

DEPARTAMENTO DE
INFORMATICA

DEPARTAMENTO DE INFORMÁTICA

Áreas de conocimiento:

- ARQUITECTURA Y TECNOLOGIA DE COMPUTADORES
- CIENCIA DE LA COMPUTACION E INTELIGENCIA ARTIFIC.
- LENGUAJES Y SISTEMAS INFORMATICOS

ÁREA DE CONOCIMIENTO: ARQUITECTURA Y TECNOLOGÍA DE COMPUTADORES

Actividades de investigación

Tesis Doctorales

- New techniques to model energy aware i/o architectures based on ssd
Autores: PRADA, L.
Director: CARRETERO, J.; GARCIA, J.D.
Año: 2012

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas internacionales

- CALDERON, A. ; GARCIA-CARBALLEIRA, F. ; BERGUA, B.M.; SANCHEZ, L.M.; CARRETERO, J.
Expanding the volunteer computing scenario: A novel approach to use parallel applications on volunteer computing , *Future generation computer systems*, Vol. 28, Núm. 6, 2012, pp. 881-889, HOLANDA.
- ESCOLAR, M. S. ; CHESSA, S.; CARRETERO, J.; MARINESCU, M.C.
Cross Layer Adaptation of Check Intervals in Low Power Listening MAC Protocols for Lifetime Improvement in Wireless Sensor Networks , *Sensors*, Vol. 12, Núm. 8, 2012, pp. 10511-10535, SUIZA.
- FILGUEIRA, R.; CARRETERO, J.; EXPOSITO, D.; CALDERON, A. ; NUÑEZ, A.
Dynamic-compi: Dynamic optimization techniques for MPI parallel applications, *Journal of supercomputing*, Vol. 59, Núm. 1, 2012, pp. 361-391, HOLANDA.
- GOMEZ, C.; SAA, R.; GARCIA, A.; GARCIA-CARBALLEIRA, F. ; CARRETERO, J.
A model to obtain optimal designs of railway overhead knuckle junctions using simulation , *Simulation modelling practice and theory*, Vol. 26, 2012, pp. 16-31, HOLANDA.
- MALIZIA, A.; BELLUCCI, A.
The Artificiality of Natural User Interfaces, *Communications of the ACM* , Vol. 55, Núm. 3, 2012, pp. 36-38, ESTADOS UNIDOS DE AMERICA.

- MARTIN, G.; MARINESCU, M.C.; EXPOSITO, D.; CARRETERO, J.
Leveraging social networks for understanding the evolution of epidemics , *BMC systems biology*, Vol. 5, Núm. (Suppl 3):S14 , 2012, REINO UNIDO.
- NUÑEZ, A.; FERNANDEZ, J. ; FILGUEIRA, R.; GARCIA-CARBALLEIRA, F. ; CARRETERO, J.
SIMCAN: A flexible, scalable and expandable simulation platform for modelling and simulating distributed architectures and applications , *Simulation modelling practice and theory*, Vol. 20, Núm. 1, 2012, pp. 12-32, HOLANDA.
- NUÑEZ, A.; VAZQUEZ, J.; CAMINERO, A.; GONZALEZ, G.; CARRETERO, J.; LLORENTE, I.
iCanCloud: A Flexible and Scalable Cloud Infrastructure Simulator , *Journal of grid computing*, Vol. 10, Núm. 1, 2012, pp. 185-209, HOLANDA.
- SAA, R.; GARCIA, A.; GOMEZ, C.; CARRETERO, J.; GARCIA-CARBALLEIRA, F.
An ontology-driven decision support system for high-performance and cost-optimized design of complex railway portal frames , *Expert systems with applications*, Vol. 39, Núm. 10, 2012, pp. 8784-8792, REINO UNIDO.

Ponencias y Comunicaciones a congresos

- CARRETERO, J.; ISAILA, F.D.; KERMARREC, A.M.; TAÏANI, F.; TIRADO, J.M.
Geology: Modular Georecommendation in Gossip-Based Social Networks; en: Distributed Computing Systems (ICDCS), 2012 IEEE 32nd International Conference on, IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.
- CENAMOR, I.R.; DE LA ROSA, T.; FERNANDEZ, F.
Mining IPC-2011 Results; en: WS-IPC 2012. Proceedings of the 3rd Workshop on the International Planning Competition, AAAI Press. Association for the Advancement of Artificial Intelligence , 2012.
- CHESSA, S.; ESCOLAR, M. S. ; PELAGATTI, S.; BARONTI, P.; CARRETERO, J.
Guaranteed-delivery in arbitrary dimensional Wireless Sensor Networks by means of recursive virtual coordinates; en: 2012 IEEE Symposium on Computers and Communicatios (ISCC), IEEE Press, 2012.
- ESCOLAR, M. S. ; CHESSA, S.; CARRETERO, J.
Optimization of Quality of Service in Wireless Sensor Networks Powered by Solar Cells; en: 2012 IEEE 10th International Symposium on Parallel and Distributed Processing with Applications (ISPA), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, , 2012.
- FILGUEIRA, R.; ATKINSON, M.; NUÑEZ, A.; FERNANDEZ, J.
An Adaptive, Scalable, and Portable Technique for Speeding Up MPI-based Applications; en: Euro-Par 2012 Parallel Processing: Proceedings of the 18th International Conference. Euro-Par 2012, SPRINGER , 2012.
- GONZALEZ, J.L.; SOSA-SOSA, V.; BERGUA, B.M.; SANCHEZ, L.M.; CARRETERO, J.
Fault-Tolerant Middleware Based on Multistream Pipeline for Private Storage Services, 7th International Conference for Internet Technology and Secured Transactions (ICITST-2012), LONDRES, REINO UNIDO, 2012.
- HIGUERO, D.; TIRADO, J.M.; ISAILA, F.D.; CARRETERO, J.
Enhancing File Transfer Scheduling and Server Utilization in Data Distribution Infrastructures; en: 2012 IEEE 20th International Symposium on Modelling, Analysis & Simulation of Computer and Telecommunication Systems (MASCOTS), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.

- LIRIA, E.; GARCIA, F.J.; ISAILA, F.D.; ABELLA, M.; DESCO, M.
Paralelización de un algoritmo de reconstrucción tomográfica de rayos X para plataformas híbridas basadas en multi-GPU y multi-core; en: Actas de las XXIII Jornadas de Paralelismo (JP 2012) : Jornadas Sarteco, 19-21 septiembre 2012, Elche, (1ª ed.), Universidad Miguel Hernández (UMH), , 2012.
- LIRIA, E.; HIGUERO, D.; ABELLA, M.; DE MOLINA, C.; DESCO, M.
Exploiting parallelism in a X-ray tomography reconstruction algorithm on hybrid multi-GPU and multi-core platforms; en: Proceedings of the 2012 10th IEEE International Symposium on Parallel and Distributed Processing with Applications, IEEE COMPUTER SOCIETY, , 2012.
- PRADA, L.; CALDERON, A. ; GARCIA, F.J.; GARCIA, J.D.; CARRETERO, J.
A Black Box Model for Storage Devices based on Probability Distributions; en: 2012 IEEE 10th International Symposium on Parallel and Distributed Processing with Applications (ISPA), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC., , 2012.
- RODRIGO, F.J.; GARCIA, F.J.; CARRETERO, J.
MemcachedFS: sistema de ficheros para clusters basado en memoria distribuida; en: Actas de las XXIII Jornadas de Paralelismo (JP 2012) : Jornadas Sarteco, 19-21 septiembre 2012, Elche, (1ª ed.), , 2012.
- SAA, R.; GARCIA, A.; GOMEZ, C.; GARCIA-CARBALLEIRA, F. ; CARRETERO, J.
A High-productivity Computational Tool to Model and Calculate Railway Catenary Support Structures, World Congress on Engineering 2012. The 2012 International Conference of Computer Science and Engineering, LONDRES, REINO UNIDO, 2012.
- SANCHEZ, L.M.; FERNANDEZ, J. ; SOTOMAYOR, R.; GARCIA, J.D.
Evaluación comparativa de modelos de programación paralela en arquitectura de memoria compartida; en: Actas de las XXIII Jornadas de Paralelismo (JP 2012): Jornadas Sarteco, 19-21 septiembre 2012, Elche, UNIVERSIDAD MIGUEL HERNANDEZ, , 2012.
- SANCHEZ, L.M.; FERNANDEZ, J. ; SOTOMAYOR, R.; GARCIA, J.D.
A Comparative Evaluation of Parallel Programming Models for Shared-Memory Architectures; en: Proceedings 10th International Symposium on Parallel and Distributed Processing with Applications (ISPA-12, Madrid, IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC., , 2012.
- TIRADO, J.M.; HIGUERO, D.; ISAILA, F.D.; CARRETERO, J.
Reconciling Dynamic System Sizing and Content Locality through Hierarchical Workload Forecasting; en: 2012 IEEE 18th International Conference on Parallel and Distributed Systems (ICPADS), IEEE COMPUTER SOCIETY, 2012.

Propiedad Industrial/intelectual

- *Inventores*: FRAGA, A.; MORENO, V. ; JUAN LLORENS; SUÁREZ, P.; PARRA, E.
Patente Nacional OT 5063. Patrones Semánticos
Titular: UNIVERSIDAD CARLOS III DE MADRID
Fecha Solicitud: 01/01/2012
- *Inventores*: MORENO, V. ; MORATO, J. L. ; SANCHEZ-CUADRADO, S. ; PARRA, E.
Monek desktop search
Titular: UNIVERSIDAD CARLOS III DE MADRID
Número Solicitud: **M-001076/2012**
Fecha Solicitud: 09/02/2012

Actividades de formación y movilidad de personal investigador

Estancias en otros centros

- **LUIS MIGUEL SANCHEZ GARCIA**
Título: Estancia de 3 meses de duración en el HLRS: Stuttgart supercomputing center, financiado por el proyecto HPC-Europa 2
Centro Externo: el HLRS: Stuttgart supercomputing center País: Alemania
País: ALEMANIA
Duración: 01/06/2012 a 30/11/2012.

- **MARIA SOLEDAD ESCOLAR DIAZ**
Título: Beca de Movilidad para Profesores de las Universidades Públicas de Madrid en la Convocatoria 2012/2013 con una cuantía de 18,000 euros. Junio de 2012. La beca financió una estancia de 6 meses en la Texas A&M University (Estados Unidos) para desarrollar trabajos de investigación con el Prof. Bjarne Stroustrup
Centro Externo: Texas A&M University (Estados Unidos)
País: ESTADOS UNIDOS DE AMERICA
Duración: 01/06/2012 a 30/11/2012.

Estancias de investigadores externos en la universidad

- **JESUS CARRETERO PEREZ**
Título: Estancia de 1 año de duración, desde julio 2011 hasta julio 2012 en el grupo de investigación ARCOS, colaborando en las actividades del mismo, Investigador: José Luis González
Investigador Externo: GONZÁLEZ, J.L.
Centro Externo: Instituto Tecnológico del Valle. San Luis Potosí. Méjico
País: MEXICO
Duración: 01/07/2011 a 30/06/2012.

ÁREA DE CONOCIMIENTO: CIENCIA DE LA COMPUTACION E INTELIGENCIA ARTIFIC.

Actividades de investigación

Tesis Doctorales

- Anotacion funcional de proteinas basada en representación relacional
Autores: GARCIA, B.
Director: SANCHIS, M. A.
Año: 2012
- Application of Multiobjective Evolutionary Techniques for Robust Portfolio Optimization
Autores: GARCIA, S.
Director: GALVAN, I. M. ; QUINTANA, D.
Año: 2012
- Busqueda rapida de caminos en grafos de alta cardinalidad estaticos y dinámicos
Autores: RIVERO, J.
Director: CUADRA, M. D. ; CALLE, F. J.
Año: 2012
- Diseño analisis y evaluacion de conjuntos de clasificadores basados en redes de neuronas
Autores: SESMERO, M.P.
Director: SANCHIS, M. A. ; GUTIERREZ, G.
Año: 2012
- Diseño automático de redes de neuronas artificiales para la predicción de series temporales
Autores: PERALTA, J.
Director: SANCHIS, M. A. ; GUTIERREZ, G.
Año: 2012
- Gestión avanzada de turnos para la interacción natural
Autores: VALLE, D.D.
Director: CUADRA, M. D. ; CALLE, F. J.
Año: 2012
- Human Action Recognition in Visual Sensor Networks. A data Fusion Perspective
Autores: CILLA, R.
Director: PATRICIO, M. A. ; BERLANGA, A.
Año: 2012

- Improvements On The Enforcement Process Based On Intelligent Transportation
Autores: DE FUENTES, J.M.
Director: GONZALEZ-TABLAS, A. I. ; RIBAGORDA, A.
Año: 2012
- Information leakage and steganography: detecting and blocking covert channels
Autores: BLASCO, J.
Director: PERIS, P.; HERNÁNDEZ, J.C.
Año: 2012
- ITAKA: Gestión interactiva del conocimiento en organizaciones de desarrollo de Software
Autores: HEREDIA, A.
Director: AMESCUA, A. D. ; GARCIA, J.
Año: 2012
- Marco Metodológico Para La Mejora De Las Actividades De Verificación y Validación De Productos Software
Autores: SANZ, A.
Director: GARCIA, J. ; AMESCUA, A. D.
Año: 2012
- Marco para la asignación de paquetes de trabajo en entornos de desarrollo global de software
Autores: RUANO, M.
Director: GARCIA, A.; COLOMO, R.
Año: 2012
- Patrones de Proyectos Para Gestionar El Conocimiento En Organizaciones de Desarrollo Software
Autores: MARTIN, D.
Director: JUAN LLORENS; GARCIA, J.
Año: 2012
- Sistema multiagente basado en contexto, localización y reputación para domosios de inteligencia ambiental
Autores: VENTURINI, V.M.
Director: MOLINA, J. M. ; CARBO, Javier
Año: 2012

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas nacionales

- CALVO, M.D.R.; MORENO, L. ; IGLESIAS, A. M.
Requirements elicitation for designing an accessible chat = Captura de requisitos para el diseño de un chat accesible , *Revista española de innovación, calidad e ingeniería del software*, Vol. 8, Núm. 1, 2012, pp. 7-21, ESPAÑA.
- LUCIO-NIETO, T.; COLOMO, R.; MORA, J.A.
Hacia una oficina de gestión de servicios en el ámbito de ITIL , *Revista de procesos y métricas de las tecnologías de la información*, Vol. 9, Núm. 1, 2012, pp. 12-28, ESPAÑA.
- SABATER-MIR, J.; CARBO, Javier; VENTURINI, V.M.; MOLINA, J. M.
La confianza y la reputación en los sistemas multiagente , *Novática*, Núm. 218, 2012, pp. 25-30, ESPAÑA.

- SANCHEZ, D.; LANA, S.; ANTONIO, M.; CAMPILLOS, L.; MARTINEZ, P.; SEGURA, I.
Prototipo buscador de información médica en corpus multilingües y extractor de información sobre fármacos = Medical information search and information extraction about drugs prototype on a multilingual corpus , *Procesamiento del lenguaje natural*, Vol. 49, 2012, pp. 209-212, ESPAÑA.
- SANCHEZ-CUADRADO, S. ; MARIA-JESUS COLMENERO-RUIZ; MOREIRO, J. A.
Tesauros: estándares recomendaciones , *El Profesional de la informacion*, Vol. 21, Núm. 3, 2012, pp. 229-235, ESPAÑA.
- VILLENA, J. ; MORENO, L. ; MARTINEZ, P.
Sistema SAGAS: herramienta de soporte al subtítulo para personas sordas , *Procesamiento del lenguaje natural*, Núm. 49, 2012, pp. 217-220, ESPAÑA.

Publicaciones en revistas científicas internacionales

- AEDO, I. ; DIAZ, M. P. ; ACUÑA, P.A.; ONORATI, T.
Personalized Alert Notifications and Evacuation Routes in Indoor Environments, *Sensors*, Vol. 12, Núm. 6, 2012, pp. 7804-7827, SUIZA.
- ALBACETE, E.; CALLE, F. J. ; CASTRO, E. ; CUADRA, M. D.
Semantic Similarity Measures Applied to an Ontology for Human-Like Interaction , *Journal of Artificial Intelligence Research*, Vol. 44, 2012, pp. 397-421, ESTADOS UNIDOS DE AMERICA.
- ALER, R. ; GALVAN, I. M. ; VALLS, J. M.
Applying evolution strategies to preprocessing EEG signals for brain-computer interfaces, *Information sciences*, Vol. 215, 2012, pp. 53-56, HOLANDA.
- ALER, R. ; VEGA, A.; GALVAN, I. M. ; NEBRO, A.
Multi-objective metaheuristics for preprocessing EEG data in brain-computer interfaces, *Engineering optimization*, Vol. 44, Núm. 3, 2012, pp. 373-390, HOLANDA.
- ALJUMAILY, H.T.A.; MARTINEZ, P.; MARTINEZ, J.L.; VAN DER GOOT, E.
A real time Named Entity Recognition system for Arabic text mining, *Language resources and evaluation*, Vol. 46, 2012, pp. 543-563, HOLANDA.
- BAIER, J.; BEKRIS, K.; CHEN, Y.; GARCEZ, A.S.A.; HITZLER, P.; HASLUM, P.; JANNACH, D.; LAW, E.; LECUE, F.; LAMB, L.C.; MATUSZEK, C.; PALACIOS, H.L.; STURTEVANT, N.; STERN, R.; TELLEX, S.; VASSOS, S.
Reports of the AAAI 2012 Conference Workshops, *AI Magazine*, Vol. 33, 2012, pp. 119-126, ESTADOS UNIDOS DE AMERICA.
- BARRERO, D.F.; HERNANDEZ, J. C. ; PERIS, P.; CAMACHO, D. ; RODRIGUEZ, M. D.
A genetic tango attack against the David-Prasad RFID ultra-lightweight authentication protocol , *Expert systems*, 2012, REINO UNIDO.
- BLASCO, J.; HERNANDEZ, J. C. ; DE FUENTES, J.M.; RAMOS, B.
A framework for avoiding steganography usage over HTTP , *Journal of Network and Computer Applications*, Vol. 35, Núm. 1, 2012, pp. 491-501, ESTADOS UNIDOS DE AMERICA.
- BLASCO, J.; HERNANDEZ, J.C.; ESTEVEZ, J.M.; RIBAGORDA, A.
Bypassing information leakage protection with trusted applications , *Computers and security*, Vol. 31, Núm. 4, 2012, pp. 557-568, HOLANDA.

- BLAZQUEZ, G.; BERLANGA, A. ; MOLINA, J. M.
InContexto: Multisensor Architecture to Obtain People Context from Smartphones, *International journal of distributed sensor networks*, 2012, ESTADOS UNIDOS DE AMERICA.
- BORRAJO, D. ; LINARES, C.; LIKHACHEV, M.
The Symposium on Combinatorial Search, *AI Communications*, Vol. 25, 2012, pp. 209-210, HOLANDA.
- CASADO, C.; RODRIGUEZ, A.; ALVAREZ, J.M.; COLOMO, R.
PsyDis: Towards a diagnosis support system for psychological disorders , *Expert systems with applications*, Vol. 39, Núm. 13, 2012, pp. 11391-11403, REINO UNIDO.
- CILLA, R.; PATRICIO, M. A. ; BERLANGA, A.
A probabilistic, discriminative and distributed system for the recognition of human actions from multiple views, *Neurocomputing*, Vol. 75, Núm. 1, 2012, pp. 78-87, HOLANDA.
- COLES, A.; COLES, A.; GARCIA, A.; JIMENEZ, S. ; LINARES, C.; SANNER, S.; YOON, S.
A Survey of the Seventh International Planning Competition, *AI Magazine*, Vol. 33, Núm. 1, 2012, pp. 83-88, ESTADOS UNIDOS DE AMERICA.
- COLOMO, R.; CASADO, C.; SOTO, P.; MISRA, S.; GARCIA, F.J.
Analyzing Human Resource Management Practices Within the GSD Context , *Journal of Global Information Technology Management*, Vol. 15, Núm. 3, 2012, pp. 30-54, ESTADOS UNIDOS DE AMERICA.
- COLOMO, R.; CASADO, C.; SOTO, P.; GARCIA, A.
Using the Affect Grid to Measure Emotions in Software Requirements Engineering, *Journal of universal computer science*, Vol. 17, Núm. 9, 2012, pp. 1281-1298, AUSTRIA.
- COLOMO, R.; FERNANDES, E.; SABBAGH, M.; AMESCUA, A. D.
Human and Intellectual Capital Management in the Cloud: Software Vendor Perspective, *Journal of universal computer science*, Vol. 18, Núm. 11, 2012, pp. 1544-1557, AUSTRIA.
- COLOMO, R.; GONZALEZ, I. ; LOPEZ, J. L. ; GARCIA, A.
Resyster: A hybrid recommender system for scrum team roles based on fuzzy and rough sets, *International Journal of Applied Mathematics and Computer Science*, Vol. 22, Núm. 4, 2012, pp. 801-816, POLONIA.
- COLOMO, R.; MESSNARZ, R.; BIRO, M.
Special Issue: European Systems and Software Process Improvement and Innovation (EuroSPI), *IET software*, Vol. 6, 2012, pp. 403-404, REINO UNIDO.
- COLOMO, R.; SANCHEZ, J.L.; ALOR, G.; RODRIGUEZ, A.
Linked Data: Perspectives for IT Professionals , *International journal of human capital and information technology professionals*, Vol. 3, Núm. 3, 2012, pp. 1-12, ESTADOS UNIDOS DE AMERICA.
- COLOMO, R.; SOTO, P.; GARCÍA, F.J.; GARCIA, A.
A study of the impact of global software development in packaged software release planning, *Journal of universal computer science*, Vol. 18, Núm. 19, 2012, pp. 2646-2668, AUSTRIA.
- CRESCENZI, P.; MALIZIA, A.; VERRI, M.; DIAZ, M. P. ; AEDO, I.
Integrating Algorithm Visualization Video into a First-Year Algorithm and Data Structure Course, *Educational Technology & Society*, Vol. 15, Núm. 2, 2012, pp. 115-124, ALEMANIA.
- CUADRA, M. D. ; MARTINEZ, P.; CASTRO, E. ; ALJUMAILY, H.T.A.
Guidelines for representing complex cardinality constraints in binary and ternary relationships, *Software and systems modeling*, 2012, ALEMANIA.

- DE FUENTES, J.M.; GONZALEZ-TABLAS, A. I. ; LOPEZ, J.; RIBAGORDA, A.
Towards an automatic enforcement for speeding: enhanced model and intelligent transportation systems realisation, *IET intelligent transport systems*, Vol. 6, 2012, pp. 270-281, REINO UNIDO.
- DE PABLO, C.; SEGURA, I. ; MARTINEZ, P.; IGLESIAS, A. M.
Lightly supervised acquisition of named entities and linguistic patterns for multilingual text mining , *Knowledge and information systems (electronic resource)*, 2012, pp. 1-23, SINGAPUR.
- ESTEVEZ, J.M.; HERNANDEZ, J. C. ; PERIS, P.
Online Randomization Strategies to Obfuscate User Behavioral Patterns, *Journal of Network and Systems Management*, Vol. 20, Núm. 4, 2012, pp. 561-578, ESTADOS UNIDOS DE AMERICA.
- FERNANDEZ, S. ; BORRAJO, D.
Using linear programming to solve clustered oversubscription planning problems for designing e-courses, *Expert systems with applications*, Vol. 39, Núm. 5, 2012, pp. 5178-5188, REINO UNIDO.
- FLÓREZ, J.E.; CARBO, Javier; FERNANDEZ, F.
A Meta-tool to Support the Development of Knowledge Engineering Methodologies and Projects, *International journal of software engineering and knowledge engineering*, Vol. 22, Núm. 8, 2012, pp. 1055-1083, SINGAPUR.
- GARCIA , F.J.; COLOMO, R.; GARCIA, J.; THERON, R.
Towards an ontology modeling tool. A validation in software engineering scenarios , *Expert systems with applications*, Vol. 39, Núm. 13, 2012, pp. 11468-11478, REINO UNIDO.
- GARCIA, A.; LOPEZ, J. L. ; GONZALEZ, I. ; COLOMO, R.; RUIZ, M.B.
SINVLIO: Using semantics and fuzzy logic to provide individual investment portfolio recommendations , *Knowledge-Based Systems*, Vol. 27, 2012, pp. 103-118, HOLANDA.
- GARCIA, A.; PANIAGUA, F.; COLOMO, R.; GOMEZ, J.M.
E-Inclusion for People with Disabilities in E-Government Services through Accessible Multimedia , *International Journal of Information Systems and Social Change*, Vol. 3, Núm. 3, 2012, pp. 37-51, ESTADOS UNIDOS DE AMERICA.
- GARCIA, A.; PY, F.; DAS, J.; RAJAN, K.
An Online Utility-Based Approach for Sampling Dynamic Ocean Fields, *IEEE journal of oceanic engineering*, Vol. 37, Núm. 2, 2012, pp. 185-203, ESTADOS UNIDOS DE AMERICA.
- GARCIA, E.; IGLESIAS, J.A.
User modeling: Through statistical analysis and subspace learning, *Expert systems with applications*, Vol. 39, Núm. 5, 2012, pp. 5243-5250, REINO UNIDO.
- GARCIA, F.J.; COLOMO, R.; LYTRAS, M.D.
Outcomes of International Research Projects on Technology Applied to Education, *Journal of universal computer science*, Vol. 18, Núm. 1, 2012, pp. 1-4, AUSTRIA.
- GARCÍA, F.J.; COLOMO, R.; LYTRAS, M.D.
Informal learning in work environments: training with the Social Web in the workplace, *Behaviour and information technology*, Vol. 31, Núm. 8, 2012, pp. 753-755, REINO UNIDO.
- GARCIA, F.J.; FERNANDEZ, F. ; BORRAJO, F.
Reinforcement learning for decision-making in a business simulator, *International journal of information technology & decision making*, Vol. 11, 2012, pp. 935-960.

- GARCÍA, H.; MORATO, J. L. ; GENOVA, G.
TRAMA: A Reference Model and Architecture for Traceability Management = TRAMA: Un modelo de Referencia y Arquitectura para la Gestión de la Trazabilidad , *Técnica administrativa*, Vol. 11, Núm. 3, 2012, pp. 1-12, ARGENTINA.
- GARCIA, J. ; FERNANDEZ, F.
Safe Exploration of State and Action Spaces in Reinforcement Learning. *Journal of Artificial Intelligence Research*, Vol. 45, 2012, pp. 515-564, ESTADOS UNIDOS DE AMERICA.
- GARCIA, S.; QUINTANA, D.; GALVAN, I. M. ; ISASI, P.
Time-stamped resampling for robust evolutionary portfolio optimization, *Expert systems with applications*, Vol. 39, Núm. 12, 2012, pp. 10722-10730, REINO UNIDO.
- GARCÍA-DURÁN, R.; FERNANDEZ, F. ; BORRAJO, D.
A Prototype-Based Method for Classification with Time Constraints: A Case Study on Automated Planning, *Pattern Analysis and Applications*, Vol. 15, Núm. 3, 2012, pp. 261-277, REINO UNIDO.
- GOMEZ, J.L.; MOCHON, A.; SAEZ, Y. ; FEIJOO, C.
Simulating digital dividend auctions: Service neutrality versus dedicated licences, *Telematics and Informatics*, Vol. 29, 2012, pp. 11-25, ESTADOS UNIDOS DE AMERICA.
- GONZALEZ, I. ; COLOMO, R.; LOPEZ, J. L. ; GARCIA, A.; RUIZ, M.B.
PB-ADVISOR: A private banking multi-investment portfolio advisor , *Information sciences*, Vol. 206, 2012, pp. 63-82, HOLANDA.
- GONZALEZ, I. ; COLOMO, R.; LOPEZ, J. L. ; GARCIA, F.J.
SEffEst: Effort estimation in software projects using fuzzy logic and neural networks , *International journal of computational intelligence systems* , Vol. 5, 2012, pp. 679-699, HOLANDA.
- GONZALEZ, I. ; GARCIA, A.; RUIZ, M.B.; LOPEZ, J. L.
A neural network-based methodology for the recreation of high-speed impacts on metal armours, *Neural Computing and Applications*, Vol. 21, Núm. 1, 2012, pp. 91-107, REINO UNIDO.
- GONZALEZ, I. ; GARCIA, A.; RUIZ, M.B.; LOPEZ, J. L.
An optimization methodology for machine learning strategies and regression problems in ballistic impact scenarios, *Applied intelligence*, Vol. 36, Núm. 2, 2012, pp. 424-441, ESTADOS UNIDOS DE AMERICA.
- GRIOL, D.; CARBO, Javier; MOLINA, J. M.
A Statistical User Simulation Technique to Develop Interactive and User-Centered Conversational Agents, *International Journal of Artificial Intelligence*, Vol. 8, Núm. S12, 2012, pp. 202-222, INDIA.
- GRIOL, D.; MOLINA, J. M. ; CALLEJAS, Z.
Bringing together commercial and academic perspectives for the development of intelligent AmI interfaces, *Journal of ambient intelligence and smart environments*, Vol. 4, Núm. 3, 2012, pp. 183-207, HOLANDA.
- GRIOL, D.; MOLINA, J. M. ; SANCHIS, M. A. ; CALLEJAS, Z.
A Proposal to Create Learning Environments in Virtual Worlds Integrating Advanced Educative Resources, *Journal of universal computer science*, Vol. 18, 2012, pp. 2516-2541, AUSTRIA.
- GRIOL, D.; MOLINA, J. M. ; SANCHIS, M. A. ; CALLEJAS, Z.
A Proposal to Create Learning Environments in Virtual Worlds Integrating Advanced Educative Resources , *Journal of universal computer science*, Vol. 18, Núm. 18, 2012, pp. 2516-2541, AUSTRIA.
- GUERRERO, J.L.; BERLANGA, A. ; MOLINA, J. M.
A multi-objective approach for the segmentation issue, *Engineering optimization*, Vol. 44, Núm. 3, 2012, pp. 267-287, HOLANDA.

- HERNANDEZ, G.; RODRIGUEZ, A.; ALOR, G.; GOMEZ, J.M.; MAYER, M.A.; POSADA, R.
Knowledge Acquisition for Medical Diagnosis Using Collective Intelligence, *Journal of medical systems*, Vol. 36, Núm. 1 supplement, 2012, pp. 5-9, ESTADOS UNIDOS DE AMERICA.
- HERNANDEZ, J. C. ; ESTEVEZ, J.M.; PERIS, P.; CLARK, J.A.; ELGHAZALI, T.
Metaheuristic traceability attack against SLMAP, an RFID lightweight authentication protocol, *International journal of foundations of computer science*, Vol. 23, Núm. 2, 2012, pp. 543-553, SINGAPUR.
- IGLESIAS, J.A.; ANGELOV, P.; LEDEZMA, A. I. ; SANCHIS, M. A.
Creating Evolving User Behavior Profiles Automatically, *IEEE transactions on knowledge and data engineering*, Vol. 24, Núm. 5, 2012, pp. 854-867, ESTADOS UNIDOS DE AMERICA.
- JIMENEZ, S. ; ROSA, T.E.; FERNANDEZ, S. ; FERNANDEZ, F. ; BORRAJO, D.
A review of machine learning for automated planning, *Knowledge Engineering Review*, Vol. 27, Núm. 4, 2012, pp. 433-467, REINO UNIDO.
- Juan Gómez-Romero; BOBILLO, F.; DELGADO, M.
DELOREAN: A reasoner for fuzzy OWL 2, *Expert systems with applications*, Vol. 39, 2012, pp. 258-272, REINO UNIDO.
- Juan Gómez-Romero; SERRANO, M.A.; PATRICIO, M. A. ; GARCIA, J. ; MOLINA, J. M.
Context-based scene recognition from visual data in smart homes: an Information Fusion approach, *Personal and ubiquitous computing*, Vol. 16, 2012, pp. 835-857, REINO UNIDO.
- KALABOKIDIS, K.; XANTHOPOULOS, G.; MOORE, P.; CABALLERO, D.; KALLOS, G.; JUAN LLORENS; ROUSSOU, O.; VASILAKOS, C.
Decision support system for forest fire protection in the Euro-Mediterranean region, *European journal of forest research*, Vol. 131, Núm. 3, 2012, pp. 597-608, ALEMANIA.
- LE FESSANT, F.; PAPADIMITRIOU, A.; CARNEIRO VIANA, A.; SENGUL, C.; PALOMAR, E.
A sinkhole resilient protocol for wireless sensor networks: Performance and security analysis, *Computer communications*, Vol. 35, Núm. 2, 2012, pp. 234-248, HOLANDA.
- LEENEY, M.; VARAJAO, J.; TRIGO, A.; COLOMO, R.
Information Systems Outsourcing in Large Companies: Evidences from 20 Ireland Companies, *International Journal of Information Technology Project Management*, Vol. 2, Núm. 4, 2012, pp. 44-58, ESTADOS UNIDOS DE AMERICA.
- LOPEZ, J.; GONZALEZ-TABLAS, A. I. ; DE FUENTES, J.M.; RAMOS, B.
A taxonomy and survey of attacks on digital signatures, *Computers and security*, Vol. 34, 2012, pp. 67-112, HOLANDA.
- LOPEZ, J. L. ; COLOMO, R.; GONZALEZ, I. ; GARCIA, A.; RUIZ, M.B.
SABUMO: Towards a collaborative and semantic framework for knowledge sharing, *Expert systems with applications*, Vol. 39, Núm. 10, 2012, pp. 8671-8680, REINO UNIDO.
- LUCIO, T.; COLOMO, R.; SOTO, P.; POPA, S.; AMESCUA, A. D.
Implementing an IT service information management framework: The case of COTEMAR, *International journal of information management*, Vol. 32, Núm. 6, 2012, pp. 589-594, REINO UNIDO.
- LUNA, F.; ISASI, P.
Multi-objective metaheuristics for multi-disciplinary engineering applications, *Engineering optimization*, Vol. 44, Núm. 3, 2012, pp. 241-242, HOLANDA.

- MALIZIA, A.; BELLUCCI, A.
The Artificiality of Natural User Interfaces, *Communications of the ACM* , Vol. 55, Núm. 3, 2012, pp. 36-38, ESTADOS UNIDOS DE AMERICA.
- MALIZIA, A.; OLSEN, K.A.
Toward a New Search Paradigm-Can We Learn from Ants?, *Computer*, Vol. 45, Núm. 5, 2012, pp. 89-91, ESTADOS UNIDOS DE AMERICA.
- MARRERO, M.; SANCHEZ-CUADRADO, S. ; URBANO, J.; MORATO, J. L. ; MOREIRO, J. A.
Information Retrieval Systems Adapted to the Biomedical Domain , *Computing Research Repository*, 2012.
- MARRERO, M.; URBANO, J.; SANCHEZ-CUADRADO, S. ; MORATO, J. L. ; GOMEZ, J.M.
Named entity recognition: fallacies, challenges and opportunities , *Computer standards and interfaces*, 2012, HOLANDA.
- MARTI, E.D.; MARTIN, D.; GARCIA, J. ; ESCALERA, A.; MOLINA, J. M. ; ARMINGOL, J. M.
Context-aided Sensor Fusion for Enhanced Urban Navigation , *Sensors*, Vol. 12, Núm. 12, 2012, pp. 16802-16837, SUIZA.
- MARTIN, D. ; GARCIA, J. ; URBANO, J.; JUAN LLORENS
Patterns as objects to manage knowledge in software development organizations, *Knowledge Management Research and Practice*, Vol. 10, Núm. 3, 2012, pp. 252-274, REINO UNIDO.
- MISRA, S.; AKMAN, I.; COLOMO, R.
Framework for evaluation and validation of software complexity measures, *IET software*, Vol. 6, Núm. 4, 2012, pp. 323-334, REINO UNIDO.
- MONCHON, A.; SAEZ, Y. ; GOMEZ, J.L.; ISASI, P.
Exploring pricing rules in combinatorial sealed-bid auctions, *Journal of economic behavior and organization*, Vol. 82, Núm. 02-MAR, 2012, pp. 462-478, HOLANDA.
- MOREIRO, J. A. ; CASTRO SANTOS, W.; SANCHEZ-CUADRADO, S.
Análise do contexto de emprego dos profissionais brasileiros da Informação-Documentação a partir de ofertas de trabalho na Web feitas por empresas e instituições = Analysis of the employment context of brazilian professional information/documentation from working on the web offers made by companies and institution , *Informação e sociedade*, Vol. 22, Núm. 1, 2012, pp. 67-78, BRASIL.
- MOREIRO, J. A. ; SANCHEZ-CUADRADO, S. ; MORATO, J. L.
Mejora de la interoperabilidad semántica para la reutilización de contenidos mediante sistemas de organización del conocimiento , *Encontros Bibli. Revista Eletrônica de Biblioteconomia e Ciencia da Informação*, Vol. 17, Núm. 33, 2012, pp. 46-58, BRASIL.
- OLSEN, K.A.; MALIZIA, A.
Interfaces for the Ordinary User: Can We Hide Too Much?, *Communications of the ACM* , 2012, pp. 38-40, ESTADOS UNIDOS DE AMERICA.
- PALOMAR, E.; ALCAIDE, A. ; RIBAGORDA, A. ; ZHANG, Y.
The Peer's Dilemma: A general framework to examine cooperation in pure peer-to-peer systems, *Computer networks*, Vol. 56, Núm. 17, 2012, pp. 3756-3766, HOLANDA.
- PALOMAR, E.; DE FUENTES, J.M.; GONZALEZ-TABLAS, A. I. ; ALCAIDE, A.
Hindering false event dissemination in VANETs with proof-of-work mechanisms , *Transportation research. Part C, Emerging technologies*, Vol. 23, 2012, pp. 85-97, REINO UNIDO.

- PASCUAL, J.; PELAYO, C.; CUEVA, J.M.; ORDONEZ, P.; SANJUÁN, O.
A Simple Model Based on Web Services to Exchange Context Information between Web Browsers and Web Applications, *Journal of universal computer science*, Vol. 18, 2012, pp. 1410-1431, AUSTRIA.
- PASTRANA, S.; MITROKOTSA, A.; ORFILA, A. ; PERIS, P.
Evaluation of classification algorithms for intrusion detection in MANETs, *Knowledge-Based Systems*, Vol. 36, 2012, pp. 217-225, HOLANDA.
- PERALTA, J.; GUTIERREZ, G. ; SANCHIS, M. A.
Time Series Forecasting. A Comparative Study Between an Evolving Artificial Neural Networks System and Statistical Methods , *International journal on artificial intelligence tools*, Vol. 21, 2012, SINGAPUR.
- PERIS, P.; ORFILA, A. ; PALOMAR, E.; HERNANDEZ, J.
A secure distance-based RFID identification protocol with an off-line back-end database , *Personal and ubiquitous computing*, Vol. 16, Núm. 3, 2012, pp. 351-365, REINO UNIDO.
- RECIO, G.; ESTEBANEZ, C.
Micromagnetic Modeling on Magnetisation Dynamics with Lossy Magnetic Material in Thin Film Heads by FDTD Calculations, *Applied Computational Electromagnetics Society Journal*, Vol. 27, 2012, pp. 717-725, ESTADOS UNIDOS DE AMERICA.
- RECIO, G.; MARTIN, E.; ESTEBANEZ, C.; SAEZ, Y.
AntBot: Ant Colonies for Video Games, *IEEE Transactions on Computational Intelligence and AI in Games*, Vol. 4, 2012, pp. 295-308, ESTADOS UNIDOS DE AMERICA.
- RIVERO, J.; CUADRA, M. D. ; CALLE, F. J. ; ISASI, P.
Using the ACO algorithm for path searches in social networks, *Applied intelligence*, Vol. 36, Núm. 4, 2012, pp. 899-917, ESTADOS UNIDOS DE AMERICA.
- RIVERS, M.L.; PATRICIO, M. A.
EPICS based low-level radio frequency control system in LIPAc, *Fusion engineering and design*, Vol. 87, 2012, pp. 1872-1879, HOLANDA.
- ROBLES, K.T.; FRAGA, A.; MORATO, J. L. ; JUAN LLORENS
Towards an ontology-based retrieval of UML Class Diagrams , *Information and software technology*, Vol. 54, Núm. 1, 2012, pp. 72-86, REINO UNIDO.
- RODRIGUEZ, A.; ALVAREZ, J.M.; CASADO, C.; COLOMO, R.
Towards an ontology for psychological disorders , *International Journal of Metadata, Semantics and Ontologies*, Vol. 7, Núm. 4, 2012, pp. 260-268, REINO UNIDO.
- RODRIGUEZ, A.; COLOMO, R.; GULDRIS, F.; GOMEZ, J.M.; GARCIA, A.
FAST: Fundamental Analysis Support for Financial Statements. Using semantics for trading recommendations, *Information systems frontiers*, Vol. 14, Núm. 5, 2012, pp. 999-1017, HOLANDA.
- RODRIGUEZ, A.; HERNÁNDEZ, G.; COLOMO, R.; GOMEZ, J.M.; GARCIA, A.; ALOR, G.; VALENCIA, R.
Towards an Ontology to Support Semantics Enabled Diagnostic Decision Support Systems , *Current Bioinformatics*, Vol. 7, Núm. 3, 2012, pp. 234-245, HOLANDA.
- RODRIGUEZ, A.; LABRA, J.E.; COLOMO, R.; MAYER, M.A.; GOMEZ, J.M.; GARCIA, A.
SeDeLo: Using Semantics and Description Logics to Support Aided Clinical Diagnosis , *Journal of medical systems*, Vol. 36, Núm. 4, 2012, pp. 2471-2481, ESTADOS UNIDOS DE AMERICA.

- RODRIGUEZ, A.; TORRES, J.; JIMENEZ, E.; GOMEZ, J.M.; ALOR, G.
AKNOBAS: A Knowledge-based Segmentation Recommender System based on Intelligent Data Mining Techniques , *Computer Science and Information Systems*, Vol. 9, Núm. 2, 2012, pp. 713-740, SERBIA.
- RODRIGUEZ, A.; VALENCIA, R.; COLOMO, R.
Consuming and producing linked data on real world applications , *International journal of software engineering and knowledge engineering*, Vol. 22, Núm. 3, 2012, pp. 323-324, SINGAPUR.
- SALDAÑA, J.; SANZ, A.; GARCIA, J. ; AMESCUA, A. D.
Design of a competence model for testing teams , *IET software*, Vol. 6, Núm. 5, 2012, pp. 405-415, REINO UNIDO.
- SAMPSON, D.G.; SPECTOR, J.M.; AEDO, I. ; CHEN, N.S.
Advanced Learning Technologies, *Educational Technology & Society*, Vol. 15, Núm. 4, 2012, pp. 1-2, ALEMANIA.
- SANCHEZ, N.; CARBO, Javier; MOLINA, J. M.
A knowledge-based system approach for a context-aware system, *Knowledge-Based Systems*, Vol. 27, 2012, pp. 1-17, HOLANDA.
- SERRANO, M.A.; Juan Gómez-Romero; PATRICIO, M. A. ; GARCIA, J. ; MOLINA, J. M.
Ontological Representation of Light Wave Camera Data to Support Vision-Based AmI, *Sensors*, Vol. 12, 2012, pp. 12126-12152, SUIZA.
- SUAREZ, D.; SIERRA, J. M. ; IZQUIERDO, A.; SCHULZRINNE, H.
Survey of Attacks and Defenses on P2PSIP Communications, *IEEE Communications Surveys and Tutorials*, Vol. 14, 2012, pp. 750-783.
- SUAREZ, D.; SIERRA, J. M. ; SORIANO, M.
Decentralized certification scheme for secure admission in on-the-fly peer-to-peer systems , *Peer-to-peer networking and applications*, Vol. 5, Núm. 2, 2012, pp. 105-124, ESTADOS UNIDOS DE AMERICA.
- TELLEZ, J.; ZEDADALLY, S.; SIERRA, J. M.
A lightweight secure mobile Payment protocol for vehicular ad-hoc networks (VANETs), *Electronic commerce research*, Vol. 12, Núm. 1, 2012, pp. 97-123, ESTADOS UNIDOS DE AMERICA.
- UTRAY, F.; CASTRO, M.D.; MORENO, L. ; RUIZ, M.B.
Monitoring Accessibility Services in Digital Television, *International Journal of Digital Multimedia Broadcasting*, Núm. 2012, 2012, EGIPTO.
- VALLE, D.D.; CALLE, F. J. ; CUADRA, M. D. ; RIVERO, J.
Interpretation and generation incremental management in natural interaction systems., *Interacting with Computers*, Vol. 24, Núm. 2, 2012, pp. 78-90, HOLANDA.
- VARAJAO, J.; PINTO, J.; COLOMO, R.
Scoring model for the evaluation of the potential performance of chief information officers, *Interciencia*, Vol. 37, 2012, pp. 724-728, VENEZUELA.
- VASQUEZ, D.M.; SANCHEZ, M. I. ; MEDINA, F.; AMESCUA, A. D.
Combining Software Engineering Elicitation Technique with the Knowledge Management Lifecycle , *International Journal of Knowledge Society Research*, Vol. 3, Núm. 1, 2012, pp. 1-13, ESTADOS UNIDOS DE AMERICA.
- VENTURINI, V.M.; CARBO, Javier; MOLINA, J. M.
Methodological design and comparative evaluation of a MAS providing AmI, *Expert systems with applications*, Vol. 39, Núm. 12, 2012, pp. 10656-10673, REINO UNIDO.

- YADAV, D.; SHARMA, A.; SANCHEZ-CUADRADO, S. ; MORATO, J. L.
An approach to design incremental parallel Webcrawler , *Journal of Theoretical and Applied Information Technology*, Vol. 43, Núm. 1, 2012, pp. 8-29, PAKISTAN.

Monografías Científicas

- BORRAJO, D. ; FELNER, A.; KORF, R.; LIKHACHEV, M.; LINARES, C.; RUMML, W.; STURTEVANT, N.
Proceedings of the Fifth International Symposium on Combinatorial Search (SOCS 2012), *AAAI Press. Association for the Advancement of Artificial Intelligence* , ESTADOS UNIDOS DE AMERICA, 2012.
- COLOMO, R.
Professional Advancements and Management Trends in the IT Sector, *IGI GLOBAL*, ESTADOS UNIDOS DE AMERICA, 2012.
- COLOMO, R.; VARAJÃO, J.; SOTO-ACOSTA, P.
Customer Relationship Management and the Social and Semantic Web: Enabling Cliens Conexus, *IGI GLOBAL*, ESTADOS UNIDOS DE AMERICA, 2012.
- DE PABLO, I.; BORRAJO, F.; FERNANDEZ, F. ; GARCIA, F.J.; BUENO, Y.; SAGREDO, I.; SANTOS, B.
SIMBA: Simulador de Gestión Empresarial [software], *Simuladores Empresariales S.L.*, ESPAÑA, 2012.

Colaboraciones en obras colectivas

- ARRABALES, R.; LEDEZMA, A. I. ; SANCHIS, M. A.
ConsScale FPS: Cognitive Integration for Improved Believability in Computer Game Bots, en: Believable Bots: Can Computers Play Like People?, SPRINGER , pp. 193-214, 2012.
- ARRABALES, R.; MUÑOZ, J.; LEDEZMA, A. I. ; GUTIERREZ, G. ; SANCHIS, M. A.
A Machine Consciousness Approach to the Design of Human-Like Bots, en: Believable Bots: Can Computers Play Like People?, SPRINGER , pp. 171-191, 2012.
- CANINO, J.M.; BESADA PORTAS, J.; MOLINA, J. M. ; GARCIA, J.
A Multi-Agent Approach for Designing Next Generation of Air Traffic Systems, en: Advances in Air Navigation Services, INTECH, pp. 147-174, 2012.
- CASTANEDO, F.; Juan Gómez-Romero; PATRICIO, M. A. ; GARCIA, J. ; MOLINA, J. M.
Distributed Data and Information Fusion in Visual Sensor Networks, en: Distributed Data Fusion for Network-Centric Operations, CRC Press & IEEE, pp. 435-466, 2012.
- COLOMO, R.; JIMENEZ, D.; RUANO, M.; FERNÁNDEZ, J.; MAYORGA, D.; LÓPEZ, A.; VEGA, R.
Sem-IDI: Research and Development Management Enabled by Semantics, en: Advancing Information Management through Semantic Web Concepts and Ontologies, IGI GLOBAL, ESTADOS UNIDOS DE AMERICA, pp. 121-132, 2012.
- COLOMO, R.; MISHRA, A.; CASADO, C.; SOTO, P.
E-Mentoring in Global Software Development Teams: Success Factors to Develop a Common Culture, en: Multiculturalism in Technology-Based Education: Case Studies on ICT-Supported Approaches, IGI GLOBAL, ESTADOS UNIDOS DE AMERICA, pp. 160-175, 2012.

- GARCIA, A.; GONZALEZ, I. ; QUINTANA, I.; LOPEZ, J. L.
"Dibus para todos": experiencia de sensibilización sobre la accesibilidad en videojuegos, en: Buenas prácticas de accesibilidad en videojuegos, (1ª ed.), IMSERSO, ESPAÑA, pp. 215-218, 2012.
- GENOVA, G. ; JUAN LLORENS; MORATO, J. L.
Software Engineering Research: The Need to Strengthen and Broaden the Classical Scientific Method, en: Research Methodologies, Innovations and Philosophies in Software Systems Engineering and Information Systems, IGI GLOBAL, pp. 106-125, 2012.
- GONZALEZ, I. ; LOPEZ, J. L. ; GARCIA, A.; COLOMO, R.; RUIZ, M.B.
Towards an Improved Hotel Reservation System: A Fuzzy Approach to Improve Service Industries, en: Knowledge Management and Drivers of Innovation in Services Industries, IGI GLOBAL, ESTADOS UNIDOS DE AMERICA, pp. 120-148, 2012.
- GRIOL, D.; CALLEJAS, Z.; LÓPEZ, R.; ESPEJO, G.; ÁBALOS, N.
On the Development of Adaptive and User-Centred Interactive Multimodal Interfaces, en: Speech, Image, and Language Processing for Human Computer Interaction: Multi-Modal Advancements, IGI GLOBAL, pp. 262-291, 2012.
- GRIOL, D.; CALLEJAS, Z.; MOLINA, J. M. ; SANCHIS, M. A.
Towards the Use of Dialog Systems to Facilitate Inclusive Education, en: Technologies for Inclusive Education: Beyond Traditional Integration Approaches, IGI GLOBAL, pp. 1-21, 2012.
- IGLESIAS, A. M. ; RUIZ, M.B.; LÓPEZ, J.F.; CARRERO, D.
New Communication Technologies for Inclusive Education in and outside the Classroom, en: Technologies for Inclusive Education: Beyond Traditional Integration Approaches, IGI GLOBAL, pp. 271-284, 2012.
- LOPEZ, J. L. ; GONZALEZ, I. ; GARCIA, A.; RUIZ, M.B.
Exploding Web 3.0 and Web 2.0 for Sales Processes Definition, en: Customer Relationship Management and the Social and Semantic Web: Enabling Cliens Conexus, IGI GLOBAL, pp. 212-230, 2012.
- MUÑOZ, J.; GUTIERREZ, G. ; SANCHIS, M. A.
Towards Imitation of Human Driving Style in Car Racing Games, en: Believable Bots: Can Computers Play Like People?, SPRINGER , pp. 298-313, 2012.
- SANCHEZ-PENA, J. M. ; RUIZ, M.B.; REVUELTA, P.
Depth Estimation. An Introduction, en: Current Advancements in Stereo Vision, INTECH, CROACIA, 2012.

Ponencias y Comunicaciones a congresos

- ARRABALES, R.; LEDEZMA, A. I. ; SANCHIS, M. A.
CC-Bot: A Believable Video Game Bot based on Machine Consciousness, 5th International Conference on Cognitive Systems (CogSys 2012), VIENA, AUSTRIA, 2012.
- ARREGUI, J.P.; TEJO, J.A.; LINARES, C.; BORRAJO, D.
Steps Towards an Operational Sensors Network Planning for Space Surveillance, 12th International Conference on Space Operations (SpaceOps'12), ESTOCOLMO, SUECIA, 2012.
- BLAZQUEZ, G.; BERLANGA, A. ; MOLINA, J. M.
Comparing Features Extraction Techniques Using J48 for Activity Recognition on Mobile Phones; en: Distributed Computing and Artificial Intelligence: 9th International Conference, SPRINGER , , 2012.

- BLAZQUEZ, G.; LUIS, A.; BERLANGA, A. ; MOLINA, J. M.
ContextCare: Autonomous Video Surveillance System Using Multi-camera and Smartphones; en: Management Intelligent Systems: First International Symposium, SPRINGER , , 2012.
- BORRAJO, D. ; VELOSO, M.
Probabilistically Reusing Plans in Deterministic Planning; en: ICAPS 2012 Proceedings of the 3rd Workshop on Heuristics and Search for Domain-Independent Planning, 2012.
- CALLE, F. J. ; ALBACETE, E.; SANCHEZ, E.; CUADRA, M. D.
Interacting with Navigation Devices: A Case Study, The Fifth International Conference on Advances in Computer-Human Interactions (ACHI 2012), VALENCIA, ESPAÑA, 2012.
- CALLEJAS, Z.; GRIOL, D.; LOPEZ-COZAR, R.
Merging Intention and Emotion to Develop Adaptive Dialogue Systems; en: Advances in Speech and Language Technologies for Iberian Languages: IberSPEECH 2012 Conference, Madrid, Spain, November 21-23, 2012, Proceedings, SPRINGER , , 2012.
- CALVO, M.D.R.; MORENO, L. ; IGLESIAS, A. M.
Requirements Elicitation to Design an Accessible Chat as a Synchronous Tool in m-Learning Environments; en: Calidad y Accesibilidad de la Formación Virtual: Actas del III Congreso Iberoamericano sobre Calidad y Accesibilidad de la Formación Virtual (CAFVIR 2012) Escuela Técnica Superior de Ingeniería Informática, UNIVERSIDAD DE ALCALA DE HENARES, , 2012.
- CAMARA, C.; PERIS, P.; RAMOS, B.
La seguridad de mañana: seguridad en IMDs, XII Reunión Española sobre Criptología y Seguridad de la Información (RECSI 2012), DONOSTIA-SAN SEBASTIAN, ESPAÑA, 2012.
- CENAMOR, I.R.; DE LA ROSA, T.; FERNANDEZ, F.
Mining IPC-2011 Results; en: WS-IPC 2012. Proceedings of the 3rd Workshop on the International Planning Competition, AAAI Press. Association for the Advancement of Artificial Intelligence , 2012.
- COLOMO, R.; RODRIGUEZ, A.; CABANAS, A.; FERNANDEZ, J.
Post-via: After Visit Tourist Services Enabled by Semantics ; en: On the Move to Meaningful Internet Systems: OTM 2012 Workshops: Confederated International Workshops: OTM Academy, Industry Case Studies Program, EI2N, INBAST, META4eS, OnToContent, ORM, SeDeS, SINCOM, and SOMOCO 2012, Rome, Italy, September 10-14, 2012. Proceedings, SPRINGER , 2012.
- DE FUENTES, J.M.; GONZALEZ-TABLAS, A. I. ; GONZALEZ, L.; RIBAGORDA, A.
Diseño de un protocolo para el envío de notificaciones de tráficoal vehículo a través de tecnologías ITS , XII Congreso Español sobre Sistemas Inteligentes de Transporte, MADRID, ESPAÑA, 2012.
- DIAZ, M. P.
Social Games to Support Non Formal Learning, III Jornadas eMadrid sobre e-Learning, MADRID, ESPAÑA, 2012.
- DIAZ, M. P.
Information Systems for the Collaboration Among Agencies, 2nd Mid-Year Implementation and Assessment Group (IAG) Meeting. Global Initiative to Combat Nuclear Terrorism (GICNT), MARRAKECH, MARRUECOS, 2012.
- DUQUE, A.; ORDOÑEZ, F.J.; TOLEDO, M.P.D.; SANCHIS, M. A.
Offline and Online Activity Recognition on Mobile Devices using Accelerometer Data; en: Ambient Assisted Living and Home Care: 4th International Workshop, IWAAL 2012, Vitoria-Gasteiz, Spain, December 3-5, 2012, Proceedings, SPRINGER , , 2012.

- EDELKAMP, S.; KISSMANN, P.; TORRALBA, A.
Lex-Partitioning: A New Option for BDD Search, First Workshop on Graph Inspection and Transversal Engineering (GRAPHITE 2012), Tallin, ESTONIA, 2012.
- ESTEVEZ, J.M.; LOPEZ, J.
Simulador Avanzado para la Ciberdefensa, XXIII Congreso Español de Seguridad de la Informática (SECURMATICA 2012), MADRID, ESPAÑA, 2012.
- GARCIA, A.; GONZALEZ, I. ; LOPEZ, J. L. ; CELORRIO, C.; GONZALEZ, A.
Mobility Platform for Video Content with Augmented Reality, The Seventh International Multi-Conference on Computing in the Global Information Technology (ICCGI 2012), VENEZIA, ITALIA, 2012.
- GARCIA, B.; PONS, T.; SANCHIS, M. A. ; VALENCIA, A.
Relational Learning-based Extension for Reactome Pathways with Sequence Features and Interactions, XI Jornadas de Bioinformática (JBI 2012), BARCELONA, ESPAÑA, 2012.
- GARCIA, F.J.; TORRALBA, A.; GARCIA, A.; BORRAJO, D. ; FLOREZ, J.E.
Solving Multi-modal and Uni-modal Transportation Problems through TIMIPlan; en: 13th IFAC Symposium on Control in Transportation Systems: The International Federation of Automatic Control IFAC, Sofia, Bulgaria, 2012.
- GARCIA, J. ; FERNANDEZ, A.R.; AMESCUA, A. D. ; VELASCO, M.
A Process Reference Model for Managing Living Labs for ICT Innovation: A Proposal Based on ISO/IEC 15504, 19th European System, Software & Service Process Improvement & Innovation Conference (EuroSPI 2012), VIENA, AUSTRIA, 2012.
- GIACCARDI, E.; PAREDES, P.; DIAZ, M. P. ; ALVARADO, D.
Embodied Narratives: A Performative Co-Design Technique, ACM Conference on Designing Interactive Systems (DIS 2012), NEWCASTLE, REINO UNIDO, 2012.
- GONZALEZ, B.P.; PERALTA, J.; CORTEZ, P.; GUTIERREZ, G. ; SANCHIS, M. A.
Parallelization of an Evolving Artificial Neural Networks System to Forecast Time Series using OPENMP and MPI; en: Proceedings 2012 IEEE Conference on Evolving and Adaptive Intelligent Systems (EAIS 2012), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. , 2012.
- GONZÁLEZ, J.; MASMITJÀ, I.; GOMÁRIZ, S.; MOLINO, E.; RÍO, J.D.; MÀNUEL, A.; BUSQUETS, J.; GUERRERO, A.; LÓPEZ, F.; CARRERAS, M.; RIBAS, D.; CARRERA, A.; CANDELA, C.; RIDAO, P.; SOUSA, J.; CALADO, P.; PINTO, J.; SOUSA, A.; MARTINS, R.; BORRAJO, D. ; GARCIA, A.; GARAU, B.; GONZÁLEZ, I.; TORRES, S.; RAJAN, K.; MCCANN, M.; GILABERT, J.
AUV Based Multi-vehicle Collaboration: Salinity Studies in Mar Menor Coastal Lagoon, IFAC Workshop on Navigation, Guidance and Control of Underwater Vehicles (NGCUV'2012), OPORTO, PORTUGAL, 2012.
- GONZALEZ, L.; GONZALEZ-TABLAS, A. I. ; DE FUENTES, J.M.; RAMOS, B.
Control de acceso en redes sociales web, XII Reunión Española sobre Criptología y Seguridad de la Información (RECSI 2012), DONOSTIA-SAN SEBASTIAN, ESPAÑA, 2012.
- GONZALEZ, L.; GONZALEZ-TABLAS, A. I. ; DE FUENTES, J.M.; RIBAGORDA, A.
U+F Social Network Protocol: Achieving Interoperability and Reusability between Web based Social Networks; en: 2012 IEEE 11th International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.
- GONZALEZ, M.; MORENO, L. ; MARTINEZ, P.
An Approach to User Interface Design of an Accessible User Agent ; en: Proceedings of the 4th International Conference on Software Development for Enhancing Accessibility and Fighting Info-exclusion (DSAI 2012), ELSEVIER, 2012.

- GONZALEZ-TABLAS, A. I. ; DE FUENTES, J.M.; ALCAIDE, A. ; RIBAGORDA, A.
Proyecto e-SAVE y PRECIOUS sobre la aplicación de tecnologías ITS para la supervisión del cumplimiento de las normas, XII Congreso Español sobre Sistemas Inteligentes de Transporte, MADRID, ESPAÑA, 2012.
- GRIOL, D.; CARBO, Javier; MOLINA, J. M.
Optimizing Dialog Strategies for Conversational Agents Interacting in AmI Environments; en: Ambient Intelligence - Software and Applications: 3rd International Symposium on Ambient Intelligence (ISAmI 2012), SPRINGER , , 2012.
- GRIOL, D.; CARBO, Javier; MOLINA, J. M.
Modeling Internet as a User-Adapted Speech Service; en: Hybrid Artificial Intelligent Systems: 7th International Conference, HAIS 2012, Salamanca, Spain, March 28-30th, 2012. Proceedings, Part I, SPRINGER , , 2012.
- GRIOL, D.; FERNANDEZ, M.; MOLINA, J. M. ; SANCHIS, M. A.
The MovieScript System: Integration of Statistical Methodologies and the VoiceXML Standard to Develop Spoken Dialog Systems; en: Proceedings IberSPEECH 2012: VII Jornadas en Tecnología del Habla and III Iberian SLTech Workshop, , 2012.
- GRIOL, D.; GARCIA, M.; MOLINA, J. M. ; SANCHIS, M. A.
Interactive and User-Adapted Voice Portals for the City Council; en: Proceedings IberSPEECH 2012: VII Jornadas en Tecnología del Habla and III Iberian SLTech Workshop, , 2012.
- GRIOL, D.; MOLINA, J. M.
Using Virtual Worlds and Sloodle to Develop Educative Applications; en: International Workshop on Evidence-Based Technology Enhanced Learning, SPRINGER , , 2012.
- GRIOL, D.; MOLINA, J. M. ; SANCHIS, M. A. ; CALLEJAS, Z.
Modeling a Spoken Dialog System using POMDPs and Agenda-based User Simulation; en: Proceedings IberSPEECH 2012: VII Jornadas en Tecnología del Habla and III Iberian SLTech Workshop, , 2012.
- GUERRERO, J.L.; BERLANGA, A. ; MOLINA, J. M.
Initialization Procedures for Multiobjective Evolutionary Approaches to the Segmentation Issue; en: Hybrid Artificial Intelligent Systems: 7th International Conference, HAIS 2012, Salamanca, Spain, March 28-30th, 2012. Proceedings, Part I, SPRINGER , , 2012.
- GUERRERO, J.L.; GOMEZ, A.; BERLANGA, A. ; MOLINA, J. M.
Mutagenesis as a Diversity Enhancer and Preserver in Evolution Strategies; en: Distributed Computing and Artificial Intelligence: 9th International Conference, SPRINGER , , 2012.
- Guillermo Suarez-Tangil
Intrusion Alert Correlation for Collaborative Intelligent Intrusion Detection Systems, COLISEUM - COntributed Lectures on Information Security Using Maths, ESPAÑA, 2012.
- GUZMÁN, C.; ALCAZAR, V.; PRIOR, D.; ONAINDIA, E.; BORRAJO, D. ; FERNÁNDEZ, J.; QUINTERO, E.A.
PELEA: A Domain-Independent Architecture for Planning, Execution and Learning; en: Proceedings of the Scheduling and Planning Applications woRKshop, AAAI Press. Association for the Advancement of Artificial Intelligence , 2012.
- HERNANDEZ, A.; COLOMO, R.
Job Satisfaction and Motivation of Software Engineering Practitioners, 1st Workshop on Managing the Influence of People and Team Factors in Software Engineering (INTEAMSE 2012), 13th International Conference on Product-Focused Software Development and Process Improvement (PROFES 2012), MADRID, ESPAÑA, 2012.

- HERNANDEZ, A.; COLOMO, R.; GARCIA, A.
Productivity in Software Engineering: A Study of its Meanings for Practitioners: Understanding the Concept under their Standpoint; en: 2012 7th Iberian Conference on Information Systems and Technologies (CISTI), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, , 2012.
- HERNANDEZ, J. C. ; PERIS, P.; SAFKHANI, M.; BAGHERI, N.; NADERI, M.
Yet Another Fallen Hash-based RFID Authentication Protocol; en: Information Security Theory and Practice: Security, Privacy and Trust in Computing Systems and Ambient Intelligent Ecosystems: 6th IFIP WG 11.2 International Workshop, WISTP 2012, Egham, UK, June 20-22, 2012, Proceedings, SPRINGER , 2012.
- HERRANZ, S.; DIEZ, D. ; DIAZ, M. P.
Emergency Management as Community Work: A Design Framework for Virtual Communities of Practice (VCoPs), 9th International Conference on Information Systems for Crisis Response and Management (ISCRAM 2012): Integrative and Analytical Approaches to Crisis Response and Emergency Management Information Systems, VANCOUVER, CANADA, 2012.
- HERRANZ, S.; DIEZ, D. ; DIAZ, M. P. ; HILTZ, S.R.
Classifying Communities for Design: A Review of the Continuum from CoIs to CoPs; en: From Research to Practice in the Design of Cooperative Systems: Results and Open Challenges, SPRINGER , REINO UNIDO, 2012.
- HERRANZ, S.; DIEZ, D. ; DIAZ, M. P. ; HILTZ, S.R.
Exploring the Design of Technological Platforms for Virtual Communities of Practices; en: ISCRAM 2012 Conference Proceedings: Book of Papers, SIMON FRASER UNIVERSITY, 2012.
- HIGUERO, D.; TIRADO, J.M.; ISAILA, F.D.; CARRETERO, J.
Enhancing File Transfer Scheduling and Server Utilization in Data Distribution Infrastructures; en: 2012 IEEE 20th International Symposium on Modelling, Analysis & Simulation of Computer and Telecommunication Systems (MASCOTS), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.
- IGLESIAS, J.A.; ORDOÑEZ, F.J.; LEDEZMA, A. I. ; TOLEDO, M.P.D.; SANCHIS, M. A.
Evolving Activity Recognition from Sensor Streams; en: Proceedings 2012 IEEE Conference on Evolving and Adaptive Intelligent Systems (EAIS 2012), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, , 2012.
- LAGARES, M.; VILLANUEVA, D.; RADZIMSKI, M.K.; LAGARES, A.; GOMEZ, J.M.
RING: A Context Ontology for Communication Channel Rule-based Recommender System, International Workshop on Semantic Technologies meet Recommender Systems & Big Data (SeRSy 2012). 11th International Semantic Web Conference (ISWC 2012), BOSTON, ESTADOS UNIDOS DE AMERICA, 2012.
- LANA, S.; SANCHEZ, D.; MARTINEZ, P.; MORENO, A.; CAMPILLO, L.
An Approach for Detecting Modality and Negation in Texts by using Rule-based Techniques, Cross-Language Evaluation Forum (CLEF 2012), ROMA, ITALIA, 2012.
- LIRIA, E.; HIGUERO, D.; ABELLA, M.; DE MOLINA, C.; DESCO, M.
Exploiting parallelism in a X-ray tomography reconstruction algorithm on hybrid multi-GPU and multi-core platforms; en: Proceedings of the 2012 10th IEEE International Symposium on Parallel and Distributed Processing with Applications, IEEE COMPUTER SOCIETY, , 2012.
- LOHMANN, S.S.; DIAZ, M. P.
Representing and Visualizing Folksonomies as Graphs: A Reference Model; en: Proceedings of the International Working Conference on Advanced Visual Interfaces, ACM, 2012.

- LOPEZ, J. L. ; GONZALEZ, I. ; COLOMO, R.; GOMEZ, R.; GARCIA, A.
CoKIM: Collaborative and Social Knowledge-based Incident Manager; en: 2012 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2012). Proceedings, IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.
- LUCIO, T.; COLOMO, R.
ITIL and the Creation of a Service Management Office (SMO): A New Challenge for IT Professionals: An Exploratory Study of Latin American Companies; en: 2012 7th Iberian Conference on Information Systems and Technologies (CISTI), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, , 2012.
- LUIS, A.; MOLINA, J. M. ; PATRICIO, M. A.
Distributed Active-Camera Control Architecture Based on Multi-Agent Systems; en: Highlights on Practical Applications of Agents and Multi-Agent Systems: 10th International Conference on Practical Applications of Agents and Multi-Agent Systems, SPRINGER , , 2012.
- MARTI, E.D.; GARCIA, J. ; CRASSIDIS, J.L.
Improving Multiple-Model Context-Aided Tracking through an Autocorrelation Approach; en: 2012 15th International Conference on Information Fusion (FUSION 2012), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.
- MARTINEZ, F.; LOZANO, M.; FERNANDEZ, F.
Calibrating a Motion Model Based on Reinforcement Learning for Pedestrian Simulation; en: Motion in Games: 5th International Conference, MIG 2012, Rennes, France, November 15-17, 2012. Proceedings, SPRINGER , 2012.
- MARTINEZ, M.; FERNANDEZ, F. ; BORRAJO, D.
Variable resolution planning through predicate relaxation; en: PlanEx 2012: Proceedings of the Workshop on Planning and Plan Execution for Real-World Systems: Principles and Practices, ICAPS, 2012.
- MEDINA, F.; SANCHEZ, M. I. ; MORA, J.A.; AMESCUA, A. D.
Teaching Collaborative Web Tools at University: Does it Help Students to be Competitive in the Labor Market?; en: ICERI2012 Proceedings: 5th International Conference of Education, Research and Innovations Madrid, Spain. 19-21 November, 2012, IATED, , 2012.
- MORA, J.A.; SANCHEZ, M. I. ; RUIZ, R.A.; MEDINA, F.
Organizational Knowledge Management to Increase Productivity, 13th European Conference on Knowledge Management (ECKM 2012), CARTAGENA, ESPAÑA, 2012.
- MORENO, J.; MARTINEZ-FERNANDEZ, J. L. ; MARTINEZ, P.
A Proof-of-Concept for Orthographic Named Entity Correction in Spanish Voice Queries , 10th International Workshop on Adaptive Multimedia Retrieval (AMR 2012), COPENHAGEN, DINAMARCA, 2012.
- MORENO, L. ; MARTINEZ, P.
Revisión de los requisitos de accesibilidad en la interacción de los usuarios ancianos con las aplicaciones web = A Review of Accessibility Requirements in Elderly Users' Interactions with Web Applications ; en: Proceedings of the 13th International Conference on Interacción Persona-Ordenador, ACM, , 2012.
- MOYA, J.M.; CARBO, Javier
Applying Relational Dynamic Influence Diagram Language (RDDL) in ART Domain for Multi-Agent Systems, Workshop on Intelligent Systems for Context-based Information Fusion (ISCIF 2012) under the frame of 13th Ibero-American Conference on Artificial Intelligence (IBERAMIA 2012), CARTAGENA DE INDIAS, COLOMBIA, 2012.
- NÚÑEZ, S.; BORRAJO, D. ; LINARES, C.
Performance Analysis of Planning Portfolios; en: The Fifth International Symposium on Combinatorial Search (SOCS 2012): Proceedings, AAAI Press. Association for the Advancement of Artificial Intelligence , 2012.

- NÚÑEZ, S.; BORRAJO, D. ; LINARES, C.
How Good is the Performance of the Best Portfolio in IPC-2011?; en: ICAPS 2012 Proceedings of the 3rd Workshop on the International Planning Competition, AAAI Press. Association for the Advancement of Artificial Intelligence , 2012.
- ONORATI, T.; MALIZIA, A.; OLSEN, K.; DIAZ, M. P. ; AEDO, I.
I Feel Lucky: An Automated Personal Assistant for Smartphones; en: Proceedings of the International Working Conference on Advanced Visual Interfaces, ACM, 2012.
- ORDÓÑEZ, A.; ALCAZAR, V.; BORRAJO, D. ; FALCARIN, P.; CORRALES, J.C.
An Automated User-Centered Planning Framework for Decision Support in Environmental Early Warnings ; en: Advances in Artificial Intelligence - IBERAMIA 2012: 13th Ibero-American Conference on AI, Cartagena de Indias, Colombia, November 13-16, 2012. Proceedings , SPRINGER , 2012.
- ORDOÑEZ, F.J.; DUQUE, A.; TOLEDO, M.P.D.; SANCHIS, M. A.
A Hybrid HMM/ANN Model for Activity Recognition in the Home using Binary Sensors; en: Ambient Assisted Living and Home Care: 4th International Workshop, IWAAL 2012, Vitoria-Gateiz, Spain, December 3-5, 2012, Proceedings, SPRINGER , , 2012.
- PADILLA, M.; SANCHEZ, M. I. ; MORA, J.A.; MEDINA, F.
Los softskills de los nuevos profesionales de TI = Softskills of the New IT Professionals , 7th Academic Conference ITGSM12: Creating the New Generation of Professionals and Companies for the Digital Age, LEGANES, ESPAÑA, 2012.
- PALACIOS, V. ; MORATO, J. L. ; SANCHEZ-CUADRADO, S. ; DIMOU, C.
Querying Linked Data: Evaluation of Systems for Semantic Documents Retrieval, LOV Symposium: Linking and Opening Vocabularies, GETAFE, ESPAÑA, 2012.
- PARRA, A.; TORRALBA, A.; LINARES, C.
Precomputed-Direction Heuristics for Suboptimal Grid-Based Path-finding; en: Proceedings of the fifth international symposium on combinatorial search (SOCS 2012), AAAI Press. Association for the Advancement of Artificial Intelligence , 2012.
- PERIS, P.; SAFKHANI, M.; BAGHERI, N.; MITROKOTSA, A.; HERNANDEZ, J. C.
Weaknesses in Another Gen2-based RFID Authentication Protocol; en: 2012 IEEE International Conference on RFID-Technologies and Applications (RFID-TA), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.
- POZO, A.; PATRICIO, M. A. ; GARCIA, J. ; MOLINA, J. M. ; REFOYO, I.
Group Behavior Recognition Issue, Feature Analysis on Defending Pick and Roll Basketball Move; en: Advances in Knowledge-Based and Intelligent Information and Engineering Systems, IOS Press., , 2012.
- RADZIMSKI, M.K.; SANCHEZ, J.L.; RODRIGUEZ, A.; GOMEZ, J.M.; GARCIA, A.
FLORA - Publishing Unstructured Financial Information in the Linked Open Data Cloud, First International Workshop on Finance and Economics on the Semantic Web (FEOSW 2012) in conjunction with 9th Extended Semantic Web Conference (ESWC 2012), HERAKLION, GRECIA, 2012.
- RIBAGORDA, A.
Protección de datos personales. Lecciones aprendidas en el contexto español [Conferencia inaugural], XII Jornada Nacional de Seguridad Informática "Seguridad y Privacidad: una visión conjunta", COLOMBIA, 2012.
- RIBAGORDA, A.
La criptografía. De sus orígenes a la sociedad de la información, Nuevas tecnologías: las TIC's en la economía, ASTORGA, ESPAÑA, 2012.

- RIGHI, V.; ROSALES, A.; SAYAGO, S.; BLAT, J.A.
Older people's strategies for building trust in online communities through an ethnographical lens; en: NordiCHI'12 Workshop: User-Centered Trust in Interactive Systems, 2012.
- RIGHI, V.; SAYAGO, S.; BLAT, J.A.
Older people's use of Social Network Sites while participating in local online communities from an ethnographical perspective; en: Proceedings of CIRN 2012 Community Informatics Conference: 'Ideals meet Reality', 2012.
- ROBLES, K.T.; RUIZ, R.A.; FRAGA, A.; JUAN LLORENS
An Approach to Simplify Navigation within Ontologies, 3rd International Workshop on Software Knowledge (SKY 2012). 4th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management (IC3K 2012), *BARCELONA, ESPAÑA*, 2012.
- ROMERO, R.M.; WITTENBURG, K.; DIEZ, D. ; DIAZ, M. P.
Envisioning Grid Vulnerabilities: Multi-dimensional Visualization for Electrical Grid Planning; en: Proceedings of the International Working Conference on Advanced Visual Interfaces, ACM, 2012.
- ROSALES, A.; RIGHI, V.; SAYAGO, S.; BLAT, J.A.
Ethnographic techniques with older people at intermediate stages of product development; en: , 2012.
- RUANO, M.; COLOMO, R.; GARCIA, A.; MISRA, S.
Global Software Projects: Work Package Allocation Factors, 19th European System, Software & Service Process Improvement & Innovation Conference (EuroSPI 2012), *VIENA, AUSTRIA*, 2012.
- RUIZ, M.B.
La empresa accesible: entorno, productos y servicios para todos, 2º Jornada sobre Empleo y Discapacidad: propuestas desde la acción., *MADRID, ESPAÑA*, 2007.
- SAFKHANI, M.; BAGHERI, N.; PERIS, P.; MITROKOTSA, A.
On the Traceability of Tags in SUAP RFID Authentication Protocols; en: 2012 IEEE International Conference on RFID-Technologies and Applications (RFID-TA), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.
- SAFKHANI, M.; PERIS, P.; BAGHERI, N.; NADERI, M.; HERNANDEZ, J. C.
On the Security of Tan et al. Serverless RFID Authentication and Search Protocols, 8th Workshop on RFID Security and Privacy 2012, *NIJMEGEN, HOLANDA*, 2012.
- SAFKHANI, M.; PERIS, P.; HERNANDEZ, J. C. ; BAGHERI, N.; NADERI, M.
Cryptanalysis of Cho et al.'s Protocol: A Hash-Based RFID Tag Mutual Authentication Protocol, International Conference on Applied and Computational Mathematics (ICACM), *ANKARA, TURQUIA*, 2012.
- SANCHEZ, M. I. ; RUIZ, R.A.; MORA, J.A.
Enhancing Process Asset Assessment, SEPG Europe 2012 Conference, *MADRID, ESPAÑA*, 2012.
- SANCHEZ-PENA, J. M. ; REVUELTA, P.; RUIZ, M.B.
Sonification as a Social Right Implementation; en: Proceedings of the 18th International Conference on Auditory Display, GEORGIA INSTITUTE OF TECHNOLOGY, 2012.
- SANCHEZ-PENA, J. M. ; REVUELTA, P.; RUIZ, M.B.
Estimating Complexity of Algorithms as a Black-Box Problem: A Normalized Time Index, The 3rd International Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC 2012), *ORLANDO, FLORIDA, ESTADOS UNIDOS DE AMERICA*, 2012.

- SANCHEZ-PENA, J. M. ; RUIZ, M.B.; REVUELTA, P.
A Sonification Proposal for Safe Travels of Blind People; en: Proceedings of the 18th International Conference on Auditory Display, GEORGIA INSTITUTE OF TECHNOLOGY, ESTADOS UNIDOS DE AMERICA, 2012.
- SANTOS, I.J.; CASTRO, E.
Panel about World and Local experiences on Open Source enabling XBRL implementations, XBRL Week in Madrid. Technical and Training Track. 15th Eurofiling XBRL Workshop, MADRID, ESPAÑA, 2012.
- SERRANO, M.A.; Juan Gómez-Romero; PATRICIO, M. A. ; GARCIA, J. ; MOLINA, J. M.
Applying the Dynamic Region Connection Calculus to Exploit Geographic Knowledge in Maritime Surveillance; en: 2012 15th International Conference on Information Fusion (FUSION 2012), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.
- SHAFTI, L.S.; HAYA, P.A.; GARCÍA, M.; ALAMÁN, X.
Personal Ambient Intelligent Reminder for People with Cognitive Disabilities; en: Ambient Assisted Living and Home Care: 4th International Workshop, IWAAL 2012, Vitoria-Gasteiz, Spain, December 3-5, 2012. Proceedings, SPRINGER , 2012.
- SHAFTI, L.S.; HAYA, P.A.; GARCÍA, M.; PÉREZ, E.
Evolutionary Feature Extraction to Infer Behavioral Patterns in Ambient Intelligence; en: Ambient Intelligence: Third International Joint Conference, Aml 2012, Pisa, Italy, November 13-15, 2012. Proceedings, SPRINGER , 2012.
- TENA, S.; DIEZ, D. ; DIAZ, M. P. ; AEDO, I.
Bridging the Communication Gap: A User Task Vocabulary for Multidisciplinary Web Development Team, XIII Congreso Internacional de Interacción Persona-Ordenador (Interacción 2012), ELCHE, ESPAÑA, 2012.
- TIRADO, J.M.; HIGUERO, D.; ISAILA, F.D.; CARRETERO, J.
Reconciling Dynamic System Sizing and Content Locality through Hierarchical Workload Forecasting; en: 2012 IEEE 18th International Conference on Parallel and Distributed Systems (ICPADS), IEEE COMPUTER SOCIETY, 2012.
- URBANO, J.; JUAN LLORENS; MORATO, J. L. ; SANCHEZ-CUADRADO, S.
MIREX 2012 Symbolic Melodic Similarity: Hybrid Sequence Alignment with Geometric Representations, Music Information Retrieval Evaluation eXchange (MIREX 2012), OPORTO, PORTUGAL, 2012.
- VEGA, R.; ALCAIDE, A. ; Guillermo Suarez-Tangil; RIBAGORDA, A.
A Semantic Crawler: Olympic Women, 7ª Conferencia Ibérica de Sistemas y Tecnologías de Información (CISTI 2012), MADRID, ESPAÑA, 2012.
- VENTURINI, V.M.; CARBO, Javier; MOLINA, J. M.
Multiobjective Optimization Problem in Multi-Agent System for Aml scenarios, Workshop on Intelligent Systems for Context-based Information Fusion (ISCIF 2012) under the frame of 13th Ibero-American Conference on Artificial Intelligence (IBERAMIA 2012), CARTAGENA DE INDIAS, COLOMBIA, 2012.
- ZARRAONANDIA, T. A. ; DIAZ, M. P. ; AEDO, I.
A Modular Approach to Support the Multidisciplinary Design of Educational Game Experiences; en: Neural Information Processing: 19th International Conference, ICONIP 2012, Doha, Qatar, November 12-15, 2012. Proceedings, Part IV, SPRINGER , 2012.
- ZARRAONANDIA, T. A. ; DIAZ, M. P. ; RUIZ, M.R.; AEDO, I.
Designing Educational Games by Combining Other Game Designs; en: 2012 IEEE 12th International Conference on Advance Learning Technologies (ICALT), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.

- ZARRAONANDIA, T. A. ; RUIZ, M.R.; DIAZ, M. P. ; AEDO, I.
Combining Game Designs for Creating Adaptive and Personalized Educational Games; en: Proceedings of the 6th European Conference on Games Based Learning, ACADEMIC PUBLISHING INTERNATIONAL LIMITED READING, 2012.
- ZARRAONANDIA, T. A. ; RUIZ, M.R.; DIAZ, M. P. ; AEDO, I.
Safety Villages: An Educational Game for Raising Children's Awareness of Risks, 9th International Conference on Information Systems for Crisis Response and Management (ISCRAM 2012), VANCOUVER, CANADA, 2012.

Propiedad Industrial/intelectual

- *Inventores*: FRAGA, A.; MORENO, V. ; JUAN LLORENS; SUÁREZ, P.; PARRA, E.
Patente Nacional OT 5063. Patrones Semánticos
Titular: UNIVERSIDAD CARLOS III DE MADRID
Fecha Solicitud: 01/01/2012
- *Inventores*: Guillermo Suarez-Tangil; PALOMAR, E.
Método y sistema para detectar software malintencionado
Número Solicitud: **P201230142**
Fecha Solicitud: 31/01/2012
- *Inventores*: IGLESIAS, A. M. ; RUIZ, M.B.; CARRERO, D.; JIMÉNEZ, J.; SÁNCHEZ-PENA, J.M.; REVUELTA, P.; LÓPEZ, J.F.
APUNTA Programa de ordenador para subtitular en directo
Titular: UNIVERSIDAD CARLOS III DE MADRID
Número Solicitud: **M-005804/2012**
Fecha Solicitud: 26/07/2012
- *Inventores*: MORENO, V. ; MORATO, J. L. ; SANCHEZ-CUADRADO, S. ; PARRA, E.
Monek desktop search
Titular: UNIVERSIDAD CARLOS III DE MADRID
Número Solicitud: **M-001076/2012**
Fecha Solicitud: 09/02/2012
- *Inventores*: MORENO, V. ; ROBLDANO, J.
Método y sistema de procesamiento de imágenes digitales, método y sistema de clasificación de imágenes digitales
Titular: UNIVERSIDAD CARLOS III DE MADRID
Número Solicitud: **P201231579**
Fecha Solicitud: 16/10/2012
- *Inventores*: MORENO, V. ; SUÁREZ, P.M.; FRAGA, A.; JUAN LLORENS; PARRA, E.
Método de generación de patrones semánticos
Titular: UNIVERSIDAD CARLOS III DE MADRID
Número Solicitud: **P201231484**
Fecha Solicitud: 26/09/2012
- *Inventores*: ORFILA, A. ; CACERES, A.
T-MAIL Aplicación móvil de correo seguro para Android
Titular: UNIVERSIDAD CARLOS III DE MADRID
Número Solicitud: **M-007268/2012**
Fecha Solicitud: 27/09/2012

Actividades de cooperación internacional

Acciones integradas y bilaterales

- BORRAJO, D.
Introduction to Intelligent Problem Solving Techniques for Planning, Scheduling & Execution, *Instituto de Altos Estudios Espaciales Mario Gulich*, ARGENTINA. Duracion: de 2012 a 2012.
Descripción: Maestría en Aplicaciones Espaciales de Alerta y Respuesta Temprana a Emergencias

Actividades de formación y movilidad de personal investigador

Estancias en otros centros

- ALVARO TORRALBA ARIAS DE REYNA
Título: Búsqueda Simbólica en Planificación Automática
Centro Externo: TZI-Bremen Universität
País: ALEMANIA
Duración: 10/12/2011 a 22/01/2012.
- DAVID DIEZ CEBOLLERO
Título: Estudio sobre el diseño para la colaboración y el uso de artefactos digitales
Centro Externo: Universidad de Oslo InterMedia
País: NORUEGA
Duración: 01/06/2012 a 31/08/2012.
- ESTHER PALOMAR GONZALEZ
Título: Cooperation in Ad hoc and Social Networks
Centro Externo: Simula Research Laboratory
País: NORUEGA
Duración: 01/01/2012 a 31/07/2012.
- GUILLERMO NICOLAS SUAREZ DE TANGIL ROTAECHE
Título: Seguridad en las nuevas tecnologías: smartphones y mobile cloud
Centro Externo: Università di Roma Tre
País: ITALIA
Duración: 01/09/2012 a 31/12/2012.
- JORGE LUIS MORATO LARA
Título: Curso Creación Automática de Tesoros
Centro Externo: Universidad Edimburgo, Escuela de Informática
País: REINO UNIDO
Duración: 01/09/2012 a 30/09/2012.

- **JOSE MARIA SIERRA CAMARA**
Título: Estancia de investigación en el Computer Science and Artificial Intelligence Laboratory
Centro Externo: Massachusetts Institute for Technology
País: ESTADOS UNIDOS DE AMERICA
Duración: 01/09/2011 a 31/08/2012.

- **JULIAN MORENO SCHNEIDER**
Título: Análisis en redes sociales en el grupo Tecnologías del Lenguaje
Centro Externo: Centro Alemán de Inteligencia Artificial (DFKI) Saarbrucken
País: ALEMANIA
Duración: 01/07/2012 a 30/11/2012.

- **LEONARDO CASTAÑO ZABALETA**
Título: Centro alemán de Inteligencia Artificial en Saarbrucken
Centro Externo: Centro alemán de Inteligencia Artificial (DFKI) Saarbrucken
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Duración: 01/07/2012 a 31/10/2012.

- **RICARDO ALER MUR**
Título: Estancia Investigación Universidad de Estocolmo
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País: SUECIA
Entidad Financiadora: BANKIA, S.A.
Duración: 01/04/2012 a 31/08/2012.

- **SERGIO PASTRANA PORTILLO**
Título: Desarrollo de un evaluador de IDS
Centro Externo: Norwegian Information Security Lab. Gjøvik University Collegue
País: NORUEGA
Duración: 01/08/2012 a 30/11/2012.

- **VALENTIN MORENO PELAYO**
Título: Estudios bibliométricos de la producción científica en el campo de la bioinformática. Análisis de redes de moléculas que interaccionan entre sí
Centro Externo: MAX-DELBRÜCK-CENTER FOR MOLECULAR MEDICINE BERLIN-BUCH
País: ALEMANIA
Duración: 20/06/2012 a 20/10/2012.

- **VIDAL ALCAZAR SAIZ**
Título: Explotación de Landmarks en Abstracciones
Centro Externo: Freiburg Universität
País: ALEMANIA
Duración: 08/01/2012 a 01/06/2012.

Estancias de investigadores externos en la universidad

- **ARTURO RIBAGORDA GARNACHO**
Título: Desarrollo de la línea de trabajo: Privacy issues in Human Based Sensing systems del Cátedra de Excelencia
Investigador Externo: DI PIETRO, R.
Centro Externo: Universidad de Roma Tre
País: ITALIA
Duración: 01/02/2012 a 31/07/2012.

ÁREA DE CONOCIMIENTO: LENGUAJES Y SISTEMAS INFORMÁTICOS

Actividades de investigación

Tesis Doctorales

- Búsqueda rápida de caminos en grafos de alta cardinalidad estáticos y dinámicos
Autores: RIVERO, J.
Director: CUADRA, M. D. ; CALLE, F. J.
Año: 2012
- Gestión avanzada de turnos para la interacción natural
Autores: VALLE, D.D.
Director: CUADRA, M. D. ; CALLE, F. J.
Año: 2012
- ITAKA: Gestión interactiva del conocimiento en organizaciones de desarrollo de Software
Autores: HEREDIA, A.
Director: AMESCUA, A. D. ; GARCIA, J.
Año: 2012
- Marco Metodológico Para La Mejora De Las Actividades De Verificación y Validación De Productos Software
Autores: SANZ, A.
Director: GARCIA, J. ; AMESCUA, A. D.
Año: 2012
- Patrones de Proyectos Para Gestionar El Conocimiento En Organizaciones de Desarrollo Software
Autores: MARTIN, D.
Director: JUAN LLORENS; GARCIA, J.
Año: 2012

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas nacionales

- CALVO, M.D.R.; MORENO, L. ; IGLESIAS, A. M.
Requirements elicitation for designing an accessible chat = Captura de requisitos para el diseño de un chat accesible , *Revista española de innovación, calidad e ingeniería del software*, Vol. 8, Núm. 1, 2012, pp. 7-21, ESPAÑA.
- LUCIO-NIETO, T.; COLOMO, R.; MORA, J.A.
Hacia una oficina de gestión de servicios en el ámbito de ITIL , *Revista de procesos y métricas de las tecnologías de la información*, Vol. 9, Núm. 1, 2012, pp. 12-28, ESPAÑA.
- SANCHEZ, M. I. ; MEDINA, F.
Foro profesional TIC: "El papel de la mujer en la profesión TIC" , *Novática*, Núm. 219, 2012, pp. 4-5, ESPAÑA.
- VILLENA, J. ; MORENO, L. ; MARTINEZ, P.
Sistema SAGAS: herramienta de soporte al subtulado para personas sordas , *Procesamiento del lenguaje natural*, Núm. 49, 2012, pp. 217-220, ESPAÑA.

Publicaciones en revistas científicas internacionales

- ALBACETE, E.; CALLE, F. J. ; CASTRO, E. ; CUADRA, M. D.
Semantic Similarity Measures Applied to an Ontology for Human-Like Interaction , *Journal of Artificial Intelligence Research*, Vol. 44, 2012, pp. 397-421, ESTADOS UNIDOS DE AMERICA.
- ALJUMAILY, H.T.A.; MARTINEZ, P.; MARTINEZ, J.L.; VAN DER GOOT, E.
A real time Named Entity Recognition system for Arabic text mining, *Language resources and evaluation*, Vol. 46, 2012, pp. 543-563, HOLANDA.
- COLOMO, R.; GONZALEZ, I. ; LOPEZ, J. L. ; GARCIA, A.
Resyster: A hybrid recommender system for scrum team roles based on fuzzy and rough sets, *International Journal of Applied Mathematics and Computer Science*, Vol. 22, Núm. 4, 2012, pp. 801-816, POLONIA.
- CUADRA, M. D. ; MARTINEZ, P.; CASTRO, E. ; ALJUMAILY, H.T.A.
Guidelines for representing complex cardinality constraints in binary and ternary relationships, *Software and systems modeling*, 2012, ALEMANIA.
- GARCIA, A.; LOPEZ, J. L. ; GONZALEZ, I. ; COLOMO, R.; RUIZ, M.B.
SINVLIQ: Using semantics and fuzzy logic to provide individual investment portfolio recommendations , *Knowledge-Based Systems*, Vol. 27, 2012, pp. 103-118, HOLANDA.
- GARCÍA, H.; MORATO, J. L. ; GENOVA, G.
TRAMA: A Reference Model and Architecture for Traceability Management = TRAMA: Un modelo de Referencia y Arquitectura para la Gestión de la Trazabilidad , *Técnica administrativa*, Vol. 11, Núm. 3, 2012, pp. 1-12, ARGENTINA.
- GARCIA, J. ; FERNANDEZ, F.
Safe Exploration of State and Action Spaces in Reinforcement Learning, *Journal of Artificial Intelligence Research*, Vol. 45, 2012, pp. 515-564, ESTADOS UNIDOS DE AMERICA.

- GONZALEZ, I. ; COLOMO, R.; LOPEZ, J. L. ; GARCIA, A.; RUIZ, M.B.
PB-ADVISOR: A private banking multi-investment portfolio advisor , *Information sciences*, Vol. 206, 2012, pp. 63-82, HOLANDA.
- GONZALEZ, I. ; COLOMO, R.; LOPEZ, J. L. ; GARCIA, F.J.
SEffEst: Effort estimation in software projects using fuzzy logic and neural networks , *International journal of computational intelligence systems* , Vol. 5, 2012, pp. 679-699, HOLANDA.
- GONZALEZ, I. ; GARCIA, A.; RUIZ, M.B.; LOPEZ, J. L.
An optimization methodology for machine learning strategies and regression problems in ballistic impact scenarios, *Applied intelligence*, Vol. 36, Núm. 2, 2012, pp. 424-441, ESTADOS UNIDOS DE AMERICA.
- GONZALEZ, I. ; GARCIA, A.; RUIZ, M.B.; LOPEZ, J. L.
A neural network-based methodology for the recreation of high-speed impacts on metal armours, *Neural Computing and Applications*, Vol. 21, Núm. 1, 2012, pp. 91-107, REINO UNIDO.
- Juan Gómez-Romero; SERRANO, M.A.; PATRICIO, M. A. ; GARCIA, J. ; MOLINA, J. M.
Context-based scene recognition from visual data in smart homes: an Information Fusion approach, *Personal and ubiquitous computing*, Vol. 16, 2012, pp. 835-857, REINO UNIDO.
- LOPEZ, J. L. ; COLOMO, R.; GONZALEZ, I. ; GARCIA, A.; RUIZ, M.B.
SABUMO: Towards a collaborative and semantic framework for knowledge sharing , *Expert systems with applications*, Vol. 39, Núm. 10, 2012, pp. 8671-8680, REINO UNIDO.
- MARRERO, M.; SANCHEZ-CUADRADO, S. ; URBANO, J.; MORATO, J. L. ; MOREIRO, J. A.
Information Retrieval Systems Adapted to the Biomedical Domain , *Computing Research Repository*, 2012.
- MARRERO, M.; URBANO, J.; SANCHEZ-CUADRADO, S. ; MORATO, J. L. ; GOMEZ, J.M.
Named entity recognition: fallacies, challenges and opportunities , *Computer standards and interfaces*, 2012, HOLANDA.
- MARTI, E.D.; MARTIN, D.; GARCIA, J. ; ESCALERA, A.; MOLINA, J. M. ; ARMINGOL, J. M.
Context-aided Sensor Fusion for Enhanced Urban Navigation , *Sensors*, Vol. 12, Núm. 12, 2012, pp. 16802-16837, SUIZA.
- MARTIN, D. ; GARCIA, J. ; URBANO, J.; JUAN LLORENS
Patterns as objects to manage knowledge in software development organizations, *Knowledge Management Research and Practice*, Vol. 10, Núm. 3, 2012, pp. 252-274, REINO UNIDO.
- MORENO, A.M.; SANCHEZ, M. I. ; MEDINA, F.; CARVAJAL, L.
Balancing software engineering education and industrial needs, *The Journal of systems and software*, Vol. 85, Núm. 7, 2012, pp. 1607-1620, ESTADOS UNIDOS DE AMERICA.
- RIVERO, J.; CUADRA, M. D. ; CALLE, F. J. ; ISASI, P.
Using the ACO algorithm for path searches in social networks, *Applied intelligence*, Vol. 36, Núm. 4, 2012, pp. 899-917, ESTADOS UNIDOS DE AMERICA.
- ROBLES, K.T.; FRAGA, A.; MORATO, J. L. ; JUAN LLORENS
Towards an ontology-based retrieval of UML Class Diagrams , *Information and software technology*, Vol. 54, Núm. 1, 2012, pp. 72-86, REINO UNIDO.
- RODRIGUEZ, A.; RUIZ, E.
Bootstrap prediction mean squared errors of unobserved states based on the Kalman filter with estimated parameters, *Computational statistics and data analysis*, Vol. 56, Núm. 1, 2012, pp. 62-74, HOLANDA.

- SALDAÑA, J.; SANZ, A.; GARCIA, J. ; AMESCUA, A. D.
Design of a competence model for testing teams , *IET software*, Vol. 6, Núm. 5, 2012, pp. 405-415, REINO UNIDO.
- SERRANO, M.A.; Juan Gómez-Romero; PATRICIO, M. A. ; GARCIA, J. ; MOLINA, J. M.
Ontological Representation of Light Wave Camera Data to Support Vision-Based AmI, *Sensors*, Vol. 12, 2012, pp. 12126-12152, SUIZA.
- UTRAY, F.; CASTRO, M.D.; MORENO, L. ; RUIZ, M.B.
Monitoring Accessibility Services in Digital Television, *International Journal of Digital Multimedia Broadcasting*, Núm. 2012, 2012, EGIPTO.
- VALLE, D.D.; CALLE, F. J. ; CUADRA, M. D. ; RIVERO, J.
Interpretation and generation incremental management in natural interaction systems., *Interacting with Computers*, Vol. 24, Núm. 2, 2012, pp. 78-90, HOLANDA.
- VASQUEZ, D.M.; SANCHEZ, M. I. ; MEDINA, F.; AMESCUA, A. D.
Combining Software Engineering Elicitation Technique with the Knowledge Management Lifecycle , *International Journal of Knowledge Society Research*, Vol. 3, Núm. 1, 2012, pp. 1-13, ESTADOS UNIDOS DE AMERICA.

Colaboraciones en obras colectivas

- CANINO, J.M.; BESADA PORTAS, J.; MOLINA, J. M. ; GARCIA, J.
A Multi-Agent Approach for Designing Next Generation of Air Traffic Systems, en: [Advances in Air Navigation Services](#), INTECH, pp. 147-174, 2012.
- CASTANEDO, F.; Juan Gómez-Romero; PATRICIO, M. A. ; GARCIA, J. ; MOLINA, J. M.
Distributed Data and Information Fusion in Visual Sensor Networks, en: [Distributed Data Fusion for Network-Centric Operations](#), CRC Press & IEEE, pp. 435-466, 2012.
- GARCÍA, A.; GARCIA, J. ; BOURG, L.; OJEL, J.M.; MADRID, R.I.
Social Spaces for Research and Innovation (SSRI): Users Leading Research and Innovation in Ambient Assisted Living, en: [Ambient Intelligence and Smart Environments. Volume 11, Handbook of Ambient Assisted Living](#), IOS Press., HOLANDA, pp. 729-748, 2012.
- GARCIA, A.; GONZALEZ, I. ; QUINTANA, I.; LOPEZ, J. L.
"Dibus para todos": experiencia de sensibilización sobre la accesibilidad en videojuegos, en: [Buenas prácticas de accesibilidad en videojuegos](#), (1ª ed.), IMSERSO, ESPAÑA, pp. 215-218, 2012.
- GENOVA, G. ; GONZÁLEZ, M.D.R.
Cuatro problemas del método científico-experimental que reclaman la apertura a la inteligencia meta-metódica, en: [Inteligencia y filosofía](#), MAROVA, ESPAÑA, pp. 661-680, 2012.
- GENOVA, G. ; JUAN LLORENS; MORATO, J. L.
Software Engineering Research: The Need to Strengthen and Broaden the Classical Scientific Method, en: [Research Methodologies, Innovations and Philosophies in Software Systems Engineering and Information Systems](#), IGI GLOBAL, pp. 106-125, 2012.
- GONZALEZ, I. ; LOPEZ, J. L. ; GARCIA, A.; COLOMO, R.; RUIZ, M.B.
Towards an Improved Hotel Reservation System: A Fuzzy Approach to Improve Service Industries, en: [Knowledge Management and Drivers of Innovation in Services Industries](#), IGI GLOBAL, ESTADOS UNIDOS DE AMERICA, pp. 120-148, 2012.

- IGLESIAS, A. M. ; RUIZ, M.B.; LÓPEZ, J.F.; CARRERO, D.
New Communication Technologies for Inclusive Education in and outside the Classroom, en: Technologies for Inclusive Education: Beyond Traditional Integration Approaches, IGI GLOBAL, pp. 271-284, 2012.
- LOPEZ, J. L. ; GONZALEZ, I. ; GARCIA, A.; RUIZ, M.B.
Exploding Web 3.0 and Web 2.0 for Sales Processes Definition, en: Customer Relationship Management and the Social and Semantic Web: Enabling Cliens Conexus, IGI GLOBAL, pp. 212-230, 2012.
- URBANO, J.
Intranet, en: Docupedia: enciclopedia colaborativa sobre información y documentación, ESPAÑA, 2012.

Ponencias y Comunicaciones a congresos

- CALLE, F. J. ; ALBACETE, E.; SANCHEZ, E.; CUADRA, M. D.
Interacting with Navigation Devices: A Case Study, The Fifth International Conference on Advances in Computer-Human Interactions (ACHI 2012), VALENCIA, ESPAÑA, 2012.
- CALVO, M.D.R.; MORENO, L. ; IGLESIAS, A. M.
Requirements Elicitation to Design an Accessible Chat as a Synchronous Tool in m-Learning Environments; en: Calidad y Accesibilidad de la Formación Virtual: Actas del III Congreso Iberoamericano sobre Calidad y Accesibilidad de la Formación Virtual (CAFVIR 2012) Escuela Técnica Superior de Ingeniería Informática, UNIVERSIDAD DE ALCALA DE HENARES, , 2012.
- GARCIA, A.; GONZALEZ, I. ; LOPEZ, J. L. ; CELORRIO, C.; GONZALEZ, A.
Mobility Platform for Video Content with Augmented Reality, The Seventh International Multi-Conference on Computing in the Global Information Technology (ICCGI 2012), VENEZIA, ITALIA, 2012.
- GARCIA, J. ; FERNANDEZ, A.R.; AMESCUA, A. D. ; VELASCO, M.
A Process Reference Model for Managing Living Labs for ICT Innovation: A Proposal Based on ISO/IEC 15504, 19th European System, Software & Service Process Improvement & Innovation Conference (EuroSPI 2012), VIENA, AUSTRIA, 2012.
- GONZALEZ, M.; MORENO, L. ; MARTINEZ, P.
An Approach to User Interface Design of an Accessible User Agent ; en: Proceedings of the 4th International Conference on Software Development for Enhancing Accessibility and Fighting Info-exclusion (DSAI 2012), ELSEVIER, 2012.
- KOCH, W.; SNIDARO, L.; REIN, K.; ANDLER, S.F.; GARCIA, J. ; WAH NG., G.
Multi-Level Fusion: Issues in Bridging the Gap Between High and Low Level Fusion; en: 2012 15th International Conference on Information Fusion (FUSION 2012) , IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.
- LOPEZ, J. L. ; GONZALEZ, I. ; COLOMO, R.; GOMEZ, R.; GARCIA, A.
CoKIM: Collaborative and Social Knowledge-based Incident Manager; en: 2012 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2012). Proceedings, IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.
- MARTI, E.D.; GARCIA, J. ; CRASSIDIS, J.L.
Improving Multiple-Model Context-Aided Tracking through an Autocorrelation Approach; en: 2012 15th International Conference on Information Fusion (FUSION 2012), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.

- MEDINA, F.; SANCHEZ, M. I. ; MORA, J.A.; AMESCUA, A. D.
Teaching Collaborative Web Tools at University: Does it Help Students to be Competitive in the Labor Market?; en: ICERI2012 Proceedings: 5th International Conference of Education, Research and Innovations Madrid, Spain. 19-21 November, 2012, IATED, , 2012.
- MORA, J.A.; SANCHEZ, M. I. ; RUIZ, R.A.; MEDINA, F.
Organizational Knowledge Management to Increase Productivity, 13th European Conference on Knowledge Management (ECKM 2012), CARTAGENA, ESPAÑA, 2012.
- MORENO, J.; MARTINEZ-FERNANDEZ, J. L. ; MARTINEZ, P.
A Proof-of-Concept for Orthographic Named Entity Correction in Spanish Voice Queries , 10th International Workshop on Adaptive Multimedia Retrieval (AMR 2012), COPENHAGEN, DINAMARCA, 2012.
- MORENO, L. ; MARTINEZ, P.
Revisión de los requisitos de accesibilidad en la interacción de los usuarios ancianos con las aplicaciones web = A Review of Accessibility Requirements in Elderly Users' Interactions with Web Applications ; en: Proceedings of the 13th International Conference on Interacción Persona-Ordenador, ACM, , 2012.
- PADILLA, M.; SANCHEZ, M. I. ; MORA, J.A.; MEDINA, F.
Los softskills de los nuevos profesionales de TI = Softskills of the New IT Professionals , 7th Academic Conference ITGSM12: Creating the New Generation of Professionals and Companies for the Digital Age, LEGANES, ESPAÑA, 2012.
- PALACIOS, V. ; MORATO, J. L. ; SANCHEZ-CUADRADO, S. ; DIMOU, C.
Querying Linked Data: Evaluation of Systems for Semantic Documents Retrieval, LOV Symposium: Linking and Opening Vocabularies, GETAFE, ESPAÑA, 2012.
- PEETERS, G.; URBANO, J.; JONES, G.J.F.
Notes from the ISMIR12 Late-Breaking session on evaluation in music information retrieval, 13th International Society for Music Information Retrieval Conference (ISMIR 2012), OPORTO, PORTUGAL, 2012.
- POZO, A.; PATRICIO, M. A. ; GARCIA, J. ; MOLINA, J. M. ; REFOYO, I.
Group Behavior Recognition Issue, Feature Analysis on Defending Pick and Roll Basketball Move; en: Advances in Knowledge-Based and Intelligent Information and Engineering Systems, IOS Press., , 2012.
- ROBLES, K.T.; RUIZ, R.A.; FRAGA, A.; JUAN LLORENS
An Approach to Simplify Navigation within Ontologies, 3rd International Workshop on Software Knowledge (SKY 2012). 4th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management (IC3K 2012), BARCELONA, ESPAÑA, 2012.
- SALAMON, J.; URBANO, J.
Current Challenges in the Evaluation of Predominant Melody Extraction Algorithms, 13th International Society for Music Information Retrieval Conference (ISMIR 2012), OPORTO, PORTUGAL, 2012.
- SANCHEZ, M. I. ; RUIZ, R.A.; MORA, J.A.
Enhancing Process Asset Assessment, SEPG Europe 2012 Conference, MADRID, ESPAÑA, 2012.
- SERRANO, M.A.; Juan Gómez-Romero; PATRICIO, M. A. ; GARCIA, J. ; MOLINA, J. M.
Applying the Dynamic Region Connection Calculus to Exploit Geographic Knowledge in Maritime Surveillance; en: 2012 15th International Conference on Information Fusion (FUSION 2012), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2012.
- URBANO, J.; DOWNIE, J.S.; MCFEE, B.; SCHEDL, M.
How Significant is Statistically Significant? The case of Audio Music Similarity and Retrieval, 13th International Society for Music Information Retrieval Conference (ISMIR 2012), OPORTO, PORTUGAL, 2012.

- URBANO, J.; JUAN LLORENS; MORATO, J. L. ; SANCHEZ-CUADRADO, S.
MIREX 2012 Symbolic Melodic Similarity: Hybrid Sequence Alignment with Geometric Representations, Music Information Retrieval Evaluation eXchange (MIREX 2012), OPORTO, PORTUGAL, 2012.
- URBANO, J.; SCHEDL, M.
Towards Minimal Test Collections for Evaluation of Audio Music Similarity and Retrieval; en: Proceedings of the 21st international conference companion on World Wide Web, ACM, ESTADOS UNIDOS DE AMERICA, 2012.

Actividades de formación y movilidad de personal investigador

Estancias en otros centros

- MANUELA ALEJANDRES SANCHEZ
Título: Análisis de redes de moléculas que interactúan entre sí. Estudios bibliométricos de la producción científica en el campo de la bioinformática
Centro Externo: MAX-DELBRÜCK-CENTER FOR MOLECULAR MEDICINE BERLIN-BUCH
País: ALEMANIA
Duración: 20/06/2012 a 20/08/2012.
- MONICA MARRERO LLINARES
Título: Diseño y despliegue de un sistema de organización de la información distribuido haciendo uso de las actuales tecnologías Web
Centro Externo: Observatorio Vesubiano (Instituto Nacional de Geofísica y Vulcanología)
País: ITALIA
Duración: 01/09/2012 a 31/12/2012.