for Constructing Deliberative Agents.

- AUTHOR(S): Glez-Bedia M., Corchado J. M., Corchado E. S. y Fyfe C.
- JOURNAL: Engineering Intelligent Systems. CRL Publishing Ltd. ISSN 1472-8915.
- DATE: 2002.
- Volumen 10, núm. 3, Pág. 173-185.

TITLE: A Comparison of Kernel Methods for Instantiating Based Reasoning Systems.

- AUTHOR(S): Fyfe C. y Corchado J. M.
- JOURNAL: Advanced Engineering Informatics (anteriormente Artificial Intelligence in Engineering). Elsevier. ISSN 0954-1810.
- DATE: Julio 2002.
- Volumen 16, núm. 3, Pág. 165-178.

TITLE: A Planning Strategy Based on Variational Calculus for Deliberative Agents.

- AUTHOR(S): Gonzalez M. y Corchado J. M.
- JOURNAL: Computing and Information Systems Journal. ISSN: 1352-9404.
- DATE: February 2002.
- Volumen 9, núm. 2. Pág. 2-13.

TITLE: A Case-based Reasoning System for Monitoring the Longevity of Dental Restorations.

- AUTHOR(S): Vera V., Barbero Á., García E. y Corchado J. M.
- JOURNAL: Computing and Information Systems Journal. ISSN: 1352-9404.
- DATE: February 2002.
- Volumen 9, núm. 2, Pág. 14-18.

TITLE: Analytical Model for Constructing Deliberative Agents

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; CORCHADO RODRÍGUEZ, J.M.; FYFE, C.; GONZALEZ-BEDIA, M.
- JOURNAL: Engineering Intelligent Systems
- DATE: 2002.
- Volumen 10, núm. 3, Pág. 173-185.

TITLE: Extraction of Independent Causes Using Lateral Connections

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; C., F.
- JOURNAL: International Journal of Computational Intelligence and Applications
- DATE: 06/2002.
- Volumen 2, núm. 2, Pág. 115-130.

5.1.11 Year 2001

TITLE: A hybrid case-based model for forecasting.

- AUTHOR(S): Corchado J. M. y Lees B.
- JOURNAL: Applied Artificial Intelligence: An International Journal. ISSN: 0883-9514.
- DATE: February 2001.
- Volumen 15, núm. 2, Pág. 105-127

TITLE: Automating the construction of CBR Systems using Kernel Methods.

- AUTHOR(S): Fyfe C. y Corchado J. M.
- JOURNAL: International Journal of Intelligent Systems ISSN: 0884-8173
- DATE: April 2001.
- Volumen 16, núm. 4, Pág. 571-586

TITLE: Hybrid Instance-based System for Predicting Ocean Temperatures.

- AUTHOR(S): Corchado J. M., Lees B. y Aiken J.
- JOURNAL: International Journal of Computational Intelligence and Applications. Imperial College Press. ISSN:1469-0268
- DATE: March 2001.
- Volumen 1, núm. 1, Pág. 35-52

TITLE: Improving the revision stage of a CBR system with belief revision techniques.

- AUTHOR(S): Corchado J. M., Pavón R, Laza R. y Gómez A.
- JOURNAL: Computing and Information Systems Journal. ISSN:1352-9404
- DATE: Mayo 2001.
- Volumen 8, núm. 2, Pág. 40-45.

TITLE: Creation of deliberative agents using a CBR model.

- AUTHOR(S): Laza R. y Corchado J. M.
- JOURNAL: Computing and Information Systems Journal. ISSN:1352-9404
- DATE: Mayo 2001.
- Volumen 8, núm. 2, Pág. 33-39.

TITLE: Handling requirements with XML like system specifications.

- AUTHOR(S): Corchado J. M. y Domínguez A.
- JOURNAL: Computing and Information Systems Journal. ISSN: 1352-9404
- DATE: February 2001.
- Volumen 8, núm. 1, Pág. 1-8.



TITLE: The Identification of Features in Artificial Data and the Formation of Local Filters From Video Data Using the Rectified Gaussian Distribution.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; D., C.; C., F.
- JOURNAL: Computing and Information Systems Journal. ISSN: 1352-9404.
- DATE: February 2001.
- Volumen 8, núm. 1, Pág. 21-26.

TITLE: An autonomous agent based engineering sales support system.

- AUTHOR(S): Corchado J. M., Laza R., Borrajo L. y Valiño M.
- JOURNAL: Computing and Information Systems Journal. ISSN: 1352-9404
- DATE: October 2001.
- Volumen 8, núm. 3b, Pág. 138-147.

TITLE: Identification of Multiple Causes Using Backpropagation

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; fyfe, C.
- JOURNAL: Computing and Information Systems Journal. ISSN: 1352-9404.
- DATE: 2001.

TITLE: Extraction of Spatiotemporal Structure in Video Data Using Lateral Connections.

- AUTHOR(S): Corchado Rodríguez, EMILIO S.; D., C.; Y., H.; C., F.
- JOURNAL: Computing and Information Systems Journal
- DATE: 10/2001.
- Volumen 8, No. 3ª Pág. 69-76

TITLE: Identification of Multiple Causes Using -Insensitive Hebbian Learning

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; C., F.
- JOURNAL: Computing and Information Systems Journal
- DATE: 10/2001.
- Volumen 8, No. 3ª Pág. 91-100

5.1.12 Year 2000

TITLE: Sistemas híbridos neuro-simbólicos: una revisión.

- AUTHOR(S): Fdez-Riverola F. y Corchado J. M.
- JOURNAL: Revista Iberoamericana de Inteligencia Artificial. ISSN: 1137-3601.
- DATE: December 2000.
- Volumen 11. Pág. 11-26.

5.1.13 Year 1999

TITLE: Unsupervised Neural Network for Temperature Forecasting.

- AUTHOR(S): Corchado J. M. y Fyfe C.
- JOURNAL: Artificial Intelligence in Engineering. ISSN: 0954-1810.
- DATE: October 1999.
- Volumen 13, núm. 4, Pág. 351–357.

TITLE: VoIP: The Convergence of networks.

- AUTHOR(S): Valiño M. y Corchado J. M.
- JOURNAL: Computing and Information Systems Journal. ISSN: 1352-9404.
- DATE: October 1999.
- Volumen 16, núm. 3, Pág. 105-112.

5.1.14 Año 1998

TITLE: Neuro-Adaptation Method for a Case Based Reasoning System.

- AUTHOR(S): Corchado J. M., Lees B., Fyfe C., Rees N., Aiken J.
- JOURNAL: Computing and Information Systems Journal. ISSN: 1352-9404.
- DATE: February 1998.
- Volumen 5, núm. 1, Pág. 15-20.

5.2 Monographs and books

5.2.1 Year 2012

TITLE: Distributed Computing and Artificial Intelligence. 9th International Conference.

- AUTHOR(S): Sigeru Omatu, Juan F. De Paz, Sara Rodríguez, Jose M. Molina, Ana Bernardos and Juan M. Corchado (Eds.)
- DATE: March 2012
- PUBLISHER: Springer Verlag.
- ISBN: 978-3-642-28764-0

TITLE: International Workshop on evidenced-based Technology Enhanced Learning.

- AUTHOR(S): Pierpaolo Vittorini, Rosella Gennari, Ivana Marenzi, Fernando De la Prieta and Juan M. Corchado (Eds.)
- DATE: March 2012
- PUBLISHER: Springer Verlag.
- ISBN:: 978-3-642-28800-5,

TITLE: Ambient Intelligence. 3rd International Symposium on Ambient Intelligence.

- AUTHOR(S): Paulo Novais, Kasper Hallenborg, Dante I. Tapia and Juan M. Corchado (Eds.)
- DATE: March 2012
- PUBLISHER: Springer Verlag.
- ISBN: 978-3-642-28782-4

TITLE: Seventh International KMO Conference on knowledge management, Services and cloud computing.

- AUTHOR(S): Lorna Uden, Francisco Herrera, Javier Bajo and Juan M. Corchado (Eds.)
- DATE: July 2012
- PUBLISHER: Springer Verlag.
- ISBN: 978-3-642-30866-6



TITLE: Highlights in Practical Applications of Agents and Multiagent Systems. 9th International Conference on Practical Applications of Agents and Multiagent Systems.

- AUTHOR(S): Javier Bajo, Juan M. Corchado, Emmanuel Adam, Alfonso Ortega, María Moreno, Elena Navarro, Benjamin Hirsch, Henrique Lopes Cardoso, Vicente Julián, Miguel A. Sánchez and Philippe Mathieu (Eds.).
- DATE: March 2012
- PUBLISHER: Springer Verlag.
- ISBN: 978-3-642-28761-9

TITLE: Trends in Practical Applications of Agents and Multiagent Systems. 9th International Conference on Practical Applications of Agents and Multiagent Systems.

- AUTHOR(S): Juan M. Corchado, Javier Bajo, Paulina Golinska, Sylvain Giroux and Rafael Corchuelo (Eds.).
- DATE: March 2012
- PUBLISHER: Springer Verlag.
- ISBN: 978-3-642-28794-7

TITLE: International Journal of Artificial Intelligence (IJAI). Vol. 8, Num 12: Special Issue on Advances on Artificial Intelligence and Distributed Systems.

- AUTHOR(S): Javier Bajo, Pawel Pawlewski, Sara Rodriguez and Juan M. Corchado (Eds.)
- DATE: Spring 2012
- PUBLISHER: Springer Verlag.
- ISSN: 0974-0635

5.2.2 Year 2011

TITLE: Progress in Artificial Intelligence - EPIA 2011. Workshop: Ambient Intelligence Environmets

- AUTHOR(S): Dante I. Tapia, Javier Bajo, Juan F. De Paz, Ricardo S. Alonso, Sara Rodríguez and Juan M. Corchado
- DATE: April, 2011

TITLE: Soft Computing Models in Industrial and Environmental Applications, 6th International Conference SOCO 2011

- AUTHOR(S): Corchado, E.; Snasel, V.; Sedano, J.; Hassanien, A.E.; Calvo, J.L.; Slezak, D. (Eds.)
- DATE: April, 2011
- PUBLISHER: Advances in Intelligent and Soft Computing Series, Vol: 87
- ISBN: 978-3-642-19643-0

TITLE: Advances in Practical Applications of Agents and Multiagent Systems. 9th International Conference on Practical Applications of Agents and Multiagent Systems

- AUTHOR(S): Yves Demazeau, Michal Pechoucek, Juan M. Corchado and Javier Bajo (Eds.)

- DATE: April, 2011
- PUBLISHER: Advances in Intelligent and Soft Computing Series, Vol 88.
- ISBN: 978-3-642-19874-8

TITLE: Highlights in Practical Applications of Agents and Multiagent Systems. 9th International Conference on Practical Applications of Agents and Multiagent Systems

- AUTHOR(S): Javier Bajo, Juan M. Corchado, María Moreno, Vicente Julián, Philippe Mathieu, Joaquin Canada-Bago, Alfonso Ortega, Antonio Fernández (Eds.)
- DATE: April, 2011
- PUBLISHER: Advances in Intelligent and Soft Computing Series, Vol 89.
- ISBN: 978-3-642-19916-5

TITLE: Trends in Practical Applications of Agents and Multiagent Systems. 9th International Conference on Practical Applications of Agents and Multiagent Systems

- AUTHOR(S): Juan M. Corchado, Javier Bajo, Kasper Hallenborg, Paulina Golinska and Rafael Corchuelo (Eds.)
- DATE: April, 2011
- PUBLISHER: Advances in Intelligent and Soft Computing Series, Vol 90
- ISBN: 978-3-642-19930-1

TITLE: International Symposium on Distributed Computing and Artificial Intelligence. DCAI 2011

- AUTHOR(S): Abraham, A.; Corchado, J.M.; Rodríguez González, S.; de Paz Santana, J.F. (Eds.)
- DATE: April, 2011
- PUBLISHER: Advances in Intelligent and Soft Computing Series, Vol: 91
- ISBN: 978-3-642-19933-2

TITLE: Ambient Intelligence - Software and Applications. 2nd International Symposium on Ambient Intelligence (ISAmI 2011)

- AUTHOR(S): Novais, Paulo; Preuveneers, Davy; Corchado, Juan M. (Eds.)
- DATE: April, 2011
- PUBLISHER: Advances in Intelligent and Soft Computing Series, Vol: 92
- ISBN: 978-3-642-19936-3

TITLE: 5th International Conference on Practical Applications of Computational Biology & Bioinformatics

- AUTHOR(S): Rocha, M.P.; Corchado, J.M.; Fdez Riverola, F.; Valencia, A. (Eds.)
- DATE: April, 2011
- PUBLISHER: Advances in Intelligent and Soft Computing Series, Vol. 93
- ISBN: 978-3-642-19913-4



5.2.3 Year 2010

TITLE: Soft Computing Models in Industrial and Environmental Applications, 5th International Workshop (SOCO 2010).

- AUTHOR(S): Corchado, J.M.; Novais, P.; Analide, C.; Sedano, J. (Eds.)
- DATE: April, 2010
- PUBLISHER: Advances in Intelligent and Soft Computing, Vol. 73 260 p., Softcover
- ISBN: 978-3-642-13160-8

TITLE: Advances in Bioinformatics. 4th International Workshop on Practical Applications of Computational Biology and Bioinformatics 2010 (IWPACBB 2010).

- AUTHOR(S): Rocha M.P., Fernández Riverola F., Shatkay, H., Corchado J.M (Eds.)
- DATE: April, 2010
- PUBLISHER: Advances in Intelligent and Soft Computing, Vol. 74 240 p., Softcover
- ISBN: 978-3-642-13213-1

TITLE: Advances in Practical Applications of Agents and Multiagent Systems.

- AUTHOR(S): Demazeau, Y.; Dignum, F.; Corchado, J.M.; Bajo, J. (Eds.)
- DATE: April, 2010
- PUBLISHER: Series: Lecture Notes in Computer Science Subseries: Theoretical Computer Science and General Issues , Vol. 70 300 p., Softcover
- ISBN: 978-3-642-12383-2

TITLE: Trends in Practical Applications of Agents and Multiagent Systems.

- AUTHOR(S): Pawlewski, P.; Julián, V.J.; Fernández-Riverola, F.; Corchado, E.; Corchuelo, R.; Bajo, J.; Corchado, J.M.; Dignum, F.; Demazeau, Y.; Campbell, A. (Eds.)
- DATE: April, 2010
- PUBLISHER: Series: Lecture Notes in Computer Science Subseries: Theoretical Computer Science and General Issues , Vol. 71 700 p., Softcover
- ISBN: 978-3-642-12432-7

5.2.4 Year 2009

TITLE: Bio-Inspired Systems: Computational and Ambient Intelligence. 10th International Work-Conference on Artificial Neural Networks, IWANN 2009.Part I

- AUTHOR(S): Cabestany Moncusi, J.; Sandoval, F.; Prieto, A.; Corchado, J.M. (Eds.)
- DATE: June, 2009
- PUBLISHER: Series: Lecture Notes in Computer Science Subseries: Theoretical Computer Science and General Issues , Vol. 5517 2009, LI, 1356 p., Softcover ISBN: 978-3-642-02477-1

TITLE: Distributed Computing, Artificial Intelligence, Bioinformatics, Soft Computing, and Ambient Assisted Living. 10th International Work-Conference on Artificial Neural Networks, IWANN 2009 . Part II

- AUTHOR(S): Omatu, S.; Rocha, M.P.; Bravo, J.; Fernández-Riverola, F.; Corchado, E.; Bustillo, A.; Corchado, J.M. (Eds.)

- DATE: June 2009
- PUBLISHER: Series: Lecture Notes in Computer Science. Subseries: Theoretical Computer Science and General Issues , Vol. 5518. 2009, LII, 1304 p., Softcover. ISBN: 978-3-642-02480-1

TITLE: 7th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'09).

- AUTHOR(S): Yves Demazeau, Juan Pavón, Juan M. Corchado, Javier Bajo (Eds.)
- DATE: October 2008
- PUBLISHER: Springer-Verlag - Advances in Soft Computing , Vol. 55, 2009, XII, 592 p. 131 illus., Softcover.
- ISBN: 978-3-642-00486-5

TITLE: Comercio y negocio electrónico, Volumen 1: Alternativas y entorno tecnológico

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez, Javier Bajo Pérez, Sara Rodríguez González y Juan Francisco De Paz Santana (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7976-2

TITLE: Comercio y negocio electrónico, Volumen 2: Aspectos complementarios

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez, Javier Bajo Pérez, Sara Rodríguez González y Juan Francisco De Paz Santana (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7977-9

TITLE: Comercio y negocio electrónico, Volumen 3: Lenguajes de programación

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez, Javier Bajo Pérez, Sara Rodríguez González y Juan Francisco De Paz Santana (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7978-6

TITLE: Avances en seguridad aplicada al comercio electrónico, Seguridad en redes desarrollo seguro de aplicaciones seguras

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco De Paz Santana, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez (eds.)
- DATE: December 2009



- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7979-3

TITLE: Avances en seguridad aplicada al comercio electrónico, Auditoría Informática y Aspectos legales

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco De Paz Santana, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7980-9

TITLE: Avances en telefonía móvil aplicada al comercio electrónico, Tecnologías

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco De Paz Santana, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7988-5

TITLE: Avances en telefonía móvil aplicada al comercio electrónico, Lenguajes

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco De Paz Santana, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7987-8

TITLE: Introducción al comercio electrónico

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco De Paz Santana, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7974-8

TITLE: Legislación y metodologías CMMI

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco De Paz Santana, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7972-4

TITLE: Diseño de páginas Web

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco De Paz Santana, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7971-7

TITLE: Implantación de sistemas para accesibilidad Web

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco De Paz Santana, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7970-0

TITLE: Puesta en Marcha y desarrollo de la Web 3.0. Internet del Futuro

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco De Paz Santana, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7969-4

TITLE: Seguridad en el comercio electrónico. Firma digital. Medios de pago

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco De Paz Santana, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7968-7-8

TITLE: Marketing electrónico y atención al cliente

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco De Paz Santana, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez (eds.)
- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7967-0

TITLE: Liderazgo y coaching en PYMEs

- AUTHOR(S): Juan Manuel Corchado Rodríguez, Javier Bajo Pérez, Sara Rodríguez González, Juan Francisco De Paz Santana, Fernando de la Prieta Pintado, Oscar Gil Gonzalo, Davinia Carolina Zato Domínguez (eds.)



- DATE: December 2009
- PUBLISHER: University of Salamanca
- ISBN: 978-84-692-7962-5

5.2.5 Year 2008

TITLE: 3rd Symposium of Ubiquitous Computing and Ambient Intelligence.

- AUTHOR(S): Juan M. Corchado, Dante I. Tapia, José Bravo(Eds.)
- DATE: October 2008
- PUBLISHER: Springer-Verlag - Advances in Soft Computing , Vol. 51, 2008, XII, 354 p. 209 illus., Softcover.
- ISBN: 978-3-540-85866-9

TITLE: International Symposium on Distributed Computing and Artificial Intelligence. (DCAI'08)

- AUTHOR(S): Juan M. Corchado, Sara Rodriguez, James Llinas, J.M. Molina(Eds.)
- DATE: October 2008
- PUBLISHER: Springer-Verlag - Advances in Soft Computing , Vol. 50, 2008, XVIII, 760 p. 277 illus., Softcover.
- ISBN: 978-3-540-85862-1

TITLE: 2nd International Workshop on Practical Applications of Computational Biology and Bioinformatics (IWPACBB 2008).

- AUTHOR(S): Juan M. Corchado, Juan F. De Paz, Miguel P. Rocha, Florentino Fernández Riverola(Eds.)
- DATE: October 2008
- PUBLISHER: Springer-Verlag - Advances in Soft Computing , Vol. 49, 2008, XII, 254 p. 79 illus., Softcover.
- ISBN: 978-3-540-85860-7

5.2.6 Year 2007

TITLE: 12th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2007

- AUTHOR(S): Daniel Borrajo, Luis Castillo and Juan M. Corchado
- DATE: November 2007
- PUBLISHER: Daniel Borrajo, Luis Castillo and Juan M. Corchado (Eds.), Lecture Notes in Computer Science , Vol. 4788
- ISBN: 978-3-540-75270-7

TITLE: Actas de la XII Conferencia de la Asociación Española para la Inteligencia Artificial.

- AUTHOR(S): Daniel Borrajo, Luis Castillo and Juan M. Corchado
- DATE: November 2007
- PUBLISHER: Daniel Borrajo, Luis Castillo and Juan M. Corchado (Eds.), University of Salamanca
- ISBN: 978-84-611-8846-8.

TITLE: Actas de la XII Conferencia de la Asociación Española para la Inteligencia Artificial. Volumen 1

- AUTHOR(S): Daniel Borrajo, Luis Castillo and Juan M. Corchado
- DATE: November 2007
- PUBLISHER: Daniel Borrajo, Luis Castillo and Juan M. Corchado (Eds.), University of Salamanca
- ISBN: 978-84-611-8847-5.

TITLE: Actas de la XII Conferencia de la Asociación Española para la Inteligencia Artificial. Volumen 2

- AUTHOR(S): Daniel Borrajo, Luis Castillo and Juan M. Corchado
- DATE: November 2007
- PUBLISHER: Daniel Borrajo, Luis Castillo and Juan M. Corchado (Eds.), University of Salamanca
- ISBN: 978-84-611-8848-2.

TITLE: 6th International Workshop on Practical Applications of Agents and Multiagent Systems.

- AUTHOR(S): Javier Bajo , Vidal Alonso, Luis Joyanes and Juan M. Corchado (Eds.).
- DATE: October 2007.
- PUBLISHER: University of Salamanca.
- ISBN: 978-84-611-8858-1

TITLE: 6th International Workshop on Practical Applications of Agents and Multiagent Systems.

- AUTHOR(S): Javier Bajo , Vidal Alonso, Luis Joyanes and Juan M. Corchado (Eds.).
- DATE: October 2007.
- PUBLISHER: University of Salamanca.
- ISBN: 978-84-611-8858-1

TITLE: Bioinformatics and Chemoinformatics Intelligent Systems (BaCHis 2007).

- AUTHOR(S): José Luis López, Aitor Mata , Javier Bajo and Juan M. Corchado (Eds.)
- DATE: October 2007
- PUBLISHER: University of Salamanca.
- ISBN: 978-84-611-8849-9

TITLE: Hybrid Artificial Intelligence Systems. HAIS 2006.

- AUTHOR(S): Javier Bajo , Emilio S. Corchado , Álvaro Herrero and Juan M. Corchado (Eds.)
- DATE: February 2007
- PUBLISHER: University of Salamanca.
- ISBN: 84-934181-9-6

TITLE: Hybrid Artificial Intelligence Systems



- AUTHOR(S): Emilio S. Corchado , Juan M. Corchado and Ajith Abraham (Eds.)
- DATE: November 2007
- PUBLISHER: Advances in Soft Computing Series Vol: 44 . Springer Verlag.
- ISBN 978-3-540-74971-4 .

5.2.7 Year 2006

TITLE: **Avances en Comercio Electrónico Volumen 5**

- AUTHOR(S): Juan M. Corchado , J. Siles, J. Sanz, J.S. Delgado and C. Delgado (Eds.)
- DATE: 2006 .
- PUBLISHER: University of Salamanca.
- ISBN: 84-934181-8-8

TITLE: **5th International Workshop on Practical Applications on Agents and Multiagent Systems**

- AUTHOR(S): Fernando Díaz , Juan M. Corchado and Florentino Fernández (Eds.)
- DATE: October 2006.
- PUBLISHER: Universidad de Valladolid.
- ISBN: 84-934181-7-X

5.2.8 Year 2005

TITLE: **Seguridad en Gestión de Redes y Servidores.**

- AUTHOR(S): Corchado J. M. (Ed.)
- DATE: November 2005.
- PUBLISHER: University of Salamanca.
- ISBN: 84-934181-2-9.

TITLE: **Programación Segura de Aplicaciones.**

- AUTHOR(S): Corchado J. M. (Ed.)
- DATE: November 2005.
- PUBLISHER: University of Salamanca.
- ISBN: 84-934181-3-7.

TITLE: **Auditoria de Seguridad.**

- AUTHOR(S): Corchado J. M. (Ed.)
- DATE: November 2005.
- PUBLISHER: University of Salamanca.
- ISBN: 84-934181-4-5.

TITLE: **Aspectos Legales de la Seguridad.**

- AUTHOR(S): Corchado J. M. (Ed.)
- DATE: November 2005.
- PUBLISHER: University of Salamanca.

- ISBN: 84-934181-5-3.

TITLE: Avances en Comercio Electrónico - Volumen 4.

- AUTHOR(S): Corchado J. M., Molpeceres F., García M., Siles J. y Marcos D. (Eds.)
- DATE: January 2005.
- PUBLISHER: University of Salamanca.
- ISBN: 84-934181-0-2.

5.2.9 Year 2004

TITLE: Avances en Comercio Electrónico - Volumen 3.

- AUTHOR(S): Corchado J. M., Molpeceres F., García M., Siles J. y Marcos D. (Eds.)
- DATE: November 2004.
- PUBLISHER: University of Salamanca.
- ISBN: 84-932864-9-4.

TITLE: Avances en Comercio Electrónico - Volumen 2.

- AUTHOR(S): Corchado J. M., Molpeceres F., García M., Siles J. y Marcos D. (Eds.)
- DATE: November 2004.
- PUBLISHER: University of Salamanca.
- ISBN: 84-932864-8-6.

TITLE: Avances en Comercio Electrónico - Volumen 1.

- AUTHOR(S): Corchado J. M., Molpeceres F., García M., Siles J. y Marcos D. (Eds.)
- DATE: November 2004.
- PUBLISHER: University of Salamanca.
- ISBN: 84-932864-7-8.

5.2.10 Year 2002

TITLE: Comercio Electrónico, Volumen 3.

- AUTHOR(S): Corchado J. M., Siles J., Alonso L. y Molpeceres F. (Eds.)
- DATE: November 2002.
- PUBLISHER: University of Salamanca.
- ISBN: 84-932864-4-3 .

TITLE: Comercio Electrónico, Volumen 2.

- AUTHOR(S): Corchado J. M., Siles J., Alonso L. y Molpeceres F. (Eds.)
- DATE: November 2002.
- PUBLISHER: University of Salamanca.
- ISBN: 84-932864-3-5.

TITLE: Comercio Electrónico, Volumen 1.

- DATE: Corchado J. M., Siles J. Alonso L. y Molpeceres F. (Eds.) DATE: November 2002.



- PUBLISHER: University of Salamanca.
- ISBN: 84-932864-1-9 .

TITLE: 1st International Workshop on Practical Applications of Agents and Multiagent System.

- AUTHOR(S): Corchado J. M., Siles J. A., Alonso L., Molpeceres F., García M., Díaz F. y Fdez-Riverola F. (Eds.)
- DATE: October 2002.
- PUBLISHER: University of Salamanca.
- ISBN: 84-932864-27 .

TITLE: Introducción a la Teoría de Agentes y Sistemas Multiagente.

- AUTHOR(S): Corchado J. M. y Molina J. M.
- DATE: September 2002.
- PUBLISHER: Edite Publicaciones Científicas,
- ISBN: 84-96086-00-3 .

TITLE: Knowledge Management.

- AUTHOR(S): Joyanes L., Fyfe C., Alonso L. y Corchado J. M. (Eds.)
- DATE: August 2002.
- PUBLISHER: Universidad de Paisley, UK.
- ISBN : 8495721-21-X .

TITLE: Artificial Neural Networks in Pattern Recognition.

- AUTHOR(S): Corchado J. M., Alonso L. y Fyfe C. (Eds.)
- DATE: August 2002.
- PUBLISHER: Universidad de Paisley, UK.
- ISBN : 8495721-22-8 .

5.2.11 Year 2001

TITLE: Modelo VoIP Como Solución Para la Convergencia de Redes.

- AUTHOR(S): Valiño M. y Corchado J. M.
- DATE: Julio 2001.
- PUBLISHER: University of Salamanca.
- ISBN: 84-95780-03-8 .

TITLE: Intelligence Models for Oceanographic Forecasting.

- AUTHOR(S): Corchado J. M., Aiken J. y Rees N.
- DATE: September 2001.
- PUBLISHER: Plymouth Marine Laboratory, UK.
- ISBN: 0-9519618-4-5.

TITLE: Early Vision and the Identification of Multiple Causes in Data

- AUTHOR(S): Corchado Rodríguez, E.S.; D., C.; C., F.

- DATE: 2001.
- PUBLISHER: Aica Ediciones S.L.

5.2.12 Year 2000

TITLE: **Actas del Simposio Español de Informática Distribuida.**

- AUTHOR(S): Barro S., Busta J. M., Corchado J. M. y Cuesta P. (Eds.)
- DATE: Julio 2001.
- PUBLISHER: Universidade de Vigo.
- ISBN: 84-8158-163-1.

TITLE: **Redes Neuronales Artificiales: Un enfoque Práctico.**

- AUTHOR(S): Corchado J. M., Díaz F., Borrajo L. y Fdez-Riverola F.
- DATE: September 2000.
- PUBLISHER: Universidade de Vigo.
- ISBN: 84-8158-145-3.

5.2.13 Year 1999

TITLE: **Virtual Engineering and Emergent Computing. Proceedings of ISAS'99.**

- AUTHOR(S): Torres M, Sánchez B., Corchado J. M. y Andina D. (Eds.)
- DATE: August 1999.
- PUBLISHER: IIIS, USA.
- ISBN: 980-07-5914-X.

5.3 Book chapters

5.3.1 Year 2012

TITLE: **Inteligencia Ambiental. (Ambient Intelligence)**

- BOOK: Mecanismos y nuevas estrategias para la formación e integración laboral de personas sordas.
- DATE: 2012
- AUTHOR(S): Javier Bajo, Montserrat Mateos, Sara Rodríguez, Carolina Zato, Gabriel Villarrubia, Alejandro Sánchez, Juan M. Corchado.
- PUBLISHER: Universidad Pontificia de Salamanca.
- ISBN: 978-84-7299-946-6, pp. 189-226.

TITLE: **Plataforma para Facilitar la Integración Laboral de Personas Sordas.**

- BOOK: Mecanismos y nuevas estrategias para la formación e integración laboral de personas sordas.
- DATE: 2012
- AUTHOR(S): Alejandro Sánchez, Fernando Valderrey, Gabriel Villarrubia, Montserrat Mateos, Sara Rodríguez, Carolina Zato, Javier Bajo, Juan M. Corchado..
- PUBLISHER: Universidad Pontificia de Salamanca.
- ISBN: 978-84-7299-946-6, pp. 227-254.



5.3.2 Year 2011

TITLE: Image Processing to Detect and Classify Situations and States of Elderly People

- BOOK: Soft Computing Models In Industrial And Environmental Applications, 6th International Conference (SOCO 2011)
- DATE: 2011-04
- AUTHOR(S): Reig-Bolaño R., Marti-Puig P., Bajo J., Rodríguez S., De Paz J.F., and Rubio M.
- PUBLISHER: Corchado, E.; Snasel, V.; Sedano, J.; Hassanien, A.E.; Calvo, J.L.; Slezak, D. (Eds.) Advances in Intelligent and Soft Computing. Springer Verlag
- ISBN: 978-3-642-19643-0

TITLE: A System for Multi-label Classification of Learning Objects

- BOOK: Soft Computing Models In Industrial And Environmental Applications, 6th International Conference (SOCO 2011) vol.: 87 pag.: 523-531
- AUTHOR(S): Vivian F. López Batista, Fernando Prieta Pintado, Ana Belén Gil, Sara Rodríguez and María N. Moreno
- PUBLISHER: Corchado, E.; Snasel, V.; Sedano, J.; Hassanien, A.E.; Calvo, J.L.; Slezak, D. (Eds.) Advances in Intelligent and Soft Computing. Springer Verlag
- DATE: 2011-04
- ISBN: 978-3-642-19643-0

TITLE: Computational Intelligence Techniques for Classification in Microarray Analysis.

- AUTHOR(S): De Paz J.F., Bajo J., Rodríguez S., and Corchado J.M.
- BOOK: Computational Intelligence in Healthcare 4, SCI 309.
- DATE: In Press
- PUBLISHER: I. Bichindaritz et al. (Eds.): Springer Verlag.

5.3.3 Year 2009

TITLE: SiC: An agent based architecture for preventing and detecting attacks to ubiquitous databases.

- AUTHOR(S): Pinzón C., De Paz Y., Bajo J., Abraham A. and Corchado J.M.
- BOOK: Advances in Intelligent Multimedia and Pervasive Computing, Part II - Ambient Intelligence and Ubiquitous Computing.
- DATE: September 2009
- PUBLISHER: Aboul-Ella Hassanien, Jemal H. Abawajy, Ajith Abraham, Hani Hagraas (Eds.). Series in Computer Communications and Networks. Springer Verlag.
- ISBN: In Press

TITLE: OSM: modeling and monitoring the evolution of oil slicks in open oceans.

- AUTHOR(S): Mata A., Corchado J.M. and Rodríguez S.
- BOOK: Agent Technology and Environment.
- DATE: September 2009
- PUBLISHER: Ulises Cortés & Manel Poch,

TITLE: A Distributed Ambient Intelligence Based Multi-Agent System for Alzheimer Health Care.

- AUTHOR(S): Tapia D.I., Rodríguez S. and Corchado J.M.
- BOOK: Advances in Intelligent Multimedia and Pervasive Computing, Part II - Ambient Intelligence and Ubiquitous Computing.
- DATE: September 2009
- PUBLISHER: Aboul-Ella Hassanien, Jemal H. Abawajy, Ajith Abraham, Hani Hagra (Eds.). Series in Computer Communications and Networks. Springer Verlag.
- ISBN: In Press

TITLE: HoCaMA: Home Care Hybrid Multiagent Architecture.

- AUTHOR(S): Fraile J.A., Bajo J., Abraham A., and Corchado J.M.
- BOOK: Advances in Intelligent Multimedia and Pervasive Computing, Part II - Ambient Intelligence and Ubiquitous Computing.
- DATE: September 2009
- PUBLISHER: Aboul-Ella Hassanien, Jemal H. Abawajy, Ajith Abraham, Hani Hagra (Eds.). Series in Computer Communications and Networks. Springer Verlag.
- ISBN: 978-1-84882-598-7

TITLE: Mining Network Traffic Data for Attacks through MOVICAB-IDS

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, E.S.
- BOOK: Bio-Inspired Data Mining Theoretical Foundations and Applications (In press)
- DATE: 2009
- PUBLISHER: Springer

5.3.4 Year 2008

TITLE: Planning Agent for Health Care: Ambient Intelligence in Practice.

- AUTHOR(S): Bajo J., Tapia D.I. and Corchado J.M.
- BOOK: Encyclopedia of Artificial Intelligence.
- DATE: Julio 2008
- PUBLISHER: AJuan R. Rabuñal, Julian Dorado & Alejandro Pazos (Eds.). Information Science Reference (IGI Global). ISBN: 978-1-59904-849-9 (hardcover)
- ISBN: 978-1-59904-850-5 (ebook), Vol: 3, pp: 1316-1322

TITLE: An Ambient Intelligence Based Multi-Agent Architecture.

- AUTHOR(S): Tapia D.I., Bajo J., Sánchez J.M., Corchado J.M.
- BOOK: Developing Ambient Intelligence. Proceedings of the second International Conference on Ambient Intelligence developments (Aml.d'07).
- DATE: Mayo 2008
- PUBLISHER: Maña A. and Rudolph C. (Eds.) Springer Science, Springer Verlag.
- ISSN 0302-9743. ISBN: 978-2-287-78543-6, pp. 68-78.



TITLE: A CBR Agent for Monitoring the Carbon Dioxide Exchange Rate from Satellite Images.

- AUTHOR(S): Corchado J.M., Aiken J., Bajo J.
- BOOK: Petra Perner (Ed.) Case-Based Reasoning on Images and Signals.
- DATE: 2008
- PUBLISHER: Birkhäuser Basel (Springer-Verlag)
- ISBN: 978-3-540-73178-8.

TITLE: Agent Applications in Tourism.

- AUTHOR(S): Moreno A., Bajo J., Botti V., Corchado J.M., Illarramendi A., Ilarri S., Julián V., López M.A., Marsá I., Mena E., Pavón J. and Valls A.
- BOOK: Issues in Multi-Agent Systems: The AgentCities.ES Experience
- DATE: 2008
- PUBLISHER: Birkhäuser Basel (Springer-Verlag)
- ISBN: 3764385421.

TITLE: Ubiquitous computing for mobile environments.

- AUTHOR(S): Molina J.M., Corchado J.M. and Bajo J.
- BOOK: Issues in Multi-Agent Systems: The AgentCities.ES Experience
- DATE: 2008
- PUBLISHER: Birkhäuser Basel (Springer-Verlag)
- ISBN: 3764385421.

TITLE: Cognitive Abilities in Agents.

- AUTHOR(S): López B., Fernández S., Bajo J., Corchado J.M., Fuentetaja R., Gonzalez M., Isern D., Jiménez S. and Valls A.
- BOOK: Issues in Multi-Agent Systems: The AgentCities.ES Experience
- DATE: 2008
- PUBLISHER: Birkhäuser Basel (Springer-Verlag)
- ISBN: 3764385421.

TITLE: Physical Agents.

- AUTHOR(S): Julian V., Carrascosa C., Corchado J.M., Bajo J., Acebo E., Innocenti B. and Botti V.
- BOOK: Issues in Multi-Agent Systems: The AgentCities.ES Experience
- DATE: 2008
- PUBLISHER: Birkhäuser Basel (Springer-Verlag)
- ISBN: 3764385421.

TITLE: A CBR system, the core of an ambient intelligence health care application.

- AUTHOR(S): Corchado J.M., Bajo J. and De Paz Y.
- BOOK: Soft Computing Applications in Industry
- DATE: April 2008
- PUBLISHER: Bhanu Prasad (Ed.), Springer Verlag.

- ISSN: 1434-9922 (Print) 1860-0808 (Online). Studies in Fuzziness and Soft Computing, Vol: 226, pp. 311-330. DOI: 10.1007/978-3-540-77465-5

5.3.5 Year 2007

TITLE: An Ambient Intelligence Based Multi-Agent Architecture.

- AUTHOR(S): Tapia D. I., Bajo J., Sánchez J.M. and Corchado J.M.
- BOOK: Aml.d 2007.
- DATE: November 2007
- PUBLISHER: Springer Science, Springer Verlag.
- ISSN 0302-9743.

TITLE: A CBP agent for monitoring the ocean CO2 exchange rate.

- AUTHOR(S): Corchado J. M., J. Bajo and J. Aiken
- BOOK: Case-Based Reasoning on Signals and Images
- DATE: September 2007
- PUBLISHER: Series Computational Intelligence, Springer Verlag, Berlin, UK.

TITLE: Auto-Associative Neural Techniques for Intrusion Detection Systems

- AUTHOR(S): HERRERO COSIO, ALVARO; ZUNINO, RODOLFO; Corchado Rodríguez, Emilio Santiago; GASTALDO, PAOLO; PICASSO, FRANCESCO
- BOOK: IEEE International Symposium on Industrial Electronics
- DATE: 2007

TITLE: Deliberative Agents for Intrusion Detection

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; PELLICER FIGUERAS, MARIA ASSUMPCIÓ; ABRAHAM, AJITH
- BOOK: Artificial Intelligence and its Applications: From Theory to Practice
- DATE: 2007

5.3.6 Year 2006

TITLE: A Guiding Agent: smart dynamic technology for solving distributed problems.

- AUTHOR(S): Corchado E. S., Pellicer M. A. y Corchado J. M.
- BOOK: Nature Inspired Smart Information Systems: In press
- DATE: November 2006
- PUBLISHER: NISIS, Alemania.

5.3.7 Year 2005

TITLE: Modelos y Arquitecturas de Agente.

- AUTHOR(S): Corchado J. M.
- BOOK: Agentes Software y Sistemas Multiagente. Perez de la Cruz J. L. (Ed.)
- DATE: January 2005
- PUBLISHER: Pearson Educación. ISBN84-205-4367-5. Invitado a escribir el capítulo.



5.3.8 Year 2004

TITLE: A Cooperative Unsupervised Architecture to Develop a Business Management Model.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; HERRERO COSIO, ALVARO; BARUQUE ZANON, BRUNO; R., Redondo; L., Sáiz; C., Fyfe
- BOOK: Tendencias de la Minería de Datos en España. Red Española de Minería de Datos. TIC2002-11124.
- PUBLISHER: Raúl Giradles, José Riquelme, Jesús Aguilar-Ruiz
- Pág. 253-262

TITLE: A Cooperative Unsupervised Architecture to Develop a Business Management Model.

- AUTHOR(S): HERRERO COSIO, ALVARO; REDONDO GUEVARA, RAQUEL; Corchado Rodríguez, Emilio Santiago; SAIZ BARCENA, LOURDES CECILIA; LARA PALMA, ANA MARIA; FYFE, COLIN
- BOOK: Tendencias de la Minería de Datos en España. Red Española de Minería de Datos.
- DATE: 2004
- PUBLISHER: Raúl Giradles, José Riquelme, Jesús Aguilar-Ruiz
- Pág. 253-262

TITLE: Redes Neuronales Artificiales. Capítulo 13.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; C., Fyfe
- BOOK: Introducción a la Minería de Datos.
- PUBLISHER: Pearson Educación S.A. (Prentice Hall/Addison-Wesley)
- DATE: 2004

5.3.9 Year 2003

TITLE: Neuro-symbolic Reasoning System for Modeling Complex Behaviours.

- AUTHOR(S): Corchado J. M., Aiken J. y Rees N.
- BOOK: Innovation in knowledge Engineering. Faucher C., Jain L. y Ichalkaranje N. (eds.).
- DATE: Mayo 2003.
- PUBLISHER: Advanced Knowledge International, Australia
- ISBN 0-9751004-0-8.

TITLE: Constructing Autonomous Distributed Systems using CBR-BDI Agents.

- AUTHOR(S): Glez-Bedia M. y Corchado J. M.
- BOOK: Innovation in knowledge Engineering. Faucher C., Jain L. y Ichalkaranje N. (eds.).
- DATE: Mayo 2003.
- PUBLISHER: Advanced Knowledge International, Australia
- ISBN 0-9751004-0-8.

TITLE: CBR Systems: a Methodology for Solving Dynamic Problems.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Corchado, J.; Aiken, J.
- BOOK: Taller: Aplicaciones de la Inteligencia Artificial en la Ingeniería, X CAEPIA-V TTIA'2003.
- DATE: November 2003
- PUBLISHER: José Manuel Molina y Jesús García Herrero (Eds.).

TITLE: Constructing Deliberative Agents Using K-SIM Case-Based Reasoning Systems

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Corchado, J.; Glez-Bedia, M.; de Luis, A.; Castillo, L.
- BOOK: Taller: Agentes Inteligentes en el Tercer Milenio, X CAEPIA-V TTIA'2003.
- DATE: November 2003
- PUBLISHER: Antonio Moreno (Eds.)
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TITLE: Constructing Deliberative Agents Using K-SIM Case-Based Reasoning Systems

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Corchado, J.; Glez-Bedia, M.; de Luis, A.; Castillo, L.
- BOOK: Taller: Agentes Inteligentes en el Tercer Milenio, X CAEPIA-V TTIA'2003.
- DATE: November 2003
- PUBLISHER: Antonio Moreno (Eds.)
- Pag. 1-9

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- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Corchado, J.; Fyfe, C.
- BOOK: Taller: Planificación, Scheduling y Razonamiento Temporal, X CAEPIA-V TTIA'2003.
- DATE: November 2003
- PUBLISHER: Castillo Luis y Salido Miguel A.
- Pag. 39-47

5.3.10 Year 2002

TITLE: The Formation of Local Spatiotemporal Filters From Video of Natural Images.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago
- BOOK: Innovation in knowledge Engineering. Faucher C., Jain L. y Ichalkaranje N. (eds.).
- DATE: Mayo 2002.
- PUBLISHER: Imprenta Catedral. Eds. Alonso L., Fyfe C and Corchado J. M.

5.3.11 Year 2001

TITLE: The Use of The Rectified Gaussian Distribution for Spatiotemporal Filters Generation.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Charles, D; Fyfe, C.; Alonso, L.



- BOOK: III Taller Airene-Aplicaciones e Implementaciones de Redes Neuronales en Reconocimiento de Patrones.
- DATE: 05/2001

5.3.12 Year 2000

TITLE: Adaptation of Cases for Case-based Forecasting with Neural Network Support.

- AUTHOR(S): Corchado J. M. y Lees B.
- BOOK: Soft Computing in Case Based Reasoning. Pal S.K, Dillon T.S. y Yeung D.S. (eds.).
- DATE: March 2000.
- PUBLISHER: Springer Verlag, London, U.K.
- ISBN 1-85233262-X.

5.4 Lecture Notes Computer Sciences (LNCS)

5.4.1 Year 2011

TITLE: Organizations of Agents in Information Fusion Environments

- BOOK: Progress in Artificial Intelligence - EPIA 2011
- AUTHOR(S): Dante I. Tapia, Fernando De La Prieta, Sara Rodríguez González, Javier Bajo and Juan M. Corchado
- PUBLISHER: Lecture Notes in Artificial Intelligence. Antunes, Luis; Pinto, H. Sofia (Eds.) 2011. Springer Verlag
- DATE: 2011-10
- ISBN: 978-3-642-24768-2. Vol.: 7026 pag.: 59-71

TITLE: Multiagent-based middleware for the agents'behavior simulation

- AUTHOR(S): Elena García, Sara Rodríguez, Juan F. De Paz and Juan M. Corchado
- BOOK: 11th International Work-Conference on Artificial Neural Networks, IWANN 2011, Torremolinos-Málaga, Spain, June 8-10, 2011, Proceedings, Part II
- DATE: June 2011
- PUBLISHER: Cabestany, Joan; Rojas, Ignacio; Joya, Gonzalo (Eds.) Springer Verlag.
- ISBN: ISBN 978-3-642-21497-4 Lecture Notes in Computer Science, Vol. 6692 1st Edition., 2011, XXXVII, 690 p. pp 629-636. Url: http://dx.doi.org/10.1007/978-3-642-21498-1_79

TITLE: Improving a Telemonitoring System based on Heterogeneous Sensor Networks.

- AUTHOR(S): Ricardo S. Alonso, Dante I. Tapia, Javier Bajo, Sara Rodríguez and Juan M. Corchado
- BOOK: Advances in Computational Intelligence. 11th International Work-Conference on Artificial Neural Networks, IWANN 2011, Proceedings, Part II.
- DATE: June 2011
- PUBLISHER: Cabestany, Joan; Rojas, Ignacio; Joya, Gonzalo (Eds.) Springer Verlag.
- ISBN: 978-3-642-21497-4, LNAI 6692, ISSN: 0302-9743.

5.4.2 Year 2010

TITLE: HERA: A New Platform for Embedding Agents in Heterogeneous Wireless Sensor Networks.

- AUTHOR(S): Alonso R.S., De Paz J.F., García Ó., Gil Ó., and González A.
- BOOK: Proceedings of HAIS'10.
- DATE: 2010
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-642-13802-7. Vol 6077. Pág. 111–118

TITLE: Enhanced Self Organized Dynamic Tree Neural Network.

- AUTHOR(S): De Paz J.F., Rodríguez S., Gil A., Corchado J.M. and Vega P.
- BOOK: Proceedings of HAIS'10.
- DATE: 2010
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-642-13802-7. Vol 6077. Pág. 85–92

TITLE: Hybrid Multiagent System for Automatic Object Learning Classification.

- AUTHOR(S): Gil A., de la Prieta F., and López V.F.
- BOOK: Proceedings of HAIS'10.
- DATE: 2010
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-642-13802-7. Vol 6077. Pág. 61–68

TITLE: Protecting Web Services against DoS Attacks: A Case-Based Reasoning Approach.

- AUTHOR(S): Pinzón C., De Paz J.F., Zato C., and Bajo J.
- BOOK: Proceedings of HAIS'10.
- DATE: 2010
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 9978-3-642-13768-6. Vol 6076. Pág. 229–236

TITLE: CBRid4SQL: A CBR Intrusion Detector for SQL Injection Attacks.

- AUTHOR(S): Pinzón C., Herrero Á., De Paz J.F., Corchado E., and Bajo J.
- BOOK: Proceedings of HAIS'10.
- DATE: 2010
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-642-13802-7. Vol 6077. Pág. 510–519

TITLE: Agents and Computer Vision for Processing Stereoscopic Images.

- AUTHOR(S): Rodríguez S., de la Prieta F., Tapia D.I., and Corchado J.M.
- BOOK: Proceedings of HAIS'10.
- DATE: 2010
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.



- ISBN: 978-3-642-13802-7. Vol 6077. Pág. 93–100

TITLE: Self-adaptive Coordination for Organizations of Agents in Information Fusion Environments.

- AUTHOR(S): Rodríguez S., Pérez-Lancho B., Bajo J., Zato C., and Corchado J.M.
- BOOK: Proceedings of HAIS'10.
- DATE: 2010
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-642-13802-7. Vol 6077. Pág. 444–451

TITLE: Healthcare Information Fusion Using Context-Aware Agents.

- AUTHOR(S): Tapia D.I., Fraile J.A., de Luis A., and Bajo J.
- BOOK: Proceedings of HAIS'10.
- DATE: 2010
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-642-13802-7. Vol 6077. Pág. 96–103

TITLE: OVACARE: A Multi-Agent System for Assistance and Health Care.

- AUTHOR(S): De Paz J.F., Rodríguez S., Bajo J., Corchado J.M., Corchado E.
- BOOK: KES 2010, Part IV, LNAI 6279 proceedings
- DATE: June 2010
- PUBLISHER: Springer-Verlag KES 2010, Part IV, LNAI 6279, pp. 318–327, 2010.

TITLE: Ambient Intelligence Application Scenario for Collaborative e-Learning.

- AUTHOR(S): García O., Tapia D.I., Rodríguez S., and Corchado J.M.
- BOOK: Trends in Applied Intelligent Systems. IEA/AIE 2010.
- DATE: 2010
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-642-13021-2. Vol 6096. Pág. 407-416

TITLE: Temporal Bounded Planner Agent for Dynamic Industrial Environments.

- AUTHOR(S): De Paz J.F., Navarro M., Rodríguez S., Julián V., Bajo J. and Corchado J.M.
- BOOK: IEA/AIE 2010.
- DATE: 2010
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 6098. Pág. 556-565

TITLE: A Multi-agent Solution to Adaptively Classify SOAP Message and Protect against DoS Attack.

- AUTHOR(S): Pinzón C.I., De Paz J.F., Bajo J. and Corchado J.M.
- BOOK: Proceedings of XIII Conferencia de la Asociación Española para la Inteligencia Artificial
- DATE: In Press

- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.

5.4.3 Year 2009

TITLE: A Multi-agent System to Learn from Oceanic Satellite Image Data.

- AUTHOR(S): Cano R., González A., De Paz J.F and Rodríguez S.
- BOOK: Proceedings of IDEAL'09.
- DATE: September 2009
- PUBLISHER: H. Yin and E. Corchado (Eds.), Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5788. Pág. 727–734

TITLE: Improving the Language Active Learning with Multiagent Systems.

- AUTHOR(S): Pinzón C., López V., Bajo J., and Corchado J.M.
- BOOK: Proceedings of IDEAL'09.
- DATE: September 2009
- PUBLISHER: H. Yin and E. Corchado (Eds.), Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5788. Pág. 719–726

TITLE: Agents in Home Care: A Case Study.

- AUTHOR(S): Fraile J.A., Tapia D.I., Rodríguez S., and Corchado J.M.
- BOOK: Proceedings of HAIS'09.
- DATE: June 2009
- PUBLISHER: J. Cabestany et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5517. Pág. 1–8

TITLE: A Hybrid Solution for Advice in the Knowledge Management Field.

- AUTHOR(S): Herrero A., Mata A., Corchado E., and Sáiz L.
- BOOK: Proceedings of HAIS'09.
- DATE: June 2009
- PUBLISHER: E. Corchado et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5572. Pág. 157–168

TITLE: MACSDE: Multi-Agent Contingency Response System for Dynamic Environments

- AUTHOR(S): Mata A., Pérez B., González A., Baruque B. and Corchado E.
- BOOK: Proceedings of HAIS'09.
- DATE: June 2009
- PUBLISHER: E. Corchado et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5572. Pág. 50–59

TITLE: Wireless Sensor Networks in Home Care



- AUTHOR(S): Tapia D.I., Fraile J.A., Rodríguez S., De Paz J.F., and Bajo J.
- BOOK: Proceedings of IWANN'09.
- DATE: June 2009
- PUBLISHER: J. Cabestany et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5517. Pág. 1106–1112

TITLE: Stereo-MAS: Multi-Agent System for Image Stereo Processing

- AUTHOR(S): Rodríguez S., De Paz J.F., Bajo J., Tapia D.I., and Pérez B.
- BOOK: Proceedings of IWANN'09.
- DATE: June 2009
- PUBLISHER: J. Cabestany et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5517. Pág. 1256–1263

TITLE: THOMAS-MALL: A Multiagent System for Shopping and Guidance in Malls

- AUTHOR(S): Rodríguez S., Fernández A., Julián V., Corchado J.M., Ossowski S. and Botti V.
- BOOK: Proceedings of IWANN'09.
- DATE: June 2009
- PUBLISHER: J. Cabestany et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5517. Pág. 594–601

TITLE: Ensemble Methods for Boosting Visualization Models

- AUTHOR(S): Baroque B., Corchado E., Mata A., and Corchado J.M.
- BOOK: Proceedings of IWANN'09.
- DATE: June 2009
- PUBLISHER: J. Cabestany et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5517. Pág. 166–174

TITLE: DIAMI: Distributed Intelligent Environment for Blind Musicians

- AUTHOR(S): Díaz J.E., Márquez J.L., Sánchez M., Sánchez-Aguilera J.M., Sánchez M.A., and Bajo J.
- BOOK: Proceedings of IWANN'09.
- DATE: June 2009
- PUBLISHER: J. Cabestany et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5517. Pág. 474–481

TITLE: Multiagent-Based Educational Environment for Dependents

- AUTHOR(S): Macarro A., Pedrero A., and Fraile J.A.
- BOOK: Proceedings of IWANN'09.

- DATE: June 2009
- PUBLISHER: J. Cabestany et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5517. Pág. 602–609

TITLE: Thomas: Practical Applications of Agents and Multiagent Systems

- AUTHOR(S): Bajo J. and Corchado J.M.
- BOOK: Proceedings of IWANN'09.
- DATE: June 2009
- PUBLISHER: J. Cabestany et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5517. Pág. 512–513

TITLE: Self Organized Dynamic Tree Neural Network

- AUTHOR(S): De Paz J.F., Rodríguez S., Bajo J., Corchado J.M. and López V
- BOOK: Proceedings of IWANN'09.
- DATE: June 2009
- PUBLISHER: J. Cabestany et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5517. Pág. 221–228

TITLE: Introducing a Distributed Architecture for Heterogeneous Wireless Sensor Networks

- AUTHOR(S): Tapia D.I., Alonso R.S, De Paz J.F., Corchado J.M.
- BOOK: Proceedings of IWANN'09.
- DATE: June 2009
- PUBLISHER: S. Omatu et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5518. Pág. 1106–1112

TITLE: CBR System with Reinforce in the Revision Phase for the Classification of CLL Leukemia

- AUTHOR(S): De Paz J.F., Rodríguez S., Bajo J., Corchado J.M.
- BOOK: Proceedings of IWANN'09.
- DATE: June 2009
- PUBLISHER: S. Omatu et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5518. Pág. 963–970

TITLE: An Evolutionary Approach for Sample-Based Clustering on Microarray Data

- AUTHOR(S): Glez-Peña D., Díaz F., Méndez J.R., Corchado J.M. and Fdez-Riverola F.
- BOOK: Proceedings of IWANN'09.
- DATE: June 2009
- PUBLISHER: S. Omatu et al., Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.



- ISBN: 978-3-540-87655-7. Vol 5518. Pág. 971–977

5.4.4 Year 2008

TITLE: A WeVoS-CBR Approach to Oil Spill Problem

- AUTHOR(S): Corchado E., Baruque B, Mata A. and Corchado J.M.
- BOOK: Proceedings of HAIS 2008.
- DATE: September 2008
- PUBLISHER: E. Corchado, A. Abraham, and W. Pedrycz (Eds.), Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5271. Pág. 378-384

TITLE: Predicting de Presence of Oil Slicks After an Oil Spill

- AUTHOR(S): Corchado J.M and Mata A.
- BOOK: Advances in Case-Based Reasoning. ECCBR 2008.
- DATE: September 2008
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-85501-9. Pág. 573-586.

TITLE: Classification Agent-Based Techniques for Detecting Intrusions in Databases

- AUTHOR(S): Pinzón C, De Paz Y. and Cano R.
- BOOK: Proceedings of HAIS 2008.
- DATE: September 2008
- PUBLISHER: E. Corchado, A. Abraham, and W. Pedrycz (Eds.), Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5271. Pág. 46-53

TITLE: Using CBR Systems for Leukemia Classification

- AUTHOR(S): Corchado J.M. and De Paz J.F.
- BOOK: Proceedings of HAIS 2008.
- DATE: September 2008
- PUBLISHER: E. Corchado, A. Abraham, and W. Pedrycz (Eds.), Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5271. Pág. 688–695

TITLE: Multi-Agent System for Management and Monitoring of Routes Surveillance

- AUTHOR(S): Rodríguez S. and Bajo J.
- BOOK: Proceedings of HAIS 2008.
- DATE: September 2008
- PUBLISHER: E. Corchado, A. Abraham, and W. Pedrycz (Eds.), Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5271. Pág. 38-45

TITLE: Hybrid Multi-Agent Architecture (HoCa) applied to the control and supervision of patients in their home

- AUTHOR(S): Fraile J.A., Bajo J. and Corchado J.M.
- BOOK: IBERAMIA 2008.
- DATE: September 2008
- PUBLISHER: E. Corchado, A. Abraham, and W. Pedrycz (Eds.), Springer Verlag. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISBN: 978-3-540-87655-7. Vol 5271. Pág. 54-61

TITLE: AI for Modelling the Laser Milling of Copper Components

- AUTHOR(S): Andrés Bustillo, Javier Sedano, José Ramón Villar, Leticia Curiel, Emilio Corchado
- BOOK: IBERAMIA 2008.
- DATE: 2008
- PUBLISHER: Lecture Notes in Computer Science LNCS, Springer
- ISBN: 978-3-540-88905-2, Vol. 5328. Pág. 498-507
- DOI: 10.1007/978-3-540-88906-9-63

TITLE: Neural Projection Techniques for the Visual Inspection of Network Traffic

- AUTHOR(S): HERRERO COSIO, A.; Corchado Rodríguez, E.S.
- BOOK: Hybrid Artificial Intelligence Systems
- DATE: 10/2008
- PUBLISHER: Springer Verlag.
- Vol. 5271. Pág. 247-256

5.4.5 Year 2007

TITLE: Assessing Classification Accuracy in the Revision Stage of a CBR Spam Filtering System.

- AUTHOR(S): Méndez J. R., González C., Glez-Peña D., Fdez-Riverola F. y Corchado J.M.
- BOOK: ICCBR 2007.
- DATE: August 2007
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISSN 0302-9743. Pág. 374-388.

TITLE: Relaxing Feature Selection in Spam Filtering by using Case-Based Reasoning Systems

- AUTHOR(S): Méndez J.R., Fdez-Riverola F., Glez-Peña D., Díaz F., Corchado J.M.
- BOOK: EPIA 2007 13th Portuguese Conference on Artificial Intelligence.
- DATE: September 2007
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI 4874-0053), Springer Verlag.

TITLE: Hybrid Architecture for a Reasoning Planner Agent.

- AUTHOR(S): Bajo J., Tapia D.I., De Luis A., Rodríguez S., De Paz J.F. and Corchado J.M.
- BOOK: KES 2007.
- DATE: September 2007
- PUBLISHER: B. Apolloni et al. (Eds.), Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.



- ISSN 0302-9743., vol. 4693, pág. 461-468

TITLE: Hybrid Agents Based Architecture on Automated Dynamic Environments.

- AUTHOR(S): Tapia D.I., Bajo J., Rodríguez S.,Manzano J.M. and Corchado J.M.
- BOOK: KES 2007.
- DATE: September 2007
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag. ISSN 0302-9743.Vol:4693, pp: 453-460

TITLE: Intelligent Guidance and Suggestions using Case-Based Planning.

- AUTHOR(S): Bajo J.,Corchado J.M. y Rodríguez S.
- BOOK: ICCBR 2007.
- DATE: August 2007
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISSN 0302-9743. Pág. 389-403.

TITLE: Assessing Classification Accuracy in the Revision Stage of a CBR Spam Filtering System.

- AUTHOR(S): Méndez J. R., González C., Glez-Peña D., Fdez-Riverola F., Díaz F., Corchado J.M.
- BOOK: ICCBR 2007.
- DATE: August 2007
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISSN 0302-9743.

TITLE: Nature-Inspired Planner Agent for Health Care.

- AUTHOR(S): Bajo J., Tapia D. I., Rodríguez S., De Luis A. and Corchado J. M.
- BOOK: IWANN 2007.
- DATE: June 2007
- PUBLISHER: Lecture Notes in Computer Science (LNCS), Springer Verlag.
- ISSN 0302-9743. Pág. 1090-1097.

TITLE: Bio-inspired Memory Generation by Recurrent Neural Networks.

- AUTHOR(S): Bedia M.G., Corchado J. M. and Castillo L.F.
- BOOK: IWANN 2007.
- DATE: June 2007
- PUBLISHER: Lecture Notes in Computer Science (LNCS), Springer Verlag.
- ISSN 0302-9743. Pág. 55-62.

TITLE: Bio-inspired Memory Generation by Recurrent Neural Networks.

- AUTHOR(S): Bedia M.G., Corchado J. M. and Castillo L.F.
- BOOK: IWANN 2007.
- DATE: June 2007
- PUBLISHER: Lecture Notes in Computer Science (LNCS), Springer Verlag.

- ISSN 0302-9743. Pág. 55-62.

TITLE: Applying Gaia and AUML to the Construction of Deliberative Agents Using a Hybrid System.

- AUTHOR(S): Bajo J., De Paz Y., Martín Q. and Corchado J. M.
- BOOK: Hybrid Artificial Intelligence Systems. HAIS 2006
- DATE: February 2007
- PUBLISHER: Javier Bajo, Emilio S. Corchado, Álvaro Herrero and Juan M. Corchado (Eds.), University of Salamanca,
- ISBN: 84-934181-9-6.

TITLE: A Comparison of Neural Projection Techniques Applied to Intrusion Detection Systems

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; GASTALDO, P.; ZUNINO, RODOLFO
- BOOK: Computational and Ambient Intelligence
- DATE: 2007
- PUBLISHER: Springer, Alemania.
- Vol. 4507. Pág. 1138-1146

TITLE: IDS Based on Bio-Inspired Models

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; ZUNINO, RODOLFO; SAIZ DIEZ, JOSE MANUEL; PICASSO, FRANCESCO; GASTALDO, PAOLO
- BOOK: Knowledge-Based and Intelligent Information and Engineering Systems
- DATE: 2007

5.4.6 Year 2006

TITLE: Tracking Concept Drift at Feature Selection Stage in SpamHunting: An Anti-spam Instance-Based Reasoning System.

- AUTHOR(S): Mendez J. R., Iglesias E. L., FdezRiverola F., Díaz F. y Corchado J. M.
- BOOK: ECCBR 2006.
- DATE: August 2006
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISSN 0302-9743.

TITLE: Running Agents in Mobile Devices.

- AUTHOR(S): Bajo J., Corchado J. M. y L. Castillo
- BOOK: IBERAMIA 2006.
- DATE: October 2006
- PUBLISHER: Simao J., Coelho H. y Oliveira S. Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISSN 0302-9743 Pág. 58-69.



TITLE: A Comparative Performance Study of Feature Selection Methods for the Anti-Spam Filtering Domain.

- AUTHOR(S): Mendez J. R., Fdez Riverola F., Iglesias E. L., Díaz F. y Corchado J. M.
- BOOK: The 6th Industrial Conference On Data Mining.
- DATE: Julio 2006
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.

TITLE: Using Fuzzy Patterns for Gene Selection and Data Reduction on Microarray Data.

- AUTHOR(S): Díaz F., Fdez Riverola F., Glez-Peña Daniel y Juan M. Corchado
- BOOK: 7th International Conference on Intelligent Data Engineering and Automated Learning 2006.
- DATE: September 2006
- PUBLISHER: Corchado E., Yin H. Botti V. y Fyfe C. Lecture Notes in Artificial Intelligence (LNCS), Springer Verlag.
- ISSN 0302-9743. Pág. 1087-1094.

TITLE: Applying GCS Networks to Fuzzy Discretized Microarray Data for Tumour Diagnosis.

- AUTHOR(S): Díaz F., Fdez Riverola F., Glez-Peña Daniel y Juan M. Corchado
- BOOK: 7th International Conference on Intelligent Data Engineering and Automated Learning 2006.
- DATE: September 2006
- PUBLISHER: Corchado E., Yin H. Botti V. y Fyfe C. Lecture Notes in Artificial Intelligence (LNCS), Springer Verlag. ISSN 0302-9743. Pág. 1095-1102

TITLE: SMas: A Shopping Mall Multiagent System.

- AUTHOR(S): Bajo J., de Paz Y., de Paz J., Martin Q. y Corchado J. M.
- BOOK: 7th International Conference on Intelligent Data Engineering and Automated Learning 2006.
- DATE: September 2006
- PUBLISHER: Corchado E., Yin H. Botti V. y Fyfe C. Lecture Notes in Artificial Intelligence (LNCS), Springer Verlag. ISSN 0302-9743. Pág. 1166-1173.

TITLE: MOVICAB-IDS: Visual Analysis of Network Traffic Data Streams for Intrusion Detection

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; SAIZ DIEZ, JOSE MANUEL
- BOOK: Lecture Notes in Computer Science
- DATE: 2006, ALEMANIA
- Vol. 4224, Pág. 1424-1433

TITLE: Testing CAB-IDS through Mutations: on the Identification of Network Scans

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; HERRERO COSIO, ALVARO; SAIZ DIEZ, JOSE MANUEL

- BOOK: 10th International Conference on Knowledge-Based & Intelligent Information & Engineering Systems (KES2006)
- PUBLISHER: Springer, Lecture Notes in Computer Science
- DATE: 2006.

TITLE: Testing CAB-IDS through Mutations: on the Identification of Network Scans

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; HERRERO COSIO, ALVARO; SAIZ DIEZ, JOSE MANUEL
- BOOK: Lecture Notes in Computer Science
- DATE: 2006, ALEMANIA
- Vol. 4252, Pág. 433-441

TITLE: MOVICAB-IDS: Visual Analysis of Network Traffic Data Streams for Intrusion Detection

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; SAIZ DIEZ, JOSE MANUEL
- BOOK: 7th International Conference on Intelligent Data Engineering and Automated Learning (IDEAL2006)
- DATE: 2006.
- PUBLISHER: Springer, Lecture Notes in Computer Science
- Pág. 1424-1433

5.4.7 Year 2005

TITLE: Multiagent Architecture for Monitoring the North-Atlantic Carbon Dioxide Exchange Rate.

- AUTHOR(S): Bajo J. and Corchado J. M.
- BOOK: CAEPIA 2005.
- DATE: September 2006
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag.
- ISSN 0302-9743. Pág. 321-330.

TITLE: Tokenising, Stemming and Stopwords Removal on Anti-spam Filtering Domain.

- AUTHOR(S): Mendez J. R., Iglesias E. L., FdezRiverola F., Díaz F. y Corchado J. M.
- BOOK: CAEPIA 2005.
- DATE: August 2005
- PUBLISHER: Lecture Notes in Artificial Intelligence (LNAI), Springer Verlag. ISSN 0302-9743. Pág. 449-458.

TITLE: Autonomous Internal Control System for Small to Medium Firms.

- AUTHOR(S): Corchado J. M, Borrajo L. y Yañez J. C.
- BOOK: ICCBR 6th International Conference on Case-based Reasoning 2005.
- DATE: August 2005
- PUBLISHER: Ricci F. and Muñoz H. (Eds.) Lecture Notes in Artificial Intelligence (LNAI 3620), Springer Verlag. ISSN 0302-9743. Pag.106-122.



TITLE: Evaluation and monitoring of the air-sea interaction using a CBR-Agents approach.

- AUTHOR(S): Bajo J. y Corchado J. M.
- BOOK: ICCBR 6th Internacional Conference on Case-based Reasoning 2005.
- DATE: August 2005
- PUBLISHER: Ricci F. and Muñoz H. (Eds.) Lecture Notes in Artificial Intelligence (LNAI 3620), Springer Verlag. ISSN 0302-9743. Pag. 50-62.

TITLE: Improving Gene Selection in Microarray Data Analysis using Fuzzy Patterns inside a CBR System.

- AUTHOR(S): Fdez-Riverola F., Díaz F., Corchado J. M., Hernandez J. M. y San Miguel J.
- BOOK: ICCBR 6th Internacional Conference on Case-based Reasoning 2005.
- DATE: August 2005
- PUBLISHER: Ricci F. and Muñoz H. (Eds.) Lecture Notes in Artificial Intelligence (LNAI 3620), Springer Verlag. ISSN 0302-9743. Pag.191-205.

TITLE: A Comparative Impact Study of Corpus Preprocessing for the Construction of Anti-Spam Filtering Software Patterns inside a CBR System.

- AUTHOR(S): Mendez J. R., Iglesias E. L., Fdez-Riverola F., Diaz F., Corchado J. M.
- BOOK: XI Conferencia de la Asociación Española para la Inteligencia Artificial
- DATE: November 2005
- PUBLISHER: Roque Martín, Eva Onaindia, Alberto Bugarín, José Santos. ISSN 84-96474-13-5. Pag.29-38.

TITLE: An Unsupervised Cooperative Pattern Recognition Model to Identify Anomalous Massive SNMP Data Sending

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; SAIZ DIEZ, JOSE MANUEL; HERRERO COSIO, ALVARO
- BOOK: Advances in Natural Computation, Springer &- Lecture Notes in Computer Science.
- DATE: 2005

TITLE: Detecting Compounded Anomalous SNMP Situations Using Unsupervised Pattern Recognition

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; HERRERO COSIO, ALVARO; SAIZ DIEZ, JOSE MANUEL
- BOOK: Lecture Notes in Computer Science
- PUBLISHER: Lecture Notes in Computer Science
- DATE: 2005, ALEMANIA
- Vol. 3697, Pág. 905-910

TITLE: Identification of Anomalous SNMP Situations Using a Cooperative Connectionist Exploratory Projection Pursuit Model

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; SAIZ DIEZ, JOSE MANUEL
- BOOK: Lecture Notes in Computer Science
- PUBLISHER: Lecture Notes in Computer Science
- DATE: 2005, ALEMANIA
- Vol. 3578, Pág. 187-194

TITLE: Identification of Anomalous SNMP Situations Using a Cooperative Connectionist Exploratory Projection Pursuit Model.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; HERRERO COSIO, ALVARO; SAIZ DIEZ, JOSE MANUEL
- BOOK: Intelligent Data Engineering and Automated Learning, Springer &- Lecture Notes in Computer Science
- PUBLISHER: Lecture Notes in Computer Science (LNCS), Springer Verlag.
- DATE: 2005
- Pág. 187-194

5.4.8 Year 2004

TITLE: Applying Rough Sets Reduction Techniques to the Construction of a Fuzzy Rule Base for Case Based Reasoning.

- AUTHOR(S): Fdez-Riverola F. Díaz F. y Corchado J. M.
- BOOK: IBERAMIA 2004.
- DATE: November 2004
- PUBLISHER: Lemaitre C., Reyes C. A. y Gonzalez J. A. (Eds.) Lecture Notes in Artificial Intelligence (LNAI 3315), Springer Verlag.
- ISSN 0302-9743.
- ISBN 3-540-23806-9. pag. 83-92.

TITLE: Mobile Tourist Guide Services with Software Agents

- AUTHOR(S): Pavón J., Corchado J. M., Gomez J. J. y Castillo L. F.
- BOOK: Mobility Aware Technologies and Applications First International Workshop, MATA 2004.
- DATE: October 2004
- PUBLISHER: Karmouch A., Korba L. y Madeira E. (Eds.) Lecture Notes in Computer Science (LNCS 3284), Springer Verlag. Ed Luo Y.
- ISSN 0302-9743.
- ISBN 3-540-23423-3.

TITLE: Constructing a Global and Integral Model of Business Management Using a CBR System.

- AUTHOR(S): Corchado E., Corchado J. M., Saiz L and Lara A.
- BOOK: Proceedings of the International Conference on Cooperative Design, Visualization and Engineering - CDVE2004.
- DATE: September 2004



- PUBLISHER: Luo Y. (Ed.) Lecture Notes in Computer Science (LNCS 3190), Springer Verlag.
- ISSN 0302-9743. ISBN 3-540-23149-8 pag. 141-147.

TITLE: Design of Cooperative Agents for Mobile Devices.

- AUTHOR(S): Corchado J. M., Corchado E. y Pellicer M. A.
- BOOK: Proceedings of the International Conference on Cooperative Design, Visualization and Engineering - CDVE2004.
- DATE: September 2004
- PUBLISHER: Luo Y. (Ed.) Lecture Notes in Computer Science (LNCS 3190), Springer Verlag. ISSN 0302-9743.
- ISBN 3-540-23149-8 pag. 205-212.

TITLE: Quantifying the Ocean's CO2 Budget with a CoHeL-IBR System.

- AUTHOR(S): Corchado J. M., Aiken J., Corchado E. Lefevre N. y Smyth T.
- BOOK: 7th European Conference on Case-based Reasoning 2004.
- DATE: August-September 2004
- PUBLISHER: Funk P. y González Calero P. A. (Eds.) Lecture Notes in Computer Science, Lecture Notes in Artificial Intelligence (LNAI 3155), Springer Verlag.
- ISSN 0302-9743. ISBN 3-540-22882-9 pag. 533-546.

TITLE: Development of CBR-BDI Agents: A Tourist Guide Application

- AUTHOR(S): Corchado J. M., Pavón J., Corchado E. y Castillo L. F.
- BOOK: 7th European Conference on Case-based Reasoning 2004.
- DATE: August-September 2004
- PUBLISHER: Funk P. y González Calero P. A. (Eds.) Lecture Notes in Computer Science, Lecture Notes in Artificial Intelligence (LNAI 3155), Springer Verlag.
- ISSN 0302-9743. ISBN 3-540-22882-9 pag. 547-559.

TITLE: Kernel Maximum Likelihood Hebbian Learning.

- AUTHOR(S): Koetsier J., Corchado E., MacDonald D., Corchado J. M., Fyfe C.
- BOOK: International Conference on Computer Science. ICCS 2004.
- DATE: 6 – 9 June 2004
- PUBLISHER: Bubak M, Dick van Albada G. Sloom P. M. A. y Dongarra J. J. (Eds.) Lecture Notes in Computer Science (LNCS 3037), Springer Verlag.
- ISSN 0302-9743. ISBN 3-540-22115-8 pag. 650-653.

TITLE: A Kernel Method for Classification.

- AUTHOR(S): MacDonald D., Koetsier J., Corchado E. S., Fyfe C. y Corchado J. M.
- BOOK: Proceedings of the Third Mexican International Conference on Artificial Intelligence, Advances in Artificial Intelligence, MICAI
- DATE: 26-30 April 2004
- PUBLISHER: Monroy R., Arroyo G, Sucar L. E. y Sossa H. (Eds.) Lecture Notes i

- n Computer Science, Lecture Notes in Artificial Intelligence (LNAI 2972), Springer Verlag. ISSN 0302-9743.
- ISBN 3-540-21459-3 pag. 823-832.

TITLE: A Beta-Cooperative CBR System for Constructing a Business Mangement Model

- AUTHOR(S): CORCHADO, J.M.; Corchado Rodríguez, Emilio Santiago; LARA PALMA, ANA MARIA
- BOOK: 4th Industrial Conference on Data Mining ICDM04
- DATE: 2004, ALEMANIA
- PUBLISHER: Lecture Notes in Computer Science (LNCS), Springer Verlag Pág. 42-49

TITLE: A Hierarchical Visualization Tool to Analyse the Thermal Evolution of Construction Materials.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Burgos, P.; Rodríguez, M. M.; Tricio, V.
- BOOK: First International Conference on Cooperative Design, Visualization and Engineering CDVE2004, September 19-22, 2004, Palma de Mallorca.
- DATE: 2004
- PUBLISHER: Lectures Notes in Computer Science (LNCS), Springer Verlag.

TITLE: An IBR System To Quantify The Ocean's Carbon Dioxide Budget.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Corchado, J.; Aiken, J.
- BOOK: 4th Industrial Conference on Data Mining ICDM'2004; 02. 07. - 03. 07. 2004 Leipzig/Germany.
- DATE: 2004, ALEMANIA
- PUBLISHER: Lecture Notes in Computer Science (LNCS), Springer Verlag.

TITLE: An Unsupervised Neural Model to Analyse Thermal Properties of Construction Materials.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; P., Burgos; M., Rodríguez; V., Tricio
- BOOK: International Conference on Computer Science. ICCS 2004.
- DATE: 2004
- PUBLISHER: Lecture Notes in Computer Science (LNCS), Springer Verlag

TITLE: Analysing Spectroscopic Data Using Hierarchical Cooperative Maximum Likelihood Hebbian Learning.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; D., MacDonald; FYFE, COLYN
- BOOK: MICAI 2004: Advances in Artificial Intelligence, Third Mexican International Conference on Artificial Intelligence.
- DATE: 2004
- PUBLISHER: Lecture Notes in Computer Science (LNCS 2972). Springer-Verlag

TITLE: Development of a Global and Integral Model of Business Management Using an Unsupervised Model



- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; COLIN FYFE; LARA PALMA, ANA MARIA
- BOOK: 5th International Conference on Intelligent Data Engineering and Automated Learning. IDEAL04
- DATE: 2004
- PUBLISHER: Lecture Notes in Computer Science (LNCS), Springer Verlag Pág. 19-22
- Pág. 499-504

TITLE: Analysis of the Proceeding of Knowledge Management by an Unsupervised Model

- AUTHOR(S): SAIZ BARCENA, LOURDES CECILIA; LARA PALMA, ANA MARIA; Corchado Rodríguez, Emilio Santiago; MANZANEDO DEL CAMPO, MIGUEL ANGEL
- BOOK: Internacional Conference on Modelling & Simulation ICMS04. Decisión & Simulation in Engineering and Management Science.
- DATE: 2004
- PUBLISHER: Angel Gento y Alfonso Redondo
- Pág. 171-182

TITLE: A Connectionist Knowledge Management Model

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; SAIZ BARCENA, LOURDES CECILIA; LARA PALMA, ANA MARIA; FYFE, COLIN
- BOOK: 3rd International Workshop on Practical Applications of Agents and Multiagent Systems
- DATE: 2004

5.4.9 Year 2003

TITLE: Agent-based Web Engineering.

- AUTHOR(S): Corchado J. M., Laza R., Borrajo L., Yañez J. C., de Luis A. y Glez-Bedia M. (2003)
- BOOK: ICWE 2003, Third International Conference on Web Engineering.
- DATE: Julio, 2003.
- PUBLISHER: Cueva J. M., Gonzalez B., Joyanes L., Labra J. E. y del Puerto M. (Eds.) Lecture Notes in Computer Science (LNCS 2722), Springer-Verlag.
- ISSN 0302-9743.
- ISBN: 3-540-40522-4. pag. 17-25.

TITLE: Maximum Likelihood Hebbian Learning Based Retrieval Method for CBR Systems.

- AUTHOR(S): Corchado J.M., Corchado E.S., Aiken J., Fyfe C., Fdez-Riverola F. y Glez-Bedia M.
- BOOK: ICCBR 2003. The 5th International Conference on Case-Based Reasoning.
- DATE: June 23-26, 2003.
- PUBLISHER: Ashley K. D. y Bridge D. G. (Eds.) Lecture Notes in Computer Science, Lecture Notes in Artificial Intelligence (LNAI 2689), Springer-Verlag.
- ISSN 0302-9743.
- ISBN: 3-540-40433-3. pag. 107-121.

TITLE: A Reasoning Model for CBR_BDI Agents Using an Adaptable Fuzzy Inference System.

- AUTHOR(S): Laza R., Pavón R. y Corchado J. M.
- BOOK: 10th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2003, and 5th Conference on Technology Transfer, TTIA 2003
- DATE: 12-14 November, 2003.
- PUBLISHER: Conejo R., Urretavizcaya M., Pérez-de-la-Cruz J. L. (Eds.) Lecture Notes in Computer Science, Lecture Notes in Artificial Intelligence (LNAI 3040), Springer-Verlag.
- ISSN 0302-9743.
- ISBN: 3-540-22218-9. pag. 96-106.

TITLE: Employing TSK Fuzzy Models to Automate the Revision Stage of a CBR System.

- AUTHOR(S): Fdez-Riverola, F. y Corchado J. M.
- BOOK: 10th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2003, and 5th Conference on Technology Transfer, TTIA 2003
- DATE: 2003.
- PUBLISHER: Conejo R., Urretavizcaya M. y Pérez-de-la-Cruz J. L. (Eds.) Lecture Notes in Computer Science, Lecture Notes in Artificial Intelligence (LNAI 3040), Springer-Verlag.
- ISSN 0302-9743.
- ISBN: 3-540-22218-9. pag. 302-311.

TITLE: Progressive Concept Formation in Self-organising Maps.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; C., Fyfe
- BOOK: Computational Methods in Neural Modeling. 7th International Work-Conference on Artificial and Natural Neural Networks, IWANN 2003. Proceedings, Part 1.
- DATE: 2003.
- PUBLISHER: Lecture Notes in Computer Science (LNCS 2686), Springer-Verlag.
- Pag: 327-333

TITLE: Relevance and Kernel Self-organising Maps.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; C., Fyfe
- BOOK: ICANN/ICONIP 2003. 13TH International Conference on Artificial Neural Networks. 10th International Conference on Neural Information Processing. Istanbul, Turkey.
- DATE: 2003.
- PUBLISHER: Lecture Notes in Computer Science (LNCS 2714), Springer-Verlag
- Pag: 380-287

TITLE: Initialising Self-Organising Maps.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; C., Fyfe



- BOOK: Fourth International Conference on Intelligent Data Engineering and Automated Learning. IDEAL 2003.
- DATE: 21/03/2003.
- PUBLISHER: Lecture Notes in Computer Science. (LNCS 2690), Springer Verlag
- Pag: 161-168

TITLE: A New Neural Implementation of Exploratory Projection Pursuit.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; C., Fyfe
- BOOK: IDEAL2002 Third International Conference on Engineering and Automated Learning.
- DATE: Mayo 2003.
- PUBLISHER: Lecture Notes in Computer Science (LNCS 2412), Springer Verlag

5.4.10 Year 2002

TITLE: A Hybrid CBR Model for Forecasting in Complex Domains.

- AUTHOR(S): Fdez-Riverola F. y Corchado J. M.
- BOOK: Advances in Artificial Intelligence. 8th Ibero-American conference on AI.
- DATE: November 2002.
- PUBLISHER: Garijo F., Riquelme J. y Toro M. (Eds.) Lecture Notes in Computer Science, Lecture Notes in Artificial Intelligence (LNAI 2527), Springer Verlag.
- ISSN 0302-9743.
- ISBN: 3-540-00131-X. pag. 101-110.

TITLE: Neuro-symbolic System for Forecasting red Tides.

- AUTHOR(S): Fdez-Riverola F., Corchado J. M. y Torres J.
- BOOK: Artificial Intelligence and Cognitive Science. AICS'02, 13th Irish Conference on Artificial Intelligence and Cognitive Science.
- DATE: September 2002.
- PUBLISHER: O'Neill M. , Sutcliffe R.F.E. , Ryan C. , Eaton M. y Griffith N.J.L. (Eds.) Lecture Notes in Computer Science, Lecture Notes in Artificial Intelligence (LNAI 2464), Springer Verlag.
- ISSN 0302-9743. ISBN 3-540-44184-0. pag. 45-53.

TITLE: An Automated Hybrid CBR System for Forecasting.

- AUTHOR(S): Fdez-Riverola F, Corchado J. M. y Torres J.
- BOOK: Advances in Case-Based Reasoning. 6th European Conference an Case-based Reasoning.
- DATE: September 2002
- PUBLISHER: Crac S. y Preece A. (Eds.) Lecture Notes in Computer Science, Lecture Notes in Artificial Intelligence (LNAI 2416), Springer Verlag.
- ISSN 0302-9743. ISBN : 3-540-44109-3. pag. 519-533.

TITLE: Identification of Visual Features Using a Neural Version of Exploratory Projection Pursuit.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; C., Fyfe
- BOOK: Artificial Intelligence and Cognitive Science. AICS'02, 13th Irish Conference on Artificial Intelligence and Cognitive Science.
- DATE: 2002
- PUBLISHER: Lecture Notes in Computer Science, Lecture Notes in Artificial Intelligence (LNAI 2464), Springer Verlag

TITLE: Maximum and Minimum Likelihood Hebbian Learning for Exploratory Projection Pursuit.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; D., MacDonald; C., Fyfe; E., Merenyi
- BOOK: International Conference On Artificial Neural Networks, ICANN 2002. DATE: 2002
- PUBLISHER: Lecture Notes in Computer Science (LNCS 2415), Springer Verlag

5.4.11 Year 1999

TITLE: Integrated Case-based Neural Network Approach to Problem Solving.

- AUTHOR(S): Lees B. y Corchado J. M.
- BOOK: Knowledge-Based Systems - Survey and Future Directions.
- DATE: 2002
- PUBLISHER: Puppe F. (ed.) Lecture Notes in Computer Science, Lecture Notes in Artificial Intelligence (LNAI 1570) Springer Verlag
- ISSN 0302-9743. ISBN: 3-540-65658-8. pag. 157-166.

5.5 Symposiums

5.5.1 Year 2012

TITLE: A novel model of argumentation for Cloud Computing paradigm.

- AUTHOR(S): Dante I. Tapia, Ricardo S. Alonso, Óscar García, Gabriel Villarrubia, Fernando de La Prieta and Elena García
- BOOK: IBERAMIA 2012. ISCIF 2012. Cartagena de Indias (Colombia)
- DATE: November 2012

TITLE: Personalization of the workplace using the PANGEA multiagent platform.

- AUTHOR(S): Carolina Zato, Alejandro Sánchez, Gabriel Villarrubia, Sara Rodríguez, Javier Bajo, Juan Manuel Corchado, Amparo Casado and Amparo Jiménez
- BOOK: IBERAMIA 2012. ISCIF 2012. Cartagena de Indias (Colombia)
- DATE: November 2012

TITLE: Learning user's behaviour with an Adaptive Multi-Agent System approach.

- AUTHOR(S): Valérian Guivarch, Juan Francisco De Paz, Javier Bajo, André Péninou and Valérie Camps.
- BOOK: IBERAMIA 2012. ISCIF 2012. Cartagena de Indias (Colombia)
- DATE: November 2012



TITLE: The Role of Argumentation on the Future Internet: Reaching agreements on Human-Agent Societies.

- AUTHOR(S): Stella Heras, Fernando de La Prieta, Sara Rodriguez, Javier Bajo, Vicente Botti and Vicente Julian.
- PUBLISHER: Universidad (Eds.). IEEE Computer Society.
- BOOK: AT 2012. Dubrovnik (Croatia)
- DATE: September 2012

TITLE: Improving the tracing system in PANGEA using the TRAMMAS model.

- AUTHOR(S): Carolina Zato, Sara Rodriguez, Javier Bajo and Juan Manuel Corchado
- BOOK: IBERAMIA 2012. ISCIF 2012. Cartagena de Indias (Colombia)
- DATE: November 2012

TITLE: Sequencing Analysis using multiples sources.

- AUTHOR(S): Roberto González, Carolina Zato, Gabriel Villarrubia, Juan F. De Paz, Javier Bajo, Juan M. Corchado
- PUBLISHER: Universidad (Eds.). IEEE Computer Society.
- BOOK: FUSION 2012. Sesión Especial. Singapore (Singapore)
- DATE: July 2012

TITLE: Comparative genomics with Multi-agent Systems.

- AUTHOR(S): Juan F. De Paz, Carolina Zato, Fernando de la Prieta, Javier Bajo, Juan M. Corchado and Jesús M. Hernández.
- PUBLISHER: Abraham, Ajith; Thampi, Sabu M. (Eds.). Springer Verlag.
- ISBN: 978-3-642-32062-0, Advances in Intelligent and Soft Computing Series, Vol: 182, pp. 175-181. ISSN: 1867-5662
- BOOK: Intelligent Informatics.
- DATE: August 2012

TITLE: Integration of a proximity detection prototype into a VO developed with PANGEA.

- AUTHOR(S): Carolina Zato, Alejandro Sánchez, Gabriel Villarrubia, Javier Bajo, Sara Rodríguez
- PUBLISHER: Jorge Casillas, Francisco J. Martínez-López, Juan M. Corchado (Eds.). Springer Verlag.
- ISBN: 978-3-642-30863-5, Advances in Intelligent and Soft Computing Series, Vol: 171, pp. 197-206. ISSN: 1867-5662.
- BOOK: Management Intelligent Systems. First International Symposium
- DATE: April 2012

TITLE: Visualization of agents and its interaction within dynamic environments

- AUTHOR(S): Elena García, Virginia Gallego, Sara Rodríguez, Carolina Zato, Javier Bajo
- PUBLISHER: Jorge Casillas, Francisco J. Martínez-López, Juan M. Corchado (Eds.). Springer Verlag.

- ISBN: 978-3-642-30863-5, Advances in Intelligent and Soft Computing Series, Vol: 171, pp. 15-24. ISSN: 1867-5662.
- BOOK: Management Intelligent Systems. First International Symposium
- DATE: April 2012

TITLE: Personalization of the workplace through a proximity detection system using user's profiles

- AUTHOR(S): Carolina Zato, Alejandro Sánchez, Gabriel Villarrubia, Javier Bajo, Sara Rodríguez and Juan F. De Paz
- PUBLISHER: Lorna Uden, Francisco Herrera, Javier Bajo and Juan M. Corchado (Eds.). Springer Verlag
- ISBN: 978-3-642-30866-6, Advances in Intelligent and Soft Computing Series, Vol: 172, pp. 505-514. ISSN: 1867-5662.
- BOOK: 17th International Conference on Knowledge Management in Organizations. Service and Cloud Computing
- DATE: April 2012

TITLE: A New Platform for Developing, Management and Monitoring Open MultiAgent Systems

- AUTHOR(S): Javier Bajo, Juan M. Corchado, Carolina Zato
- PUBLISHER: Alessandro Ricci, Ana García-Fornes, Danny Weyns, Jose M. Such, Juan M. Alberola, Michal Pechoucek, Vicent Botti (Eds.).
- ISBN: 978-84-8363-850-7, pp: 27-36.
- BOOK: Workshop ITMAS 2012 - AAMAS 2012
- DATE: July 2012

TITLE: New Agent Platform with a Communication System based on the IRC Protocol.

- AUTHOR(S): Carolina Zato, Alejandro Sánchez, Gabriel Villarrubia, , Fernando de la Prieta, Sara Rodríguez, Javier Bajo, Juan M. Corchado
- PUBLISHER: Universidad (Eds.). IEEE Computer Society.
- BOOK: European Agent Systems Summer School (EASSS'12)
- DATE: May 2012

TITLE: PANGEA - Platform for Automatic coNstruction of orGanizations of intElligent Agents

- AUTHOR(S): Carolina Zato, Gabriel Villarrubia, Alejandro Sánchez, Ignasi Barri, Edgar Rubión, Alicia Fernández, Carlos Rebate, José A. Cabo, Tereza Álamos, Jesús Sanz, Joaquín Seco, Javier Bajo and Juan M. Corchado
- PUBLISHER: Sigeru Omatu, Juan F. De Paz, Sara Rodríguez, Jose M. Molina, Ana Bernardos and Juan M. Corchado (Eds.)
- ISBN: 978-3-642-28764-0, Advances in Intelligent and Soft Computing Series, Vol: 151, pp. 229-240. ISSN: 1867-5662.
- BOOK: Distributed Computing and Artificial Intelligence. 9th International Conference.



- DATE: March 2012

TITLE: M-Learning for Elderlies: A Case Study

- AUTHOR(S): Fernando de la Prieta, Antonia Macarro, Amparo Jiménez, Amparo Casado, Kasper Hallenborg, Juan F. De Paz, Sara Rodríguez and Javier Bajo
- PUBLISHER: Sigeru Omatu, Juan F. De Paz, Sara Rodríguez, Jose M. Molina, Ana Bernardos and Juan M. Corchado (Eds.)
- ISBN: 978-3-642-28764-0, Advances in Intelligent and Soft Computing Series, Vol: 151, pp. 637-646. ISSN: 1867-5662.
- BOOK: Distributed Computing and Artificial Intelligence. 9th International Conference.
- DATE: March 2012

TITLE: Evaluation of Labor Units of Competency: Facilitating Integration of Disabled People

- AUTHOR(S): Amparo Jiménez, Amparo Casado, Fernando de la Prieta, Sara Rodríguez, Juan F. De Paz and Javier Bajo
- PUBLISHER: Javier Bajo, Juan M. Corchado, Emmanuel Adam, Alfonso Ortega, María Moreno, Elena Navarro, Benjamin Hirsch, Henrique Lopes Cardoso, Vicente Julián, Miguel A. Sánchez and Philippe Mathieu (Eds.)
- ISBN: 978-3-642-28761-9, Advances in Intelligent and Soft Computing Series, Vol: 156, pp. 281-281. ISSN: 1867-5662.
- BOOK: Highlights in Practical Applications of Agents and Multi-Agent Systems. 10th International Conference on Practical Applications of Agents and Multi-Agent Systems
- DATE: March 2012

TITLE: Proximity detection prototype adapted to a work environment

- AUTHOR(S): Gabriel Villarrubia, Alejandro Sánchez, Ignasi Barri, Edgar Rubi3n, Alicia Fernández, Carlos Rebate, José A. Cabo, T3eresa lamos, Jes3s Sanz, Joaqu3n Seco, Carolina Zato, Javier Bajo, Sara Rodr3guez and Juan M. Corchado
- PUBLISHER: • Paulo Novais, Kasper Hallenborg, Dante I. Tapia and Juan M. Corchado (Eds.)
- ISBN: 978-3-642-28782-4, Advances in Intelligent and Soft Computing Series, Vol: 153, pp. 49-51. ISSN: 1867-5662.
- BOOK: Ambient Intelligence. 3rd International Symposium on Ambient Intelligence (ISAmI 2012)
- DATE: March 2012

TITLE: Menu navigation in mobile devices using the accelerometer

- AUTHOR(S): Alejandro Snchez, Gabriel Villarrubia, Amparo Jim3nez, Amparo Casado, Carolina Zato, Sara Rodr3guez, Ignasi Barri, Edgar Rubi3n, Eva Vzquez, Carlos Rebate, Jos3 A. Cabo, Joaqu3n Seco, Jes3s Sanz, Javier Bajo and Juan M. Corchado
- PUBLISHER: Pierpaolo Vittorini, Rosella Gennari, Ivana Marenzi, Fernando De la Prieta and Juan M. Corchado (Eds.)

- ISBN: 978-3-642-28800-5, Advances in Intelligent and Soft Computing Series, Vol: 152, pp. 133-140. ISSN: 1867-5662.
- Libro: International Workshop on evidenced-based Technolog
- BOOK: International Workshop on evidenced-based Technology Enhanced Learning
- DATE: March 2012

TITLE: CAFCLA: A Conceptual Framework to Develop Collaborative Context-aware Learning Activities

- AUTHOR(S): Óscar García, Ricardo S. Alonso, Dante I. Tapia, Juan M. Corchado
- PUBLISHER: Lorna Uden, Emilio Corchado, Juan F. De Paz, Fernando de la Prieta (Eds.). Springer
- BOOK: Workshop on Learning Technology for Education in Cloud
- DATE: July 2012

TITLE: Cloud-IO: Cloud Computing Platform for the Fast Deployment of Services over Wireless Sensor Networks

- AUTHOR(S): Dante I. Tapia, Ricardo S. Alonso, Óscar García, Juan M. Corchado
- PUBLISHER: Lorna Uden, Francisco Herrera, Javier Bajo y Juan M. Corchado (Eds.) Springer
- BOOK: 7th International Conference on Knowledge Management in Organizations. Service and Cloud Computing
- DATE: July 2012

TITLE: A Control Mechanism for a Hardware-Embedded Reactive Agents Platform

- AUTHOR(S): Juan F. de Paz, Ricardo S. Alonso, Dante I. Tapia, Juan M. Corchado
- PUBLISHER: Jorge Casillas, Francisco J. Martínez-López and Juan M. Corchado (Eds.)
- ISBN: 978-3-642-30863-5, Advances in Intelligent and Soft Computing Series, Vol: 171, pp. 15-24. ISSN: 1867-5662.
- BOOK: Management Intelligent Systems. First International Symposium
- DATE: April 2012

TITLE: Communication Protocol for the Guardian System aimed at the Protection of Mistreated People

- AUTHOR(S): Dante I. Tapia, Ricardo S. Alonso, Óscar García, Fabio Guevara, José A. Pardo, Antonio J. Sánchez, Juan M. Corchado
- BOOK: FUSION 2012

TITLE: n-Core® Polaris Real-Time Locating System

- AUTHOR(S): Óscar García, Fabio Guevara, Jorge Catalina, Dante I. Tapia, Ricardo S. Alonso & Juan M. Corchado
- BOOK: EvAAL

TITLE: Evaluating the n-Core Polaris Real-Time Locating System in an Indoor Environment



- AUTHOR(S): Dante I. Tapia, Óscar García, Ricardo S. Alonso, Fabio Guevara, Jorge Catalina, Raúl A. Bravo & Juan M. Corchado
- PUBLISHER: Juan M. Corchado Rodríguez, Javier Bajo Pérez, Paulina Golinska, Sylvain Giroux, Rafael Corchuelo. Springer-Berlin
- ISBN: 978-3-642-28794-7; DOI: 10.1007/978-3-642-28795-4
- BOOK: Trends in Practical Applications of Agents and Multiagent Systems. (PAAMS'12, AAAL). Advances in Intelligent and Soft Computing, 157
- DATE: March 2012

TITLE: A Maritime Piracy Scenario for the n-Core Polaris Real-Time Locating System

- AUTHOR(S): Óscar García, Ricardo S. Alonso, Dante I. Tapia & Fernando De la Prieta
- PUBLISHER:
- ISBN: 978-3-642-28764-0; Doi: 10.1007/978-3-642-28765-7_73
- BOOK: Distributed Computing and Artificial Intelligence (DCAI'12). Advances in Intelligent and Soft Computing, 151
- DATE: March 2012

TITLE: Guardian: Electronic System aimed at the Protection of Mistreated and At-risk People

- AUTHOR(S): Ricardo S. Alonso, Dante I. Tapia, Óscar García, Fabio Guevara, José A. Pardo, Antonio J. Sánchez & Juan M. Corchado
- PUBLISHER: Paulo Novais, Kasper Hallenborg, Dante I. Tapia, Juan M. Corchado Rodríguez
- ISBN: 978-3-642-28782-4; doi: 10.1007/978-3-642-28783-1
- BOOK: Ambient Intelligence - Software and Applications. 3rd International Symposium on Ambient Intelligence (ISAmI 2012). Advances in Intelligent and Soft Computing, 157
- DATE: March 2012

TITLE: Evaluating ZigBee Protocol to Design CAFLA: A Framework to Develop Location-Based Learning Activities

- AUTHOR(S): Óscar García, Ricardo S. Alonso, Dante I. Tapia & Juan M. Corchado
- PUBLISHER: Pierpaolo Vittorini, Rosella Gennari, Ivana Marenzi, Fernando de la Prieta, Juan M. Corchado Rodríguez. Springer
- ISBN: - DOI: 10.1007/978-3-642-28801-2_15
- BOOK: International Workshop on Evidence-Based Technology Enhanced Learning (EbTEL'12). Advances in Intelligent and Soft Computing, 157
- DATE: March 2012

TITLE: CAFCLA, a framework to ease design, develop and deploy Aml-based collaborative learning applications

- AUTHOR(S): Óscar García, Ricardo S. Alonso, Dante I. Tapia, Juan M. Corchado
- PUBLISHER: Asociación Ibérica de Sistemas y Tecnología de Información (AISTI). Álvaro Rocha, Jose A. Calvo-Manzano, Luís Paulo Reis, Manuel Pérez Cota (Eds.)

- ISBN: 978-989-96247-6-4
- BOOK: Sistemas y Tecnologías de Información. Actas de la 7ª Conferencia Ibérica de Sistemas y Tecnologías de Información
- DATE: June 2012

5.5.2 Year 2011

TITLE: **Applying HoCCAC to Plan Task the COPD Patient: A Case Study**

- AUTHOR(S): Juan A. Fraile, Sara Rodríguez, Juan F. de Paz and Belén Pérez-Lancho
- PUBLISHER: Novais, Paulo; Preuveneers, Davy; Corchado, Juan M. (Eds.) (Eds.) Advances in Intelligent and Soft Computing. Springer Verlag
- Lugar de Publicación: Salamanca (Spain)
- ISBN 978-3-642-19936-3, Volume 92/2011, 77-84, DOI: 10.1007/978-3-642-19937-0_10.
- BOOK: Ambient Intelligence - Software and Applications (ISAMI 2011).
- DATE: April 2011 - Salamanca (Spain)

TITLE: **BRENHET2, A MAS to Facilitate the Reutilization of LOs through Federated Search**

- AUTHOR(S): F. De la Prieta, A. Gil, S. Rodríguez and B. Martín
- PUBLISHER: Corchado, J.M.; Bajo Pérez, J.; Hallenborg, K.; Golinska, P.; Corchuelo, R. (Eds.). Advances in Intelligent and Soft Computing, Springer Verlag
- ISBN 978-3-642-19930-1 Volume 90/2011, 177-184, DOI: 10.1007/978-3-642-19931-8_22.
- BOOK: Trends In Practical Applications Of Agents And Multiagent Systems, 2011, (ZOCO 2011).
- DATE: April 2011 - Salamanca (Spain)

TITLE: **MISIA: Middleware Infrastructure to Simulate Intelligent Agents**

- AUTHOR(S): Elena García, Sara Rodríguez, Beatriz Martín and Carolina Zato
- PUBLISHER: Abraham, A.; Corchado, J.M.; Rodríguez González, S.; de Paz Santana, J.F. (Eds.) Springer Verlag
- ISBN 978-3-642-19933-2. Advances in Soft Computing Series. Vol. 91. Pág. 107-117.
- BOOK: International Symposium on Distributed Computing and Artificial Intelligence (DCAI 2011).
- DATE: April 2011 - Salamanca (Spain)

TITLE: **A System for Multi-label Classification of Learning Objects**

- AUTHOR(S): Vivian F. López Batista, Fernando Prieta Pintado, Ana Belén Gil, Sara Rodríguez and María N. Moreno
- PUBLISHER: Corchado, E.; Snasel, V.; Sedano, J.; Hassanien, A.E.; Calvo, J.L.; Slezak, D. (Eds.) Advances in Intelligent and Soft Computing. Springer Verlag
- ISBN 978-3-642-19643-0 Volume 87/2011, 523-531, DOI: 10.1007/978-3-642-19644-7_55.



- BOOK: Soft Computing Models In Industrial And Environmental Applications, 6th International Conference (SOCO 2011)
- DATE: April 2011 - Salamanca (Spain)

TITLE: Image Processing to Detect and Classify Situations and States of Elderly People

- AUTHOR(S): Reig-Bolaño R., Marti-Puig P., Bajo J., Rodríguez S., De Paz J.F., and Rubio M.P.
- PUBLISHER: Corchado, E.; Snasel, V.; Sedano, J.; Hassanien, A.E.; Calvo, J.L.; Slezak, D. (Eds.) Advances in Intelligent and Soft Computing. Springer Verlag
- ISBN 978-3-642-19643-0 Volume 87/2011, 163-172, DOI: 10.1007/978-3-642-19644-7_55.
- BOOK: Soft Computing Models In Industrial And Environmental Applications, 6th International Conference (SOCO 2011)
- DATE: April 2011 - Salamanca (Spain)

TITLE: Automatic Learning Object Extraction and Classification in Heterogeneous Environments

- AUTHOR(S): A. B. Gil, F. De la Prieta and S. Rodríguez
- PUBLISHER: Bajo Pérez, J.; Corchado, J.M.; Moreno, M.N.; Julián, V.; Mathieu, P.; Canada-Bago, J.; Ortega, A.; Fernández Caballero, A. (Eds.) Advances in Intelligent and Soft Computing. Springer Verlag
- ISBN 978-3-642-19916-5 , Volume 89/2011, 109-116, DOI: 10.1007/978-3-642-19917-2_14
- BOOK: Highlights In Practical Applications Of Agents And Multiagent Systems (PAAMS 2011).
- BOOK: Highlights In Practical Applications Of Agents And Multiagent Systems (PAAMS 2011)
- DATE: April 2011 - Salamanca (Spain)

TITLE: Virtual Organizations in Information Fusion

- AUTHOR(S): Rodríguez S., Tapia D., De Paz J.F. and De la Prieta F
- PUBLISHER: Bajo Pérez, J.; Corchado, J.M.; Moreno, M.N.; Julián, V.; Mathieu, P.; Canada-Bago, J.; Ortega, A.; Fernández Caballero, A. (Eds.) Advances in Intelligent and Soft Computing. Springer Verlag.
- ISBN 978-3-642-19916-5 , Volume 89/2011, 195-202, DOI: 10.1007/978-3-642-19917-2_14
- BOOK: Highlights In Practical Applications Of Agents And Multiagent Systems (PAAMS 2011).
- DATE: April 2011 - Salamanca (Spain)

TITLE: Multiagent Systems and self-organizative virtual organizations, a step ahead in adaptive MAS

- AUTHOR(S): Sara Rodríguez, Fernando de la Prieta, Elena García, Carolina Zato, Javier Bajo, Juan M. Corchado

- CONGRESO: 1th International Conference on Intelligent Systems Design and Applications (ISDA 2011). In press

TITLE: AIREH: Búsqueda y Recuperación de Objetos de Aprendizaje Mediante una Arquitectura de Sistema Multiagente

- AUTHOR(S): Ana Gil, Sara Rodríguez, Fernando de la Prieta, Beatriz Martín
- PUBLISHER: José Luis Sierra y Antonio Sarasa (Eds.)BOOK: Actas del 2º Taller sobre Ingeniería del Software en eLearning.
- pp.207-220, 2011, ISBN: 978-84-694-7325-2
- CONGRESO: 2º Taller sobre Ingeniería del Software en eLearning (ISELEAR'11)

TITLE: Interaction Mechanism for Language Learning for Elderly People through Mobile Devices

- AUTHOR(S): Antonia Macarro, Emma Villafaina, Ana María Pinto, Javier Bajo
- DATE: April 2011
- PUBLISHER: Javier Bajo, Juan M. Corchado, María Moreno, Vicente Julián, Philippe Mathieu, Joaquin Canada-Bago, Alfonso Ortega, Antonio Fernández (Eds.). Springer Verlag
- BOOK: Highlights in Practical Applications of Agents and Multiagent Systems. 9th International Conference on Practical Applications of Agents and Multiagent Systems.
- ISBN: 978-3-642-19936-3. Advances in Intelligent and Soft Computing Series, Vol: 92, pp. 93-99.

TITLE: Multi-agent system for detecting elderly people falls through mobile devices

- AUTHOR(S): Oscar García, Ricardo S. Alonso, Fabio Guevara, David Sancho, Miguel Sánchez, Javier Bajo
- DATE: April 2011
- PUBLISHER: Novais, Paulo; Preuveneers, Davy; Corchado, Juan M. (Eds.)
- BOOK: Ambient Intelligence - Software and Applications. 2nd International Symposium on Ambient Intelligence (ISAmI 2011)
- ISBN: 978-3-642-19936-3. Advances in Intelligent and Soft Computing Series, Vol: 92, pp. 93-99.

TITLE: ARTIZT: Applying Ambient Intelligence to a Museum Guide Scenario

- AUTHOR(S): Oscar García, Ricardo S. Alonso, Fabio Guevara, David Sancho, Miguel Sánchez, Javier Bajo
- DATE: April 2011
- PUBLISHER: Novais, Paulo; Preuveneers, Davy; Corchado, Juan M. (Eds.)
- BOOK: Ambient Intelligence - Software and Applications. 2nd International Symposium on Ambient Intelligence (ISAmI 2011) Vol: 92, pp. 173-180.
- ISBN: 978-3-642-19936-3. Advances in Intelligent and Soft Computing Series

TITLE: A new adaptive algorithm for detecting falls from mobile devices



- AUTHOR(S): Miguel Sánchez, Patricia Martín, Laura Álvarez, Vidal Alonso, Alberto Pedrero, Carolina Zato and Javier Bajo
- DATE: April 2011
- PUBLISHER: Juan M. Corchado, Javier Bajo, Kasper Hallenborg, Paulina Golinska and Rafael Corchuelo (Eds.). Springer Verlag
- BOOK: Trends in Practical Applications of Agents and Multiagent Systems. 9th International Conference on Practical Applications of Agents and Multiagent Systems
- ISBN: 978-3-642-19930-1. Advances in Intelligent and Soft Computing Series, Vol 90, pp. 17-24. ISSN: 1867-5662.

TITLE: SIDCA: Sistema multiagente de detección de caídas vía móvil en ancianos y personas de movilidad reducida

- AUTHOR(S): Laura Álvarez, Patricia Martín, Miguel Sánchez, Vidal Alonso, Amparo Jiménez, Amparo Casado, Javier Bajo
- DATE: June 2011
- PUBLISHER: Fundación ONCE
- BOOK: Proceedings of DTR4ALL 2011
- ISBN: 978-84-88934-50-5, Vol: , pp: 508-513

TITLE: Knowledge management in small and medium business

- AUTHOR(S): María L. Borrajo, Javier Bajo, Juan F. De Paz, Fernando de la Prieta and Juan M. Corchado
- BOOK: KMO 2011
- DATE: 2011
- PUBLISHER: Tokio Institute of Tehcnology

TITLE: Analysis of aCGH Integrating Different Sources of Information by Means of a CBR

- AUTHOR(S): Carolina Zato, Juan F. De Paz, Javier Bajo and Juan M. Corchado
- BOOK: KMO 2011
- DATE: 2011
- PUBLISHER: Tokio Institute of Tehcnology

TITLE: Labour Integration of Disabled People through Lighthweighth Devices

- AUTHOR(S): Antonia Macarro, Javier Bajo, Amparo Jiménez, Fernando de la Prieta and Juan M. Corchado
- BOOK: KMO 2011
- DATE: 2011
- PUBLISHER: Tokio Institute of Tehcnology

5.5.3 Year 2010

TITLE: Mitigation of the Ground Reflection Effect in Real-Time Locating Systems

- AUTHOR(S): Dante I. Tapia, Juan F. De Paz, Cristian I. Pinzón, Javier Bajo

- BOOK: International Symposium on Distributed Computing and Artificial Intelligence. DCAI 2011
- DATE: 2010
- PUBLISHER: Abraham, A.; Corchado, J.M.; Rodríguez González, S.; de Paz Santana, J.F. (Eds.). Springer Verlag
- ISBN: 978-3-642-19933-2. Advances in Intelligent and Soft Computing Series, Vol: 91, pp. 311-138.

TITLE: A multiagent system for Web-based risk management in small and medium business

- AUTHOR(S): Javier Bajo, Juan F. De Paz, María L. Borrajo, and Juan M. Corchado
- BOOK: Highlights in Practical Applications of Agents and Multiagent Systems. 9th International Conference on Practical Applications of Agents and Multiagent Systems.
- DATE: April 2010
- PUBLISHER: Javier Bajo, Juan M. Corchado, María Moreno, Vicente Julián, Philippe Mathieu, Joaquin Canada-Bago, Alfonso Ortega, Antonio Fernández (Eds.). Springer Verlag
- ISBN: 978-3-642-19916-5. Advances in Intelligent and Soft Computing Series, Vol 89, pp. 9-18.

TITLE: A new adaptive algorithm for detecting falls from mobile devices

- AUTHOR(S): Miguel Sánchez, Patricia Martín, Laura Álvarez, Vidal Alonso, Alberto Pedrero, Carolina Zato and Javier Bajo
- BOOK: Trends in Practical Applications of Agents and Multiagent Systems. 9th International Conference on Practical Applications of Agents and Multiagent Systems.
- DATE: April 2010
- PUBLISHER: Juan M. Corchado, Javier Bajo, Kasper Hallenborg, Paulina Golinska and Rafael Corchuelo (Eds.). Springer Verlag
- ISBN: 978-3-642-19930-1. Advances in Intelligent and Soft Computing Series, Vol 90, pp. 17-24. ISSN: 1867-5662.

TITLE: ARTIZT: Applying Ambient Intelligence to a Museum Guide Scenario

- AUTHOR(S): Oscar García, Ricardo S. Alonso, Fabio Guevara, David Sancho, Miguel Sánchez, Javier Bajo
- BOOK: Ambient Intelligence - Software and Applications. 2nd International Symposium on Ambient Intelligence (ISAmI 2011).
- DATE: April 2010
- PUBLISHER: Novais, Paulo; Preuveneers, Davy; Corchado, Juan M. (Eds.). Springer Verlag
- ISBN: 978-3-642-19936-3. Advances in Intelligent and Soft Computing Series, Vol: 92, pp. 173-180.

TITLE: Multi-agent system for detecting elderly people falls through mobile devices

- AUTHOR(S): Patricia Martín, Miguel Sánchez, Laura Álvarez, Vidal Alonso and Javier Bajo



- BOOK: Ambient Intelligence - Software and Applications. 2nd International Symposium on Ambient Intelligence (ISAmI 2011).
- DATE: April 2010
- PUBLISHER: Novais, Paulo; Preuveneers, Davy; Corchado, Juan M. (Eds.)
- Ambient Intelligence - Software and Applications. 2nd International Symposium on Ambient Intelligence (ISAmI 2011)

TITLE: Interaction Mechanism for Language Learning for Elderly People through Mobile Devices

- AUTHOR(S): Antonia Macarro, Emma Villafaina, Ana María Pinto, and Javier Bajo
- BOOK: Highlights in Practical Applications of Agents and Multiagent Systems. 9th International Conference on Practical Applications of Agents and Multiagent Systems
- DATE: April 2010
- PUBLISHER: Javier Bajo, Juan M. Corchado, María Moreno, Vicente Julián, Philippe Mathieu, Joaquin Canada-Bago, Alfonso Ortega, Antonio Fernández (Eds.). Springer Verlag
- ISBN: 978-3-642-19916-5. Advances in Intelligent and Soft Computing Series, Vol 89, pp. 335-342

TITLE: Image Processing to Detect and Classify Situations and States of Elderly People

- AUTHOR(S): Corchado, E.; Snasel, V.; Sedano, J.; Hassanien, A.E.; Calvo, J.L.; Slezak, D. (Eds.)
- BOOK: Soft Computing Models in Industrial and Environmental Applications, 6th International Conference SOCO 2011
- DATE: April 2010
- PUBLISHER: Javier Bajo, Juan M. Corchado, María Moreno, Vicente Julián, Philippe Mathieu, Joaquin Canada-Bago, Alfonso Ortega, Antonio Fernández (Eds.). Springer Verlag
- ISBN: 978-3-642-19643-0. Advances in Intelligent and Soft Computing Series, Vol: 87, pp. 163-172

TITLE: A Distributed Hierarchical Multi-agent Architecture for Detecting Injection in SQL Queries

- AUTHOR(S): Pinzón C., De Paz J.F., Herrero A., Corchado E.
- BOOK: 10th International Conference on Hybrid Intelligent Systems 2010
- DATE: 2010
- PUBLISHER: IEEE. ISBN: 978-1-4244-7365-6. Pág. 73-78.

TITLE: Sistema multiagente orientado a la búsqueda, recuperación y filtrado de objetos digitales educativos

- AUTHOR(S): De la Prieta Pintado F., Gil A.B., Corchado J.M., Sanz E.
- BOOK: CEDI 2010
- DATE: Julio 2010

- PUBLISHER: VIII Jornadas de Aplicaciones y Transferencia Tecnológica de la Inteligencia Artificial, TTIA2010. ISBN: 978-84-92812-57-8. Pág. 65-74.

TITLE: Market Stock Decisions Base don Morphological Filtering

- AUTHOR(S): Marti-Puig P., R. Reig-Bolaño, Bajo J., Rodriguez S.
- BOOK: DCAI 2010
- DATE: Julio 2010
- PUBLISHER: Springer Velag. ISBN: 978-3-642-14882-8. Advances in Soft Computing Series. Vol. 79. Pág. 435-440.

TITLE: Trends on the Development of Adaptive Virtual Organization

- AUTHOR(S): Rodríguez S., Julián V., Sánchez A.L., Carrascosa C., López V.F., Corchado J.M., Corchado E.
- BOOK: DCAI 2010
- DATE: Julio 2010
- PUBLISHER: Springer Velag. ISBN: 978-3-642-14882-8. Advances in Soft Computing Series. Vol. 79. Pág. 81-88.

TITLE: A Support Vector regression Approach to Predict Carbon Dioxide Exchange

- AUTHOR(S): De Paz J.F., Pérez B., González A., Corchado E., Corchado J.M.
- BOOK: DCAI 2010
- DATE: Julio 2010
- PUBLISHER: Springer Velag. ISBN: 978-3-642-14882-8. Advances in Soft Computing Series. Vol. 79. Pág. 157-164.

TITLE: Cloud Computing in Bioinformatics

- AUTHOR(S): Bajo J., Zato C., De la Prieta F., de Luis S., Tapia D.
- BOOK: DCAI 2010
- DATE: Julio 2010
- PUBLISHER: Springer Velag. ISBN: 978-3-642-14882-8. Advances in Soft Computing Series. Vol. 79. Pág. 147-156.

TITLE: Statistical Machine Translation Using the Self-Organizing

- AUTHOR(S): López V., Corchado J.M., De Paz J.F., Rodríguez S., Bajo J.
- BOOK: DCAI 2010
- DATE: Julio 2010
- PUBLISHER: Springer Velag. ISBN: 978-3-642-14882-8. Advances in Soft Computing Series. Vol. 79. Pág. 131-138.

TITLE: Otoliths Identifiers Using Image Contours EFD

- AUTHOR(S): Reig-Bolaño R., Marti-Puig P., Rodriguez S., Bajo J., Parisi-Baradad V., and Lombarte A.
- BOOK: DCAI 2010
- DATE: Julio 2010



- PUBLISHER: Springer Velag. ISBN: 978-3-642-14882-8. Advances in Soft Computing Series. Vol. 79. Pág. 9–16.

TITLE: Wireless Sensor Networks for Data Acquisition and Information Fusion: A Case Study

- AUTHOR(S): Tapia D.I., Rodríguez S., Bajo J., Corchado J.M., García O.
- BOOK: FUSION 2010
- DATE: Julio 2010
- PUBLISHER: ISBN: 978-0-9824438-1-1.

TITLE: Intelligent Context-based information fusion system in Health Care: Helping people live healthier

- AUTHOR(S): Zato C., Lopez V., De Paz J.F., Bajo J., Rodríguez S., Corchado J.M.
- BOOK: FUSION 2010
- DATE: Julio 2010
- PUBLISHER: ISBN: 978-0-9824438-1-1.

TITLE: Embedding Reactive Hardware Agents into Heterogeneous Sensor Networks

- AUTHOR(S): Tapia D.I., Alonso R.S., Rodríguez S., De Paz J.F., González A. and Corchado J.M.
- BOOK: FUSION 2010
- DATE: Julio 2010
- PUBLISHER: ISBN: 978-0-9824438-1-1.

TITLE: Temporal Bounded Reasoning for Context-based Information Fusion in DoS attack Detection

- AUTHOR(S): Pinzon C., Navarro M., De Paz J.F., Zato C., Bajo J., Julián V.
- BOOK: FUSION 2010
- DATE: Julio 2010
- PUBLISHER: ISBN: 978-0-9824438-1-1.

TITLE: OVACARE: A Multi-Agent System for Assistance and Health Care

- AUTHOR(S): De Paz J.F., Rodríguez S., Bajo J., Corchado J.M., Corchado E.
- BOOK: Balanced Automation Systems for Future Manufacturing Networks 9th IFIP WG 5.5 International Conference, BASYS 2010, Valencia, Spain, July 21-23, 2010. Proceedings
- DATE: Julio 2010
- PUBLISHER: Springer-Verlag. ISBN: 978-3-642-14341-0. Vol. 322. Pág. 251-259.

TITLE: Automatic workflow during the reuse phase of a CBP system applied to microarray analysis

- AUTHOR(S): De Paz J.F., Gil A.B., Corchado E.S.
- BOOK: Advances in Bioinformatics. IWPACBB 2010
- DATE: June 2010

- PUBLISHER: Springer Velag. ISBN: 978-3-642-13213-1 . Advances in Soft Computing Series. Vol. 74. Pág. 17-24.

TITLE: Multiagent Systems and Wearable Devices: Helping People Live Healthier

- AUTHOR(S): Fraile J.A., Zato C., Gil O. and De la Prieta D.
- BOOK: Ambient Intelligence and Future Trends-International Symposium on Ambient Intelligence (ISAmI 2010)
- DATE: June 2010
- PUBLISHER: Springer Velag. ISBN: 978-3-642-13268-1. Advances in Soft Computing Series. Vol. 72. Pág. 11-18.

TITLE: Hybrid Dynamic Planning Mechanism for Virtual Organizations

- AUTHOR(S): Rodríguez S., López V.F. and Bajo J.
- BOOK: Soft Computing Models in Industrial and Environmental Applications, 5th International Workshop (SOCO 2010)
- DATE: June 2010
- PUBLISHER: Springer Velag. ISBN: 978-3-642-13160-8. Advances in Soft Computing Series. Vol. 73. Pág. 19-26.

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- AUTHOR(S): Pinzón C., González A., Rubio M. and Bajo J.
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- AUTHOR(S): García Ó, Zato C., Tapia D.I., de Luis A.
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- DATE: June 2010
- PUBLISHER: APPIA (Portuguese Association for Artificial Intelligence). ISBN: 978-989-95618-3-0. Pág. 47-54.

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- AUTHOR(S): Rodríguez S., Gil O., de la Prieta F., Zato C., Corchado J.M., Vega P., Francisco M.
- BOOK: 14th International Conference on Intelligent Engineering Systems (INES), 2010
- DATE: Mayo 2010
- PUBLISHER: IEEE Xplore Digital Library. ISBN: 978-1-4244-7650-3 Digital Object Identifier: 10.1109/INES.2010.5483855 . Pgs. 159 - 164

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- AUTHOR(S): Mata A., Belén Pérez B. y Corchado J.M.
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- DATE: April 2010
- PUBLISHER: Springer Velag. ISBN: 978-3-642-12383-2. Advances in Soft Computing Series. Vol. 70. Pág. 135-144.

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- AUTHOR(S): Ricardo S. Alonso, Oscar García, Carolina Zato, Oscar Gil, Fernando De la Prieta
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TITLE: Agents to help Context-aware system in Home Care

- AUTHOR(S): Juan A. Fraile, Dante I. Tapia, Jesús A. Román, Oscar García
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TITLE: Enhancing the Services Integration Mechanism in the HoCa Multi-Agent Architecture

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- AUTHOR(S): Rosa Cano, Manuel P. Rubio and Ana de Luis
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- AUTHOR(S): Sara Rodríguez, Juan F. De Paz, Pablo Sánchez and Juan M. Corchado
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- AUTHOR(S): Fernando de la Prieta, Oscar Gil, Carolina Zato, Beatriz Martín and Alberto García
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- PUBLISHER: Pawlewski, P.; Julián, V.J.; Fernández-Riverola, F.; Corchado, E.; Corchuelo, R.; Bajo, J.; Corchado, J.M.; Dignum, F.; Demazeau, Y.; Campbell, A. (Eds.).

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- AUTHOR(S): Cristian Pinzón, Martí Navarro, Javier Bajo
- BOOK: Trends and strategies on agents and multiagent systems: 8th International conference on Practical Applications of agents and multiagent systems, ISSN 1615-3871 (Print) 1860-0794 (Online).
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- AUTHOR(S): Fernando de la Prieta and Ana B. Gil
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- AUTHOR(S): Martí Navarro, Sara Rodríguez, Vicente Julián and Vivian F. López
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- BOOK: CAEPIA
- DATE: November 2009

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- AUTHOR(S): Fraile J.A., Bajo J. and Corchado J.M.
- BOOK: Actas de los Talleres de las Jornadas de Ingeniería del Software y Bases de Datos. SISTEDES 2009, ZOCO 2009.
- DATE: Julio 2009
- PUBLISHER: José L. Álvarez, José L. Arjona, Rafael Corchuelo, David Ruiz (Eds.)

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- PUBLISHER: ISBN: 978-84-692-4211-7. Antonio Vallecillo and Goiuria Sagardui (Eds.)

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- AUTHOR(S): De Paz J.F., Rodríguez S., Bajo J., Corchado J.M.
- BOOK: 9th Computational and Mathematical Methods in Science and Engineering

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- PUBLISHER: J. Vigo Aguilar, P. Alonso, S. Oharu, E. Venturino and B. Wade. Vol.4 Pág. 1235-1246

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- AUTHOR(S): De Paz J.F., Rodríguez S., Bajo J., Corchado J.M.
- BOOK: 9th Computational and Mathematical Methods in Science and Engineering
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- AUTHOR(S): Rodríguez S., Pérez-Lancho B., De Paz J.F., Bajo J. and Corchado J.M.
- BOOK: 12th International Conference on Information Fusion, Seattle, USA.
- DATE: Julio 2009

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- AUTHOR(S): Mata A., Tapia D.I., González A., and Pérez B.
- BOOK: 7th International Conference on PAAMS'09.
- DATE: March 2009
- PUBLISHER: Springer Velag. ISBN: 978-3-642-00486-5 In Press. Advances in Soft Computing Series. Vol. 55. Pág. 274–283.

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- AUTHOR(S): Pinzón C., De Paz Y., Cano R., and Rubio M.P.
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- DATE: March 2009
- PUBLISHER: Springer Velag. ISBN: 978-3-642-00486-5 In Press. Advances in Soft Computing Series. Vol. 55. Pág. 246–255.

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- AUTHOR(S): De Paz J.F., Rodríguez S., and Bajo J.
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- DATE: March 2009
- PUBLISHER: Springer Velag. ISBN: 978-3-642-00486-5 In Press. Advances in Soft Computing Series. Vol. 55. Pág. 217–226.

TITLE: Developing Home Care Intelligent Environments: From Theory to Practice

- AUTHOR(S): Tapia D.I., Bajo J., and Corchado J.M.
- BOOK: 7th International Conference on PAAMS'09.
- DATE: March 2009
- PUBLISHER: Springer Velag. ISBN: 978-3-642-00486-5 In Press. Advances in Soft Computing Series. Vol. 55. Pág. 20–29.



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- AUTHOR(S): Fraile J.A., Beato M.E., and Pérez B.
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- AUTHOR(S): Glez-Peña D., Díaz F., Fdez-Riverolav F., Méndez J.R., Corchado J.M.
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5.5.5 Year 2008

TITLE: A Case-Based Reasoning System to Forecast the Presence of Oil Slicks.

- AUTHOR(S): Corchado J.M., Mata A., De Paz J.F. and Del Pozo D.
- BOOK: IADIS European Conference on Data Mining 2008 (part of MCCSIS 2008).
- DATE: 2008
- PUBLISHER: ISBN (Book) 978-972-8924-63-8 , ISBN (CD-ROM) 978-972-8924-67-6

TITLE: AMADE: Developing a Multi-Agent Architecture for Home Care Environments.

- AUTHOR(S): Fraile J.A., Bajo J. and Corchado J.M.
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- DATE: October 2008
- PUBLISHER: ISBN: 978-3-540-88308-1. Pág. 193-202

TITLE: Developing a Multi-Agent Architecture for Home Care Environments.

- AUTHOR(S): Fraile J.A., Bajo J. and Corchado J.M.
- BOOK: Proceedings of the workshop IBERAGENTS 2008. IBERAMIA 2008.
- DATE: October 2008
- PUBLISHER: ISBN 97288 6211-3. Pág. 43-54

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- AUTHOR(S): Tapia D.I., Fraile J.A., Bajo J. and Corchado J.M.
- BOOK: Proceedings of the workshop WAT 2008. IBERAMIA 2008
- DATE: October 2008
- PUBLISHER: ISBN: 972886210-5 Pág. 43-54

TITLE: Using a Distributed Multi-Agent Architecture for Optimizing the Performance of a Case-Based Planning Mechanism

- AUTHOR(S): Rodríguez S., De Paz J.F., Tapia D.I. and Corchado J.M.

- BOOK: 3rd European Workshop on Case-Based Reasoning and Context-Awareness (CaCoA). ECCBR 2008.
- DATE: September 2008
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- AUTHOR(S): De Paz J.F., Rodríguez S., Bajo J. and Corchado J.M.
- BOOK: Proceedings of the workshop CBR in the Health Sciences. ECCBR 2008.
- DATE: September 2008
- PUBLISHER: Martin Schaaf (ed.). ISBN: 978-3-88120-903-8 ECCBR Workshops, Pág. 69-78

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- AUTHOR(S): Tapia D.I. , De Paz J.F., Rodríguez S., Bajo J. and Corchado J.M.
- BOOK: Proceedings of ZOCO 2008.
- DATE: September 2008
- PUBLISHER: Pág. 77-85.

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- AUTHOR(S): De Paz J.F., Rodríguez S., Bajo J., Corchado J.M.
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- DATE: September 2008
- PUBLISHER: IEEE Computer Society Press. ISBN: 978-0-7695-3326-1, 807-812 pp.

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- AUTHOR(S): Mata A.
- BOOK: Proceedings of DCAI 2008.
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- PUBLISHER: Springer Velag. ISBN: 978-3-540-85862-1 In Press. Advances in Soft Computing Series. Vol. 50. Pág. 582-586

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- AUTHOR(S): Cano R., Sánchez J.G. and Pinzón C.
- BOOK: Proceedings of DCAI 2008.
- DATE: October 2008
- PUBLISHER: Springer Velag. ISBN: 978-3-540-85862-1 In Press. Advances in Soft Computing Series. Vol. 50. Pág. 171-179.

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- AUTHOR(S): Mata A., Corchado E. and Baroque B.
- BOOK: Proceedings of DCAI 2008.



- DATE: October 2008
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- AUTHOR(S): Fraile J.A., Bajo J., Pérez B. and Sanz E.
- BOOK: Proceedings of DCAI 2008.
- DATE: October 2008
- PUBLISHER: Springer Velag. ISBN: 978-3-540-85862-1 In Press. Advances in Soft Computing Series. Vol. 50. Pág. 52-61.

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- AUTHOR(S): Pinzón C., De Paz Y. and Bajo J.
- BOOK: Proceedings of DCAI 2008.
- DATE: October 2008
- PUBLISHER: Springer Velag. ISBN: 978-3-540-85862-1 In Press. Advances in Soft Computing Series. Vol. 50. Pág. 180-188.

TITLE: FUSION@, A SOA-Based Multi-Agent Architecture

- AUTHOR(S): Tapia D.I., Rodríguez S., Bajo J., Corchado J.M.
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- DATE: October 2008
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- AUTHOR(S): Rodríguez S., De Paz J.F., Bajo J. and Corchado J.M.
- BOOK: Proceedings of IWPACBB 2008.
- DATE: October 2008
- PUBLISHER: Springer Velag. ISBN: ISBN 978-3-540-85860-7. Advances in Soft Computing Series, Vol. 49. Pág. 102-111.

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- AUTHOR(S): Rodríguez S., De Paz J.F., Bajo J., Corchado J.M.
- BOOK: Proceedings of ESTYLF 2008. Sesión especial en Soft Computing and Bioinformatics.
- DATE: September 2008
- PUBLISHER: European Centre for Soft Computing. ISBN: 978-84-691-5807-4, Pág. 579-584.

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- AUTHOR(S): Bajo J., Corchado J.M. and Rodríguez S.

- BOOK: Proceedings of the 18th European Conference on Artificial Intelligence (ECAI 2008). Series in Frontiers in Artificial Intelligence and Applications.
- DATE: July 2008
- PUBLISHER: M. Ghallab, C.D. Spyropoulos, N. Fakotakis and N. Avouris, eds. IOS Press. ISBN: 978-1-58603-891-5, Pág. 875-876.

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- AUTHOR(S): Corchado J.M, Mata A., De Paz J.F. and Del Pozo D.
- BOOK: Proceedings of the 18th European Conference on Artificial Intelligence (ECAI 2008). Prestigious Applications of Intelligent Systems (PAIS)
- DATE: July 2008
- PUBLISHER: M. Ghallab, C.D. Spyropoulos, N. Fakotakis and N. Avouris, eds. IOS Press. IOS Press ISBN: 978-1-5-58603-891-5. Vol. 178. Pág. 643-647.

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- AUTHOR(S): De Paz J.F., Rodríguez S., Corchado J.M. and Bajo J.
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- DATE: June 2008.
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- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago
- BOOK: Proceedings of the International Workshop on Computational Intelligence in Security for Information Systems CISIS'08
- PUBLISHER: Springer
- Vol. 53. Pág. 155-162

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- AUTHOR(S): JIMENEZ PALMERO, ALFREDO; HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago
- BOOK: Intelligent Data Engineering and Automated Learning - IDEAL 2008
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- Vol. 5326. Pág. 508-515

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- AUTHOR(S): HERRERO COSIO, A.; Corchado Rodríguez, E.S.
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5.5.6 Year 2007

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- AUTHOR(S): Cano R. and Corchado J.M.
- BOOK: Avances en Informática y Automática: Primer Workshop. Master Oficial en Sistemas Inteligentes.
- DATE: December de 2007.
- PUBLISHER: B. Curto, V. Moreno, M. N. Moreno y J. M. Corchado. University of Salamanca. ISBN: 978-84-612-1283-5. Pág. 1-10.

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- AUTHOR(S): Cristian I. and Corchado J.M.
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- AUTHOR(S): Corchado J.M., Tapia D.I., Bajo J., De Paz J.F., Rodríguez S., Sánchez J.M.
- BOOK: Proceedings of Primeras Jornadas Científicas sobre RFID.
- DATE: November 2007.
- PUBLISHER: J. Bravo (Ed.)- Universidad de Castilla la Mancha. Pág. 461-468

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- AUTHOR(S): Tapia D.I., Cueli J.R., García O., Corchado J.M., Bajo J. and Saavedra A.
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- AUTHOR(S): Tapia D.I., De Paz J.F., Rodríguez S., Alegrete E., and De Luis A.
- BOOK: 6th International Workshop on Practical Applications of Agents and Multiagent Systems.
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- AUTHOR(S): Fernández F., Rodillo D., del Pino F., Bajo J., Corchado J.M.
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- AUTHOR(S): García I., Pastor A., Bajo J., Alonso V. and Corchado J.M.
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- AUTHOR(S): Tapia D.I., Bajo J., Corchado J.M., González A. and Sánchez J.M.
- BOOK: II Workshop on Industrial Applications of Distributed Intelligent Systems (INADIS 2007).
- DATE: November 2007.
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- DATE: November 2007.
- PUBLISHER: A. Giret, V. Julian and V. Botti (Eds.)- University of Salamanca. Pág. 13-22.

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- PUBLISHER: Juan R. Rabuñal, Julian Dorado & Alejandro Pazos (Eds.)- Idea Group Reference.

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- AUTHOR(S): De Paz J.F., Sánchez J.M., Rodríguez S., González A. and Corchado J.M.
- BOOK: CAEPIA 2007.
- DATE: November 2007.
- PUBLISHER: Daniel Borrajo, Luis Castillo y Juan Manuel Corchado (Eds.)- University of Salamanca. Pág. 181-190.



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- DATE: November 2007.
- PUBLISHER: Daniel Borrajo, Luis Castillo y Juan Manuel Corchado (Eds.)- University of Salamanca. Vol. 2. ISBN: 978-84-611-8848-2. ISBN: 978-84-611-8846-8 Pág 151-180.

TITLE: Arquitectura Multiagente para Entornos Dinámicos: Tecnología e Inteligencia Aplicadas.

- AUTHOR(S): Tapia D. I., Bajo J., Corchado J.M., Rodríguez S., De Paz J.F, Sánchez J.M. and Saavedra A.
- BOOK: CEDI'07 - UCAMI'07.
- DATE: September 2007.
- PUBLISHER: Thompson-Paraninfo

TITLE: Intrusion Detection at Packet Level by Unsupervised Architectures

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; GASTALDO, PAOLO; ZUNINO, RODOLFO; PICASSO, FRANCESCO; LEONCINI, DAVIDE
- BOOK: Intelligent Data Engineering and Automated Learning - IDEAL'07
- DATE: 2007.

TITLE: Combining Improved FYDPS Neural Networks and Case-Based Planning: A Case Study.

- AUTHOR(S): De Paz Y., Martin Q., Bajo J. and Tapia D. I.
- BOOK: Innovation in Hybrid Intelligent Systems.
- DATE: November 2007
- PUBLISHER: Advances in Soft Computing Series, Springer Verlag.
- ISSN:1615-3871. .
- ISBN: 978-3-540-74971-4, Vol: 44, pp: 296-303

TITLE: Context Aware Hybrid Agents on Automated Dynamic Environments.

- AUTHOR(S): De Paz J.F., Rodríguez S., Sánchez J.M., De Luis A. y Corchado J.M.
- BOOK: Innovation in Hybrid Intelligent Systems.
- DATE: November 2007
- PUBLISHER: Advances in Soft Computing Series, Springer Verlag.
- ISSN:1615-3871.
- ISBN: 978-3-540-74971-4, Vol: 44, pp: 25-32

TITLE: Autonomous FYDPS Neural Network-based Planner Agent for Health Care in Geriatric Residences.

- AUTHOR(S): De Paz J.F., De Paz Y., Bajo J., Rodríguez S. and Corchado J.M.
- BOOK: Innovation in Hybrid Intelligent Systems.
- DATE: November 2007
- PUBLISHER: Advances in Soft Computing Series, Springer Verlag.
- ISSN:1615-3871.
- ISBN: 978-3-540-74971-4, Vol: 44, pp: 377-384

TITLE: Hybrid Multi-Agent System for Intelligent Health Care.

- AUTHOR(S): Tapia D. I. , Bajo J., De Paz J.F. and Corchado J.M.
- BOOK: Hybrid Artificial Intelligence Systems. HAIS 2006
- DATE: February 2007
- PUBLISHER: Javier Bajo, Emilio S. Corchado, Álvaro Herrero and Juan M. Corchado (Eds.), University of Salamanca,
- ISBN: 84-934181-9-6.

TITLE: Hybrid Multi Agent-Neural Network Intrusion Detection with Mobile Visualization

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; PELLICER FIGUERAS, MARIA ASSUMPCIÓ; ABRAHAM, AJITH
- BOOK: Innovations in Hybrid Intelligent Systems
- DATE: 2007

5.5.7 Year 2006

TITLE: Ambient Intelligence Agent for Health Care.

- AUTOR O COAUTHOR(S): Bajo J., De Luis A., González A., Tapia D.I., Saavedra A. and Corchado J.M.
- BOOK: WUCAMI 2006.
- DATE: November 2006.
- PUBLISHER: José Bravo (Ed.), Universidad de Castilla la Mancha.
- ISBN: 84-6901744-6. Pág 115-125

TITLE: A Shopping Mall Multiagent System: Ambient Intelligence in Practice.

- AUTOR O COAUTHOR(S): Bajo J., González A., De Luis A., Saavedra A. and Corchado J.M.



- BOOK: WUCAMI 2006.
- DATE: November 2006.
- PUBLISHER: José Bravo (Ed.), Universidad de Castilla la Mancha.
- ISBN: 84-6901744-6. Pág. 179-188.

TITLE: Constructing Deliberative Agents Using a Hybrid System.

- AUTOR O COAUTHOR(S): Bajo J., De Paz Y., Martín Q., Corchado J.M.
- BOOK: HAIS 2006.
- DATE: October 2006.
- PUBLISHER: Solange Oliveira Rezende, Antonio Carlos Roque da Silva Filho Eds..
- ISBN: 85-87837-11-7.

TITLE: Hybrid Multi-Agent System for Alzheimer Health Care.

- AUTOR O COAUTHOR(S): Tapia D.I., Bajo J., De Paz J.F., Corchado J.M.
- BOOK: HAIS 2006.
- DATE: October 2006.
- PUBLISHER: Solange Oliveira Rezende, Antonio Carlos Roque da Silva Filho Eds..
- ISBN: 85-87837-11-7.

TITLE: Deliberative Agents for Distributed Monitoring and Evaluation of the Air-Sea Interaction.

- AUTOR O COAUTHOR(S): Bajo J., De Paz J.F., Tapia D.I. and Corchado J.M.
- BOOK: INADIS 2006.
- DATE: October 2006.
- PUBLISHER: Solange Oliveira Rezende, Antonio Carlos Roque da Silva Filho Eds..
- ISBN: 85-87837-11-7.

TITLE: Dynamical systems for dealing with classification tasks in industrial environments.

- AUTHOR(S): Bedia M.G. and Corchado J.M.
- BOOK: INADIS 2006.
- DATE: October 2006.
- PUBLISHER: Solange Oliveira Rezende, Antonio Carlos Roque da Silva Filho Eds..
- ISBN: 85-87837-11-7.

TITLE: GERMAS: Multi-Agent System for the Care and Control of Patients in Geriatric Residences.

- AUTHOR(S): Tapia D.I., Corchado J.M. and Bajo J.
- BOOK: IWPAAMS 2006.
- DATE: October 2006.
- PUBLISHER: Universidad de Valladolid. ISBN: 84-934181-7-X. Pág. 63-74.

TITLE: Wireless Multi-Agent Systems based on CBR-BDI Agents: from Theory to Practice.

- AUTHOR(S): Bajo J., De Luis A., Tapia D.I., Corchado J.M.
- BOOK: IWPAAMS 2006.

- DATE: October 2006.
- PUBLISHER: Universidad de Valladolid.
- ISBN: 84-934181-7-X. Pág. 85-96.

TITLE: ALZ-MAS: Alzheimer's special care multi-agent system.

- AUTHOR(S): Corchado J.M., Bajo J., Tapia D.I.
- BOOK: Proceedings of the workshop on Agents Applied in Health Care (ECAI 2006).
- DATE: August 2006.
- PUBLISHER: A. Moreno, U. Cortes, R. Annicchiarico and J. Nealon Eds. Pág. 1-9

TITLE: A multiagent recommending system for shopping centres.

- AUTHOR(S): Corchado J.M., Bajo J., De Paz Y., De Paz J.F., Martín Q.
- BOOK: Proceedings of the workshop on Recommender Systems (ECAI 2006).
- DATE: August 2006.
- PUBLISHER: Alexander Felfernig, Markus Zanker Eds. Pág 92-96.

TITLE: A Multiagent System for Intrusión Detection: MOVICAB-IDS

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago
- BOOK: 5th International Workshop on Practical Applications of Agents and Multi-Agent Systems IWPAAMS 2006
- DATE: 2006.

TITLE: Maximum Likelihood Topology Preserving Ensembles

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; GABRYS, BOGDAN
- BOOK: 7th Intelligent Data Engineering and Automated Learning IDEAL 2006
- DATE: 2006.
- Pág. 1434-1442

TITLE: Outlier overcoming using re-sampling techniques

- AUTHOR(S): GABRYS, BOGDAN; Corchado Rodríguez, Emilio Santiago; HERRERO COSIO, ALVARO; ROVIRA CARBALLIDO, JORDI
- BOOK: 5th International Workshop on Practical Applications of Agents and Multi-Agent Systems IWPAAMS 2006
- DATE: 2006.

TITLE: Outlier Resistant PCA ensambles

- AUTHOR(S): GABRYS, BOGDAN; Corchado Rodríguez, Emilio Santiago
- BOOK: 10th International Conference on Knowledge-Based & Intelligent Information & Engineering Systems KES (3)
- DATE: 2006.
- Pág. 432-3440

TITLE: The Importance of Time in the Identification of Anomalous Situations by Means of MOVICAB-IDS



- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago
- BOOK: Nature-Inspired Smart Information Systems NiSIS 2006 &- 2nd Annual Symposium
- DATE: 2006.

TITLE: A MultiAgent System to Automate Drilling Tasks

- AUTHOR(S): CURIEL HERRERA, LETICIA ELENA; Corchado Rodríguez, Emilio Santiago; BRAVO DIEZ, PEDRO MIGUEL
- BOOK: V International Workshop on Practical Applications of Agents and Multiagent Systems. IWPAAMS'200
- PUBLISHER: Universidad de Valladolid
- DATE: 20/10/2006

TITLE: Computational-Intelligence Models for Visualization-based Intrusion Detection Systems

- AUTHOR(S): GASTALDO, P.; PICASSO, F.; ZUNINO, RODOLFO; Corchado Rodríguez, Emilio Santiago; HERRERO COSIO, ALVARO
- BOOK: Hybrid Artificial Intelligence Systems
- DATE: November 2006
- PUBLISHER: University of Salamanca. Servicio de imprenta
- Pág. 81-88

5.5.8 Year 2005

TITLE: Sistema Multiagente CBR-BDI para el estudio de la interacción mar-aire.

- AUTHOR(S): Bajo J. y Corchado J.M.
- BOOK: CEDI 2005.
- DATE: September 2005.
- PUBLISHER: Thompson-Paraninfo.
- ISBN: 84-9732-454-4. Pág. 11-17.

TITLE: Librería para el intercambio de Mensajes FIP-ACL entre dispositivos móviles a través de Bluetooth.

- AUTHOR(S): Castillo L.F., Bedia M.G. y Corchado J.M.
- BOOK: CEDI 2005.
- DATE: September 2005.
- PUBLISHER: Thompson-Paraninfo.
- ISBN: 84-9732-454-4. Pág. 95-101.

TITLE: Construyendo sistemas basados en agentes: de la teoría a la práctica.

- AUTHOR(S): Bajo J. y Corchado J.M.
- BOOK: IWPAAMS 2005.
- DATE: October 2005.
- PUBLISHER: Universidad de León.
- ISBN: 84-9773-222-7. Pág. 5-14.

TITLE: Monitorización y evaluación del intercambio de CO2 entre mar y aire mediante un SMA con agentes CBR-BDI. [Original]

- AUTHOR(S): Bajo J. y Corchado J.M.
- BOOK: CAEPIA 2005.
- DATE: November 2005.
- PUBLISHER: Martin R., Onaindia E., Bugariz A. y Santos J. Universidad de Santiago de Compostela.
- ISBN: 84-96474-13-5.

TITLE: A cooperative connectionist IDS model to identify independent anomalous SNMP situations

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; HERRERO COSIO, ALVARO; Sáiz, José Manuel.
- BOOK: ACTAS DEL III TALLER DE MINERÍA DE DATOS Y APRENDIZAJE (TAMIDA'2005); I CONGRESO ESPAÑOL DE INFORMÁTICA (CEDI'2005)
- DATE: September 2005.
- PUBLISHER: Editorial Thomson

TITLE: An Application of an Unsupervised Projection Cooperative Model to the Detection of the Best Drilling Conditions

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Curiel, L.; Bravo, P.
- BOOK: I SIMPOSIO DE INTELIGENCIA COMPUTACIONAL; I CONGRESO ESPAÑOL DE INFORMÁTICA (CEDI'2005).
- DATE: September 2005.
- PUBLISHER: Editorial Thomson

TITLE: A Proposal: Distributed Agent-Based IDS to Detect Anomalous SNMP Situations Using Unsupervised Learning

- AUTHOR(S): HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; CURIEL HERRERA, LETICIA ELENA; SAIZ DIEZ, JOSE MANUEL
- BOOK: IV International Workshop on Practical Applications of Agents and Multiagent Systems. IWPAAMS'2005.
- DATE: 20/10/2005
- PUBLISHER: Universidad de León

TITLE: Collaborative Agents for Drilling Optimisation Tasks Using an Unsupervised Connectionist Model

- AUTHOR(S): CURIEL HERRERA, LETICIA ELENA; HERRERO COSIO, ALVARO; Corchado Rodríguez, Emilio Santiago; BRAVO DIEZ, PEDRO MIGUEL
- BOOK: IV International Workshop on Practical Applications of Agents and Multiagent Systems. IWPAAMS'2005.
- DATE: 20/10/2005
- PUBLISHER: Universidad de León



TITLE: Intrusion Detection System Based on a Cooperative Topology Preserving Method

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; HERRERO COSIO, ALVARO; SAIZ DIEZ, JOSE MANUEL
- BOOK: 7th International Conference on Adaptive and Natural Computing Algorithms (ICCANGA 2005)
- PUBLISHER: Springer Computer Science

TITLE: A Cooperative Unsupervised Connectionist Model To Identify The Optimal Conditions Of A Pneumatic Drill.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Curiel, L.; Bravo, P.
- BOOK: WSTST'05, The Fourth IEEE international workshop on Soft Computing as Transdisciplinary Science and Technology
- PUBLISHER: Springer Verlag
- DATE: 05/2005, JAPÓN

5.5.9 Year 2004

TITLE: Constructing a Global and Integral Model of Business Management Using a CBR System.

- AUTHOR(S): Corchado E., Corchado J. M., Saiz L and Lara A.
- BOOK: Proceedings of the International Conference on Cooperative Design, Visualization and Engineering - CDVE2004. Pág. 19-22
- PUBLISHER: First Internacional Conference on Cooperative Design, Visualization and Engineering CDVE
-

TITLE: Analysis of the Proceedings of Knowledge Management by an Unsupervised Model.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Sáiz, L.; Lara, A.; Manzanedo, M.A
- BOOK: International Conference On Modelling & Simulation (ICMS'04). Decision & Simulation in Engineering and Management Science.
- DATE: 09/2004, Valladolid
- PUBLISHER: Edt. Angel M. Gento y Alfonso Redondo

5.5.10 Year 2003

TITLE: Maximum Likelihood Kernel Scale Invariant Maps.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Fyfe, C.; MacDonald, D.
- BOOK: Intelligent Systems and Innovational Computing &- Workshop on Self-organization Maps-WSOM'03.
- DATE: September 2003, JAPÓN
- PUBLISHER: IEEE Neural Networks Society. International Neural Network Society (INNS).

TITLE: Kernel Self-Organizing Map for Information Retrieval.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; MacDonald, D.; Fyfe, C.

- BOOK: II International Workshop on Practical Applications of Agents and Multiagent Systems (IWPAAMS'2003).
- DATE: October 2003
- PUBLISHER: Carlos Alonso (Eds.). Universidad de Valladolid
- Pag. 133-143

TITLE: Maximum-Likelihood Competitive Learning for the Analysis of Spectroscopic Data.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; MacDonald, D.; Fyfe, C.; Colina, A.; López-Gejo, J.; López-Palacios, J.; Bravo, P.
- BOOK: II International Workshop on Practical Applications of Agents and Multiagent Systems (IWPAAMS'2003).
- DATE: October 2003
- PUBLISHER: Carlos Alonso (Eds.). Universidad de Valladolid

5.5.11 Year 2002

TITLE: Globally Organising Maximum Likelihood Hebbian Learning Using the Rectified Gaussian Distribution.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Fyfe, C.
- BOOK: Perception, Volume 31, Supplement. 25th European Conference on Visual Perception. ECVP 2002.
- DATE: August 2002.
- PUBLISHER: Perception, Volume 31, Supplement.

TITLE: Classification and ICA using Maximum Likelihood Hebbian Learning

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Koetsier, J.; Macdonald, D.; Fyfe, C.
- BOOK: Neural Networks For Signal Processing. Proceedings of the 2002 IEEE International Workshop.
- DATE: September 2002.
- PUBLISHER: IEEE. IEEE Catalog Number: 02TH8641

TITLE: Maximum Likelihood Topology Preserving Algorithms.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Fyfe, C
- BOOK: The 2002 U.K. Workshop on Computational Intelligence. (UKCI'02).
- DATE: September 2002.
- PUBLISHER: Edited by John A. Bullinaria. The University of Birmingham

TITLE: Suppression of Related Independent Causes Using an Unsupervised Artificial Neural Network.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Fyfe, C.
- BOOK: ASAI2002 4th Argentine Symposium on Artificial Intelligence.
- DATE: September 2002.
- PUBLISHER: Edited by Dr. Santos J.M., Dr. Zapico A.; Anales JAIIO, ARGENTINA

TITLE: The Scale Invariant Map And Maximum Likelihood Hebbian Learning



- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Fyfe, C.
- BOOK: Knowledge-Based Intelligent Information Engineering Systems and Allied Technologies. Frontiers in Artificial Intelligence and Applications. Vol 82. KES2002. IOS Press..
- DATE: September 2002.
- PUBLISHER: IOS-Press.

TITLE: Aprendizaje no Supervisado Aplicado a la Identificación de Idiomas en discurso. (Unsupervised Learning Applied to the Identification of Languages).

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; MARTICORENA SANCHEZ, RAUL; MAUDES RAEDO, JESUS MANUEL; GARCIA OSORIO, CESAR IGNACIO; Fyfe, C.
- BOOK: IWPAAMS'2002. Proceedings of the Internet, e-com and Artificial Intelligence. I International Workshop on Practical Applications of Agents and Multiagent Systems.
- DATE: October 2002.
- PUBLISHER: University of Salamanca.

TITLE: Three Neural Exploratory Projections Pursuit Algorithms as Agent Information Providers.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; GARCIA OSORIO, CESAR IGNACIO; Fyfe, C.
- BOOK: IWPAAMS'2002. Internet, e-com and Artificial Intelligence. I International Workshop on Practical Applications of Agents and Multiagent Systems
- DATE: 04/2002
- PUBLISHER: University of Salamanca

TITLE: Understanding Humans: A Comparative Study of Four Methods of Interpreting Human

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; MAUDES RAEDO, JESUS MANUEL; Fyfe, C.
- BOOK: Internet, e-com and Artificial Intelligence. I International Workshop on Practical Applications of Agents and Multiagent Systems.
- DATE: 10/2002
- PUBLISHER: University of Salamanca
- Pág. 239-349

TITLE: Extraction of Visual Information Using Maximum Likelihood Hebbian Learning.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Fyfe, C.; Sáez, J.M.; ARROYO PUENTE, ANGEL; VAQUERIZO GARCIA, MARIA BELEN
- BOOK: SBRN'2002 - VII Brazilian Symposium On Neural Networks.
- DATE: noviembre, 2002 Pernambuco, Brasil.
- PUBLISHER: IEEE Computer Society
- Pág. 227-232

TITLE: Unsupervised Learning for Extracting Local Filters.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Fyfe, C.; Sáez, J.M.; ARROYO PUENTE, ANGEL; VAQUERIZO GARCIA, MARIA BELEN
- BOOK: IWPAAMS'2002. Internet, e-com and Artificial Intelligence I International Workshop on Practical Applications of Agents and Multiagent Systems.
- DATE: 11/2002
- PUBLISHER: University of Salamanca
- Pág. 251-259

TITLE: Maximum and Minimum Likelihood Hebbian Rules as an Exploratory Method.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Fyfe, C.
- BOOK: 9th International Conference on Neural Information Processing. ICONIP'02.
- DATE: 11/2002
- PUBLISHER: IEEE Catalog Number 02 EX575C

TITLE: Optimal Projections of High Dimensional Data.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; MacDonald, D.; Fyfe, C.
- BOOK: ICDM '02. The 2002 IEEE International Conference on Data Mining. 589-596
- DATE: 11/2002
- PUBLISHER: IEEE Catalog Number 02 EX575C

5.5.12 Year 2001

TITLE: Maximum Likelihood Hebbian Rules.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Fyfe, C.
- BOOK: 10th European Symposium on Artificial Neural Networks, ESANN'2002.
- DATE: 04/2001
- PUBLISHER: IEEE Computer Society

TITLE: Rectified Gaussian Distribution and the Formation of Local Filters From Video Data.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Charles, D.; Fyfe, C.
- BOOK: 10th European Symposium on Artificial Neural Networks, ESANN'2002.
- DATE: 04/2001
- PUBLISHER: D-Facto Publications. Edited by Michel Verleysen

TITLE: Rectified Gaussian Distribution and the Formation of Local Filters From Video Data.

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Charles, D.; Fyfe, C.
- BOOK: Soft Computing (SOCO'2001) and Intelligent Systems for Industry (ISFI'2001).
- DATE: 06/2001
- PUBLISHER: ICSC-NAISO Academic Press

TITLE: The Formation of Local Spatiotemporal Filters Using Lateral Connections

- AUTHOR(S): Corchado Rodríguez, Emilio Santiago; Han, Y.; Fyfe, C.; Charles, D.; Alonso, L.



- BOOK: Actas de la IX Conferencia de la Asociación Española para la Inteligencia Artificial, IV Jornadas de Transferencia Tecnológica de Inteligencia Artificial.
- DATE: 11/2001
- PUBLISHER: Comité Organizador CAEPIA-TTIA 2001

6 Conferences and events organized

6.1.1 Year 2012

PAAMS 2012: 10th International Workshop on Practical Applications of Agents and Multi-Agent Systems

- University of Salamanca. 28-30th March 2012 . Salamanca, Spain
- Web: <http://www.paams.net>

DCAI 2012: International Symposium on Distributed Computing and Artificial Intelligence

- University of Salamanca. 28-30th March 2012 . Salamanca, Spain
- Web: <http://dcai.usal.es>

PACBB 2012: 6th International Conference on Practical Applications of Computational Biology & Bioinformatics

- University of Salamanca. 28-30th March 2012 . Salamanca, Spain
- Web: <http://pacbb.usal.es>

ISAmI 2012: International Symposium on Ambient Intelligence

- University of Salamanca. 28-30th March 2012 . Salamanca, Spain
- Web: <http://isami.usal.es>

H AIS 2012: International Conference on Hybrid Artificial Intelligence Systems

- University of Salamanca. 28-30th March 2012 . Salamanca, Spain
- Web: <http://hais.usal.es/>

eBT EL 2012: International Workshop on evidenced-based Technology Enhanced Learning

- University of Salamanca. 28-30th March 2012 . Salamanca, Spain
- Web: <http://ebtel.usal.es/>

KMO 2012 Seventh International KMO Conference

- University of Salamanca. 11th -13th July 2012 . Salamanca, Spain
- Web: <http://kmo.usal.es/>

IS-MiS 2012 International Symposium on Management Intelligent Systems

- University of Salamanca. 11th -13th July 2012 . Salamanca, Spain
- Web: <http://ismis.usal.es/>

LTEC'12 Workshop on Learning Technology for Education in Cloud

- University of Salamanca. 11th -13th July 2012 . Salamanca, Spain
- Web: <http://ltec.usal.es/>



6.1.2 Year 2011

Intelligent systems for context-based information fusion) under the frame of IWANN 2011)

- Torremolinos (Málaga – Spain) 8-10th June, 2011
- Web: <http://iscif.usal.es>

9th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 11)

- Salamanca, 6-8 de abril, 2011, University of Salamanca, Spain
- Web: <http://www.paams.net/paams2011>

SOCO 2011: 6th International Workshop on Soft Computing Models in Industrial Applications

- Salamanca, 6-8 de abril, 2011, University of Salamanca, Spain
- Web: <http://soco.usal.es>

International Symposium on Distributed Computing and Artificial Intelligence (DCAI'11)

- Salamanca, 6-8 de abril, 2011, University of Salamanca, Spain
- Web: <http://dcai.usal.es>

5th International Conference on Practical Applications of Computational Biology & Bioinformatics (PACBB'11)

- Salamanca, 6-8 de abril, 2011, University of Salamanca, Spain
- Web: <http://www.pacbb.net>

International Symposium on Ambient Intelligence (ISAmI'11)

- Salamanca, 6-8 de abril, 2011, University of Salamanca, Spain
- Web: <http://isami.usal.es>

6.1.3 Year 2010

8th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 10)

- Salamanca, 26-28 de abril, 2010, University of Salamanca, Spain
- Web: <http://gsii.usal.es/~paams2010/>

ICEUTE 2010: First International Conference on European Transnational Education

- Burgos, 24 de Septiembre de 2010
- Web: <http://gicap.ubu.es/iceute2010/main/home.shtml>

HAI'S'10: 5th International Workshop on Hybrid Artificial Intelligence Systems

- 23-25 de June de 2010, San Sebastian, Spain
- Web: <http://www.ehu.es/ccwintco/hais2010>

SOCO 2010: 5th International Workshop on Soft Computing Models in Industrial Applications

- Guimarães, Portugal, 16 a 18 de June de 2010
- Web: <http://soco2010.di.uminho.pt/>

IEA/AIE 2010: Twenty Third International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems

- Cordobatugal, 1 al 4 de June de 2010
- Web: <http://www.iea-aie2010.org/>

4th Internactional Workshop on Soft Computing Models in Industrial Applications

- Guimarães, June, 16 – 18, 2010 , Universidad de Minho, Portugal
- Web: <http://iwpacbb2010.di.uminho.pt>

Ambient Intelligente (Aml 2010)

- 23-25 de June de 2010, San Sebastian, Spain
- Web: <http://www.ehu.es/ccwintco/hais2010>

13th International Conference on Information Fusion

- 26 - 29 de Julio de 2010, Edinburgh, UK
- Web: <http://www.fusion2010.org/index.htm>

International Symposium on Distributed Computing and Artificial Intelligence 2010 (DCAI'10)

- 10 de September de 2010, Valencia, Spain
- Web: <http://dcai.usal.es/~dcai2010/>

6.1.4 Year 2009

7th International Workshop on Practical Applications of Agents and Multi-Agent Systems

- Salamanca, 25-27 de marzo, 2009, University of Salamanca, Spain
- Web: <http://paams.usal.es>

10 th International Work-Conference on Artificial Neural Networks (IWANN2009)

- Salamanca, 10–12 June, 2009, University of Salamanca, Spain
- Web: <http://iwann.usal.es>

2nd International Symposium on Distributed Computing and Artificial Intelligence (DCAI'09)

- Salamanca, 10-12 de June, 2009, University of Salamanca, Spain
- Web: <http://dcai.usal.es>

3rd International Workshop on Practical Applications of Computational Biology & Bioinformatics (IWPACBB'09)

- Salamanca, 10-12 de June, 2009, University of Salamanca, Spain
- Web: <http://iwpacbb.usal.es>



International Workshop of Ambient Assisted Living 2009

- Salamanca, 10-12 de June, 2009, University of Salamanca, Spain
- Web: <http://iwaal.usal.es>

Madrinet 2009

- Salamanca, 10-12 de June, 2009 , University of Salamanca, Spain
- Web: <http://madrinet.usal.es>

HAIIS'09 – 4th International Workshop on Hybrid Artificial Intelligent Systems

- Salamanca, 10-12 de June, 2009, University of Salamanca, Spain
- Web: <http://hais.usal.es>

SOCO'09 - 4th International Workshop on Soft Computing Models in Industrial Applications

- Salamanca, 10-12 de June, 2009, University of Salamanca, Spain
- Web: <http://soco.usal.es>

CMMSE'09 - International Conference on Computational and Mathematical Methods in Science and Engineering, CMMSE 2009. Special Session: Mathematical Models in Artificial Intelligence.

- Gijón, 30 June - 3 Julio, 2009 , Universidad de Burgos, Spain
- Web: <http://gicap.ubu.es/ssessions/cmmse09>

NABIC 2009: Workshop - Bio-Inspired Models for Industrial Applications

- 4 al 7 de December de 2009
- Web: <http://gicap.ubu.es/ssessions/nabic09/>

SoCPaR 2009:Workshop - Nature Inspired Models for Industrial Applications

- 14 de September de 2009, Mlaacca, Malasy
- Web: <http://www.mirlabs.org/socpar/>

ISDA 2009: Workshop - Nature Inspired Models for Industrial Applications

- 30 de November al 2 de December de 2009, Pisa, Italy
- Web: <http://cig.iet.unipi.it/isda09/>

MIR Day 2009 - Machine Intelligence Research Day 2009 - Burgos

- 23 al 26 de September de 2009
- Web: <http://gicap.ubu.es/ideal2009/workshops/mirday-spain.shtml>

IDEAL 2009 10th International Conference on Intelligent Data Engineering and Automated Learning

- 23 al 26 de September de 2009, Burgos, Spain
- Web: <http://gicap.ubu.es/ideal2009/main/home.shtml>

CISIS'09 - 2nd International Workshop on Computational Intelligence in Security for Information Systems

- 23 al 26 de September de 2009, Burgos, Spain
- Web: <http://gicap.ubu.es/cisis2009/home/home.shtml>

6.1.5 Year 2008

International Symposium on Distributed Computing and Artificial Intelligence 2008

- Salamanca, 22-24 de octubre, 2008, University of Salamanca, Spain
- Web: <http://gsii.usal.es/~dcai>

3th Symposium of Ubiquitous Computing and Ambient Intelligence 2008

- Salamanca, 22-24 de octubre, 2008, University of Salamanca, Spain
- Web: <http://ucami.usal.es>

2nd International Workshop on Practical Applications of Computational Biology & Bioinformatics (IWPACBB'08)

- Salamanca, 22-24 de octubre, 2008, University of Salamanca, Spain
- Web: <http://gsii.usal.es/~iwpacbb>

MADRINET 2008 - User-Centric Technologies and Applications Workshop

- Salamanca, 22-24 de octubre, 2008, University of Salamanca, Spain
- Web: <http://gsii.usal.es/~madrinet2007>

CISIS'09 – 1st International Workshop on Computational Intelligence in Security for Information Systems

- 23 al 24 de October de 2008, Genova, Italy
- Web: <http://www.cisis2008.org/>

HAI5'08– 3rd International Workshop on Hybrid Artificial Intelligent Systems

- Burgos, Spain, 24-26 de September, 2009
- Web: <http://www2.ubu.es/hais2008/main/home.shtml>

6.1.6 Year 2007

CAEPIA 2007: Congreso de la Asociación Española para la Inteligencia Artificial

- Salamanca, 12-17 de noviembre, 2007, University of Salamanca, Spain
- Web: <http://cae pia.usal.es>

IWPAAMS 2007: International Workshop on Practical Applications of Agents and Multiagent Systems

- Salamanca, 13 de noviembre, 2007, University of Salamanca, Spain
- Web: <http://www.web.upsa.es/IWPAAMS2007/es/home.html>

IWANN 2007 Invited Session:Nature-inspired Intelligent Methods and Applications (NIIMA'2007)



- San Sebastian, Spain, 20 al 22 de June.
- Web: <http://gicap.ubu.es/sessions/IWANN07.htm>

HAI 2007 - 2nd International Workshop on Hybrid Artificial Intelligence Systems

- 12-13 de November, 2007, Salamanca
- Web: <http://www2.ubu.es/hais2007/>

KES 2007 Invited Session: Artificial Intelligence Applications in Security (AIAS 2007-KES2007)

- 12 al 14 de September de 2007, Vietri Sul Mare, Italy
- Web: <http://gicap.ubu.es/sessions/KES2.htm>

KES 2007 Invited Session: Artificial Intelligence Applications in Security (AIAS 2007-KES2007)

- 12 al 14 de September de 2007, Vietri Sul Mare, Italy
- Web: <http://gicap.ubu.es/sessions/KES1.htm>

6.1.7 Year 2006

IDEAL 2006: 7th International Conference on Intelligent Data Engineering and Automated Learning

- Burgos, 20-23 de septiembre, 2006, Universidad de Burgos, Spain.
- Web: <http://www2.ubu.es/ideal2006/>

IWPAAMS 2006: International Workshop on Practical Applications of Agents and Multiagent Systems

- Segovia, 13 de noviembre, 2007, Universidad de Valladolid, Spain

HAI 2006: Hybrid Artificial Intelligence Systems Workshop, Under the frame of the International Joint Conference IBERAMIA/SBIA/SBRN 2006

- 27 de October, 2006, Ribeirão Preto, SP, Brazil
- Web: <http://www.icmc.usp.br/iarn2006/>

6.1.8 Year 2004

IWPAAMS 2004 - 4th International Workshop on Practical Applications of Agents and Multiagent Systems

- Web: <http://www2.ubu.es/gicap/iwpaams2004/index.html>

6.1.9 Year 2003

IWPAAMS 2003: First International Workshop on Practical Applications of Agents and Multiagent Systems

- Salamanca, 10-12 November, 2007, University of Salamanca.

6.1.10 Year 2000

SEID 2000: 4th Spanish Symposium on Distributed Computing

- Ourense, 25-27 Sept., 2000, Universidad de Vigo

7 Formation

7.1 Masters

Master in E-Commerce

- WEB: <http://master-ecom.usal.es>
- DESCRIPTION: The objective of this course is to create computer science experts in the development of e-commerce systems. This requires an in-depth study of aspects related to the development of B2B and B2C systems, problem analysis, of their exploitation and maintenance, as well as aspects related to their security, portability and reusability. Includes a review of practical cases from the perspective of the analyst, system developer, business administrator, user, lawyer and marketing expert. Given the rise in network security, mobile telephony, and wireless networks, the program includes a series of modules focused in each of these areas.

Master in Digital Animation

- WEB: <http://animaciondigital.usal.es>
- DESCRIPTION: University-specific degree for those with high level and technical degrees, or undergraduates from Fine Arts, Audiovisual Sciences, Economics, Business Administration, Computer Science Engineering, etc. Students who have graduated or are in their last year of an undergraduate program with experience in art, graphic arts or audiovisual communication may also be admitted. The course includes a series of practical and theoretical topics that allow the students to understand the techniques, methods, models and tools used in the development of these products at a commercial level. In order to successfully complete the course, students are required to complete a series of individual and group projects, and to prepare and defend their project to a committee. Students will receive training that will allow them to understand the complete process of developing digital animation projects, and will be prepared to enter the workforce and be able to work in this field under the supervision of an experienced professional or with a degree of autonomy.

Máster in ICT Consulting

- WEB: <http://mac-tic.usal.es>
- DESCRIPTION: University-specific degree in which knowledge of the professional implications, the economic and legal risks of using computer science and telematics tools in business, and of the use and access of the Internet are brought together with the principles and rights of data protection, as established in individual state and European standards, with special attention given to the responsibilities of the file owners. Analysis of the responsibilities of e-commerce service providers, and the aspects and points that an e-firm should consider. Study of intellectual property and legal protection for software, databases and multimedia products, eProcurement, electronic legal issues, billing and electronic payment. Finally, the course will study second generation networks based on user communities and an array of services such as social networks, blogs, wikis, or folksonomies, which encourage the



collaboration and easy exchange of information among users of a community or social network.

7.2 Professional Courses

- Certificación profesional en seguridad informática CERTYRED
- Experto en el desarrollo de negocio electrónico, el teletrabajo y el elearning
- Experto en la Planificación de recursos empresariales y en herramientas ERPs
- Experto en Gestión de Relaciones con los Consumidores (herramientas CRM), en la toma de decisiones y la gestión Financiera
- Curso Avanzado de programación de iPhone con el SDK de Apple
- Experto en Arquitectura SOA
- Curso de Programación de videojuegos con J2ME y MIDP para móviles
- Curso de desarrollo de juegos para PC y móviles con FLASH

7.3 Special courses

7.3.1 Year 2012

- Introducción a la Auditoría Informática: 3ª Edición
- Avances en el desarrollo del software para iPhone: 3ª Edición
- Avances en tecnología Chip: 2ª Edición
- Avances en Seguridad en Internet: 10ª Edición
- Avances en Telefonía Móvil: 10ª Edición
- Avances en el desarrollo de software para Android: 3ª Edición
- Avances en el desarrollo de software para Windows Phone 7: 3ª Edición

7.3.2 Year 2011

- Introducción a la Auditoría Informática: 2ª Edición
- Avances en el desarrollo del software para iPhone: 2ª Edición
- Avances en tecnología Chip: 1ª Edición
- Avances en Seguridad en Internet: 9ª Edición
- Avances en el desarrollo de software para Android: 2ª Edición

7.3.3 Year 2010

- Introducción a la Auditoría Informática: 1ª Edición
- Avances en el desarrollo del software para iPhone: 1ª Edición
- Avances en Seguridad en Internet: 8ª Edición
- Avances en el desarrollo de software para Android: 1ª Edición
- Avances en Telefonía Móvil: 9ª Edición
- Curso Avanzado de JME y MIDP 2.0: 2ª Edición
- Modelo de Calidad del Software CMMI: 1ª Edición

7.3.4 Year 2009

- Avances en Telefonía Móvil: 8ª Edición

- Curso Avanzado de J2ME y MIDP 2.0: 1ª Edición
- Avances en Seguridad en Internet: 7ª Edición
- Generación de Contenido Dinámico para la Web: 1ª Edición

7.3.5 Year 2008

- Avances en Telefonía Móvil: 7ª Edición
- Avances en Seguridad en Internet: 6ª Edición

7.3.6 Year 2007

- Avances en Telefonía Móvil: 6ª Edición
- Avances en Seguridad en Internet: 5ª Edición

7.3.7 Year 2006

- Avances en Telefonía Móvil: 5ª Edición
- Avances en Seguridad en Internet: 4ª Edición

7.3.8 Year 2005

- Avances en Telefonía Móvil: 4ª Edición
- Avances en Seguridad en Internet: 3ª Edición

7.3.9 Year 2004

- Avances en Telefonía Móvil: 3ª Edición
- Avances en Seguridad en Internet: 2ª Edición

7.3.10 Year 2003

- Avances en Seguridad en Internet: 1ª Edición
- Avances en Telefonía Móvil: 2ª Edición

7.3.11 Year 2002

- Avances en Telefonía Móvil: 1ª Edición
- Seguridad en Internet

7.4 Summer Courses

7.4.1 Year 2012

- Avances en comercio y negocio en Internet: 8ª Edición

7.4.2 Year 2011

- Avances en comercio y negocio en Internet: 7ª Edición

7.4.3 Year 2010

- Avances en comercio y negocio en Internet: 6ª Edición



7.4.4 Year 2009

- Avances en comercio y negocio en Internet: 5ª Edición

7.4.5 Year 2008

- Avances en comercio y negocio en Internet: 4ª Edición

7.4.6 Year 2007

- Avances en comercio y negocio en Internet: 3ª Edición

7.4.7 Year 2006

- Avances en comercio y negocio en Internet: 2ª Edición

7.4.8 Year 2005

- Avances en comercio y negocio en Internet: 1ª Edición

8 Thesis

TITLE: Recuperación Inteligente de Contenidos Digitales Educativos.

- PhD STUDENT:: Ana Belén Gil González
- UNIVERSITY: Departamento de Informática, University of Salamanca
- DATE: April 2010
- GRADE: Sobresaliente Cum Laude.

TITLE: Modelo adaptativo para organizaciones virtuales de agentes.

- PhD STUDENT:: Sara Rodríguez González
- UNIVERSITY: Departamento de Informática, University of Salamanca
- DATE: April 2010
- GRADE: Sobresaliente Cum Laude.

TITLE: Modelo de planificación dinámica para la extracción de conocimiento en expresiones genéticas.

- PhD STUDENT:: Juan Francisco de Paz Santana
- UNIVERSITY: Departamento de Informática, University of Salamanca
- DATE: April 2010
- GRADE: Sobresaliente Cum Laude.

TITLE: Arquitectura Multiagente para Entornos de Inteligencia Ambiental.

- PhD STUDENT:: Dante Israel Tapia Martínez
- UNIVERSITY: Departamento de Informática, University of Salamanca
- DATE: March 2009
- GRADE: Sobresaliente Cum Laude.

TITLE: Modelo de Socioconfiguración para Sistemas Multiagente en Dispositivos Inalámbricos.

- PhD STUDENT:: Luís Fernando Castillo Ossa
- UNIVERSITY: Departamento de Informática, University of Salamanca
- DATE: November 2007
- GRADE: Sobresaliente Cum Laude.

TITLE: Arquitectura Multiagente Ligera: Convergiendo hacia la Inteligencia Ambiental.

- PhD STUDENT:: Javier Bajo Pérez
- UNIVERSITY: Departamento de Informática, University of Salamanca
- DATE: October 2007
- GRADE: Sobresaliente Cum Laude.

TITLE: Fundamentos Cognitivos para el diseño de arquitecturas de agentes planificadores en contextos dinámicos de acción.

- PhD STUDENT:: Manuel Andrés González Bédia.
- UNIVERSITY: Departamento de Informática y Automática, University of Salamanca.



- DATE: 14 October 2004.
- GRADE: Sobresaliente Cum Laude.

TITLE: Sistema híbrido Inteligente Aplicado a la Auditoria de los sistemas internos.

- PhD STUDENT:: María Lourdes Borrajo Diz.
- UNIVERSITY: Departamento de Informática, Universidad de Vigo.
- DATE: 17 December 2003.
- GRADE: Sobresaliente Cum Laude.

TITLE: Automatización de la Construcción de Agentes deliberativos utilizando un sistema de razonamiento basado en casos.

- PhD STUDENT:: Rosalía Laza Hidalgo.
- UNIVERSITY: Departamento de Informática, Universidad de Vigo.
- DATE: 14 October 2003.
- GRADE: Sobresaliente Cum Laude.

TITLE: Aprendizaje y Generación Automática de Conocimiento. Construcción de Redes Bayesianas mediante Rough Sets.

- PhD STUDENT:: Fernando Díaz Gómez.
- UNIVERSITY: Departamento de Informática, Universidad de Vigo.
- DATE: 21 June 2002.
- GRADE: Sobresaliente Cum Laude.

TITLE: Metodología para le Reutilización de Especificaciones de requisitos en entornos Organizativos Complejos, Aplicación a la gestión Universitaria.

- PhD STUDENT: Antonio Domínguez Iglesias.
- UNIVERSITY: Departamento de Informática, Universidad de Vigo.
- DATE: 6 September 2002.

TITLE: Modelo neuro-simbólico para la predicción no supervisada de entornos cambiantes.

- PhD STUDENT:: Florentino Fernández Riverola.
- UNIVERSITY: Departamento de Informática, Universidad de Vigo.
- DATE: 18 October 2002.
- GRADE: Sobresaliente Cum Laude.

TITLE: Modelo VOIP como Solución para la Convergencia de Redes.

- PhD STUDENT:: Marcos Valiño García.
- UNIVERSITY: Departamento de Informática, Universidad de Vigo.
- DATE: 23 June 2000
- GRADE: Sobresaliente Cum Laude

TITLE: Arquitectura Multiagente para la Gestión Autónoma de Procesos Empresariales.

- PhD STUDENT:: Assunció Pellicer Figueras
- UNIVERSITY: Escuela Politécnica Superior, Universidad de Burgos.
- DATE: June 2008

9 Partners

9.1 Companies





VNIVERSIDAD
D SALAMANCA



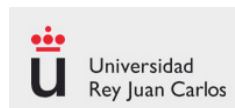
RESTALO S.L.



CONSULTORES
EN CIUDADES
PATRIMONIO
& TURISMO



9.2 Universities / Research Centres



Universidad de Burgos

Universidad de Valladolid



Universidad de Granada



Universidad de Murcia



10 Technology Platforms

The fact that BISITE belongs to the Spanish and European technological platforms is very important in our effort to increase the presence of the University of Salamanca in national and international research forums. With these platforms it is possible to coordinate and encourage partnerships between public and private R&D organizations. This allows BISITE to be near R&D initiatives, both national and international, and to be in the forefront of European projects for which this platform serves as a catalyzing agent.

10.1 Spanish Platforms



<http://www.idi.aetic.es/esInternet>



<http://www.idi.aetic.es/evia>



<http://www.idi.aetic.es/esec>



<http://www.idi.aetic.es/enem>



<http://www.idi.aetic.es/emov>



<http://www.idi.aetic.es/eisi>



<http://www.ines.org.es>



<http://www.redhotech.net>



<http://pthd.asimelec.es>



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D SALAMANCA



<http://ptgreentic.asimelec.es>



<http://ptcd.asimelec.es>



<http://www.prometeo-office.org/>



<http://www.explor3d.org>

10.2 European Platforms



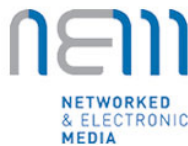
<http://www.artemisia-association.org>



<http://www.nessi-europe.com>



<http://www.emobility.eu.org>



<http://www.nem-initiative.org>