

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 contributions for modeling and simulating high performance computing applications on parallel and distributed architectures
Autores: NUÑEZ, A.
Director: CARRETERO, J.; FERNANDEZ, J.
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2011

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas internacionales

- ESCOLAR, M. S. ; CARRETERO, J.; CALDERON, A. ; MARINESCU, M.C.; BERGUA, B.M.
A novel methodology for the monitoring of the agricultural production process based on wireless sensor networks , *Computers and electronics in agriculture*, Vol. 76, Núm. 2, 2011, pp. 252-265, HOLANDA.
- FILGUEIRA, R.; EXPOSITO, D.; CARRETERO, J.; CALDERON, A.; GARCIA-CARBALLEIRA, F.
Adaptive-Compi: Enhancing Mpi-Based Applications' Performance and Scalability by using Adaptive Compression, *International journal of high performance computing applications*, Vol. 25, Núm. 1, 2011, pp. 93-114, ESTADOS UNIDOS DE AMERICA.
- ISAILA, F.D.; GARCIA , J.; CARRETERO, J.; LATHAM, R.; ROSS, R.
Design and Evaluation of Multiple-Level Data Staging for Blue Gene Systems , *IEEE transactions on parallel and distributed systems* , Vol. 22, Núm. 6, 2011, pp. 946-959, ESTADOS UNIDOS DE AMERICA.
- MALIZIA, A.; BELLUCCI, A.; DIAZ, M. P. ; AEDO, I. ; LEVIALDI GHIRON, S.
eStorys: A visual storyboard system supporting back-channel communication for emergencies, *Journal of visual languages and computing*, Vol. 22, Núm. 2, 2011, pp. 150-169, REINO UNIDO.
- PRADA, L.; GARCIA, J. ; GARCIA, J.D.; CARRETERO, J.
Power saving-aware prefetching for SSD-based systems , *Journal of supercomputing*, Vol. 58, 2011, pp. 323-331, HOLANDA.

Colaboraciones en obras colectivas

- ESCOLAR, M. S. ; CARRETERO, J.; FERNANDEZ, J.
Survey of the State-of-the-Art in Flash-based Sensor Nodes, en: Flash Memories, INTECH, pp. 113-137, 2011.
- GIUNTA, G.; MONTELLA, R.; LACCETTI, G.; ISAILA, F.D.; GARCIA, F.J.
A GPU Accelerated High Performance Cloud Computing Infrastructure for Grid Computing Based Virtual Environmental Laboratory, en: Advances in Grid Computing, INTECH, pp. 121-146, 2011.

Ponencias y Comunicaciones a congresos

- AMMENOUCHE, S.; EXPOSITO, D.; CARRETERO, J.; JALBY, W.
Software Prefetch on Core Micro-Architecture Applied to Irregular Codes; en: Proceedings of the 2011 International Conference on High Performance Computing & Simulation (HPCS 2011), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2011.
- ESCOLAR, M. S. ; CHESSA, S.; CARRETERO, J.
Cross-Layer Optimization of Low Power Listening MAC Protocols for Wireless Sensor Networks; en: 2011 16th IEEE Symposium on Computers and Communications (ISCC 2011), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2011.
- GARCIA, J. ; ALONSO, J.C.; AMESCUA, A. D.
Use of Mobile Application in Spanish Universities: Present Status and Future Challenges; en: ICERI2011 Proceedings, IATED, , 2011.
- LIRIA, E.; GARCIA, J.; ABELLA, M.; ISAILA, F.D.; CARRETERO, J.; DESCO, M.
Implementación modular en GPU de un algoritmo de reconstrucción basado en FDK para tomografía de rayos X; en: Libro de actas del XXIX Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB), , 2011.
- MARTÍN, G.; MARINESCU, M.C.; EXPOSITO, D.; CARRETERO, J.
EpiGraph: A Scalable Simulation Tool for Epidemiological Studies; en: Proceedings of the 2011 International Conference on Bioinformatics and Computational Biology (BIOCOMP'11), 2011.
- NUÑEZ, A.; FERNANDEZ, J. ; CARRETERO, J.; PRADA, L.; BLAUM, M.
Optimizing Distributed Architectures to Improve Performance on Checkpointing Applications; en: 2011 IEEE 13th International Conference on High Performance Computing and Communications (HPCC), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2011.
- PADILLA, M.; SANCHEZ, M. I. ; MORA, J.A.; AMESCUA, A. D.
Assessing Leadership, Commitment and Solidarity on the Classroom; en: ICERI2011 Proceedings, IATED, , 2011.
- PRADA, L.; GARCIA, J.; GARCIA, J.D.; CARRETERO, J.; NUÑEZ, A.
A Power-aware Based Storage Architecture for High Performance Computing; en: 2011 IEEE 13th International Conference on High Performance Computing and Communications (HPCC), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2011.

- TIRADO, J.M.; HIGUERO, D.; ISAILA, F.D.; CARRETERO, J.
Predictive Data Grouping and Placement for Cloud-based Elastic Server Infrastructures; en: 2011 Proceedings of 11th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid 2011), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2011.
- TIRADO, J.M.; HIGUERO, D.; ISAILA, F.D.; CARRETERO, J.
Analyzing the Impact of Events in an Online Music Community, 4th Workshop on Social Network Systems (SNS 2011), SALZBURGO, AUSTRIA, 2011.
- TIRADO, J.M.; HIGUERO, D.; ISAILA, F.D.; CARRETERO, J.
Multi-Model Prediction for Enhancing Content Locality in Elastic Server Infrastructures; en: 2011 18th International Conference on High Performance Computing (HiPC), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2011.

Actividades de formación y movilidad de personal investigador

Estancias en otros centros

- BORJA MAXIMILIANO BERGUA GUERRA
Título: Caracterización de ejecuciones empíricas de aplicaciones MapReduce. MapReduce es un nuevo paradigma de programación introducido por Google para dar soporte a computación paralela y distribuida de aplicaciones muy intensivas en E/S. En esta estancia se ha caracterizado el comportamiento de ejecuciones empíricas de aplicaciones MapReduce con el objetivo de crear herramientas de simulación efectivas para entornos intensivos de E/S paralela y distribuida basados en MapReduce
Centro Externo: INRIA, Grenoble (Francia)
País: FRANCIA
Duración: 22/07/2011 a 29/10/2011.
- DANIEL HIGUERO ALONSO-MARDONES
Título: El objetivo de la estancia ha sido la incorporación de optimizaciones en cuanto al aprovisionamiento de recursos para el despliegue óptimo del sistema de almacenamiento distribuido BlobSeer desarrollado en Kerdata. Las pruebas del sistema se han llevado a cabo utilizando una capa de abstracción intermedia que permite ejecutar BlobSeer como sistema de ficheros de Hadoop. Los resultados del modelo lineal de optimización obtenidos serán enviados para su publicación al congreso ISPA 2012.
Centro Externo: Kerdata - INRIA Rennes - Bretagne Atlantique Research Center, Campus de Beaulieu, Rennes, 35042 cedex
País: FRANCIA
Duración: 01/09/2011 a 30/11/2011.
- JAVIER FERNANDEZ MUÑOZ
Título: El trabajo consiste en la implementación de un módulo de compresión especulativa para las comunicaciones en openmpi. Consiste en una modificación del módulo de comunicaciones punto a punto de openmpi para mensajes de tipo rendezvous
Centro Externo: High Performance Computing Center Stuttgart (HLRS) de la universidad de Stuttgart (Alemania)
País: ALEMANIA
Duración: 01/01/2011 a 31/10/2011.
- JUAN MANUEL TIRADO MARTIN
Título: Desarrollo de un sistema de recomendación completamente descentralizado para la explotación de datos geográficos. El sistema explota una medida de entropía geográfica conocida como Geology
Centro Externo: INRIA, Rennes (Francia)

País: FRANCIA

Duración: 05/09/2011 a 05/12/2011.

- **MARIA SOLEDAD ESCOLAR DIAZ**

Título: We improved a previous model which takes into account the network delays when Low Power Listening (LPL) is used in Wireless Sensor Networks applications

Centro Externo: Universidad de Pisa (Italia)

País: ITALIA

Duración: 12/09/2011 a 11/12/2011.

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

- Arquitectura multicapa realimentada para el aprendizaje de ontologías desde fuentes heterogéneas de información y conocimiento
Autores: MANZANO, D.
Director: BORRAJO, D. ; GOMEZ, A.
Centro donde se presentó: Facultad de Informática UPM
Año: 2011
- Diseño automático de funciones hash no criptográficas
Autores: ESTEBANEZ, C.
Director: ISASI, P.; SAEZ, Y.
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2011
- Enhancing the reliability of digital signatures as non-repudiation evidence under a holistic threat model
Autores: LOPEZ, J.
Director: GONZALEZ-TABLAS, A. I.
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2011
- Evaluation and development of consciousness in artificial cognitive systems
Autores: ARRABALES, R.
Director: SANCHIS, M. A. ; LEDEZMA, A. I.
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2011
- Intelligent techniques for context-aware system adaptation
Autores: SANCHEZ, N.
Director: CARBO, Javier
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2011
- Marco metodológico y tecnológico para la gestión del conocimiento organizativo que de soporte al despliegue de buenas prácticas de ingeniería del software
Autores: MORA, J.A.
Director: SANCHEZ, M. I.
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2011

- Nuevos protocolos y esquemas de seguridad para redes ad-hoc móviles inalámbricos
Autores: DELGADO, O.
Director: FUSTER, A.; SIERRA, J. M.
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2011

- Planning and learning under uncertainty
Autores: JIMENEZ, S.
Director: BORRAJO, D. ; FERNANDEZ, F.
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2011

- Scalable multi-objective optimization
Autores: MARTI, L.
Director: BERLANGA, A. ; MOLINA, J. M.
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2011

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas nacionales

- GRIOL, D.; CORRALES, V.; MOLINA, J. M.
Utilización de las tecnologías del habla para facilitar el acceso a la web , *Revista electrónica de ADA*, Vol. 5, Núm. 3, 2011, pp. 239-247, ESPAÑA.

- GRIOL, D.; MOLINA, J. M. ; CALLEJAS, Z.; LOPEZ, R.
La plataforma EDUCAGENT: agentes conversacionales inteligentes y entornos virtuales aplicados a la docencia , *Revista Iberoamericana de Informática Educativa*, Núm. 13, 2011, pp. 15-31, ESPAÑA.

- HERNANDEZ, A.; COLOMO, R.; GARCIA, A.
Medición de la productividad de los puestos de trabajo en Ingeniería del Software , *Revista de procesos y métricas de las tecnologías de la información*, Vol. 8, Núm. 1, 2011, pp. 44-58, ESPAÑA.

- MARTIN, D.; MARRERO, M.; URBANO, J.; BARRA, E.; MOREIRO, J. A.
Virtualización, una solución para la eficiencia, seguridad y administración de intranets = Virtualization: a solution for efficiency, security and management of intranets , *El Profesional de la información*, Vol. 20, Núm. 3, 2011, pp. 348-354, ESPAÑA.

- MOREIRO, J. A. ; SANCHEZ-CUADRADO, S. ; PALACIOS, V. ; BARRA, E.
Evaluación de software libre para la gestión de archivos administrativos = Free software evaluation for administrative archives management, *El Profesional de la información*, Vol. 20, Núm. 2, 2011, pp. 206-213, ESPAÑA.

- PADILLA, M.; SANCHEZ, M. I. ; MORA, J.A.; AMESCUA, A. D.
Las redes sociales al servicio del aprendizaje: un caso práctico , *Revista electrónica de ADA*, Vol. 5, Núm. 1, 2011, pp. 1-10, ESPAÑA.

- PUERTA HILLMAN, J.; COLOMO, R.; GARCIA, A.
Recomendaciones para la adopción de prácticas de gestión del capital humano en entornos ágiles bajo SCRUM , *Revista de procesos y métricas de las tecnologías de la información*, Vol. 8, Núm. 1, 2011, pp. 5-21, ESPAÑA.
- QUINTERO, E.A.; GARCIA, A.; BORRAJO, D. ; FERNANDEZ, F.
Control of Autonomous Mobile Robots with Automated Planning , *Journal of physical agents*, Vol. 5, Núm. 1, 2011, pp. 3-13, ESPAÑA.

Publicaciones en revistas científicas internacionales

- AEDO, I. ; JEMMI, M.; SPECTOR, J.M.; ZAICEVA, L.
Advanced Learning Technologies, *Educational Technology & Society*, Vol. 14, Núm. 4, 2011, pp. 1-1, ALEMANIA.
- ALONSO, J. M. ; SANCHIS VIDAL, A.
A Skeletonizing Reconfigurable Self-Organizing Model: Validation Through Text Recognition, *Neural Processing Letters*, Vol. 34, Núm. 1, 2011, pp. 39-58, BÉLGICA.
- ARRABALES, R.; LEDEZMA, A. I. ; SANCHIS, M. A.
Simulating Visual Qualia in the CERA-CRANIUM Cognitive Architecture, *Advances in experimental medicine and biology*, Vol. 718, 2011, pp. 223-238, ESTADOS UNIDOS DE AMERICA.
- ASIMAKOPOULOS, S.; DIX, A.; FILDES, R.
Using hierarchical task decomposition as a grammar to map actions in context: Application to forecasting systems in supply chain planning, *International journal of human-computer studies*, Vol. 69, Núm. 4, 2011, pp. 234-250, REINO UNIDO.
- CALLEJAS, Z.; GRIOL, D.; LOPEZ-COZAR, L.
Predicting user mental states in spoken dialogue systems, *EURASIP Journal on Advances in Signal Processing* , 2011, EGIPTO.
- CASADO, C.; COLOMO, R.; HERNANDEZ, A.; SOTO, P.
Personnel Performance Appraisal Coverage in ITIL, COBIT and CMMi: A Study from the Perspective of People-CMM , *International Journal of Knowledge Society Research*, Vol. 2, Núm. 2, 2011, pp. 59-70, ESTADOS UNIDOS DE AMERICA.
- CASADO, C.; COLOMO, R.; SOTO, P.; MISRA, S.
Culture dimensions in software development industry: The effects of mentoring , *Scientific research and essays*, Vol. 6, Núm. 11, 2011, pp. 2403-2412, NIGERIA.
- CASADO, C.; COLOMO, R.; SOTO, P.; ORDOÑEZ, P.
Personnel performance assessment in information systems outsourcing environments , *Journal of workplace learning*, Vol. 23, Núm. 7, 2011, pp. 468-482, REINO UNIDO.
- COLOMO, R.
Managing IT Professionals in Global Environments Preface, *Journal of Global Information Technology Management*, Vol. 14, 2011, pp. 1-3, ESTADOS UNIDOS DE AMERICA.
- COLOMO, R.
SourceIT: Balancing Sourcing and Innovation in Information Systems Development, *Journal of Global Information Technology Management*, Vol. 14, 2011, pp. 74-76, ESTADOS UNIDOS DE AMERICA.

- COLOMO, R.; CASADO, C.; SOTO, P.; GARCIA, A.
Decisions in software development projects management. An exploratory study., *Behaviour and information technology*, Vol. 30, 2011, pp. 1-9, REINO UNIDO.
- COLOMO, R.; CASADO, C.; TOVAR, E.; SOTO, P.
A step towards human capital management in the software industry based on generic competencies , *International Journal of Strategic Change Management*, Vol. 3, Núm. 4, 2011, pp. 247-259, REINO UNIDO.
- COLOMO, R.; FERNANDES, E.; SOTO, P.; SABBAGH, M.
Software product evolution for Intellectual Capital Management: The case of Meta4 PeopleNet, *International journal of information management*, Vol. 31, Núm. 4, 2011, pp. 395-399, REINO UNIDO.
- COLOMO, R.; GARCIA, A.; JIMENEZ, D.; BLANCO, B.
A social web platform based on semantics to share exam questions: the SOLE approach , *International journal of technology enhanced learning*, Vol. 3, Núm. 3, 2011, pp. 255-265, REINO UNIDO.
- COLOMO, R.; SABBAGH, M.
The Expert Opinion An Interview with Marc Sabbagh R&D Vice President Meta4 Spain, *Journal of Global Information Technology Management*, Vol. 14, 2011, pp. 70-73, ESTADOS UNIDOS DE AMERICA.
- CRESCENZI, P.; MALIZIA, A.; VERRI, M.; DIAZ, M. P. ; AEDO, I.
On two collateral effects of using algorithm visualizations, *British Journal of Educational Technology*, Vol. 42, Núm. 6, 2011, pp. 145-147, REINO UNIDO.
- CUADRA, M. D. ; ALJUMAILY, H.T.A.; CASTRO, E. ; VELASCO, M.
AN OCL-BASED APPROACH TO DERIVE CONSTRAINT TEST CASES FOR DATABASE APPLICATIONS, *International journal of software engineering and knowledge engineering*, Vol. 21, Núm. 5, 2011, pp. 621-645, SINGAPUR.
- CUADRA, M. D. ; CALLE, F. J. ; RIVERO, J.
How to manage spatio-temporal events in relational databases, *Journal of Research and Practice in Information Technology*, Vol. 43, Núm. 4, 2011, pp. 329-344, AUSTRALIA.
- DELGADO, O.; FUSTER, A.; SIERRA, J. M.
Performance evaluation of highly efficient techniques for software implementation of LFSR, *Computers and electrical engineering*, Vol. 37, Núm. 6, 2011, pp. 1222-1231, ESTADOS UNIDOS DE AMERICA.
- DELGADO, O.; FUSTER, A.; SIERRA, J. M.
A light-weight authentication scheme for wireless sensor networks, *Ad Hoc Networks*, Vol. 9, Núm. 5, 2011, pp. 727-735, HOLANDA.
- DIAZ, M. P. ; GIACCARDI, E.; AEDO, I.
Rethinking Education in an Changing World: toward a Curriculum for Digital Living , *Interactions*, Vol. 18, Núm. 4, 2011, pp. 64-68, ESTADOS UNIDOS DE AMERICA.
- ECHEVARRIA, A.; VALLS, J. M. ; ALER, R.
Evolving linear transformations with a rotation-angles/scaling representation, *Expert systems with applications*, Vol. 39, Núm. 3, 2011, pp. 3276-3282, REINO UNIDO.
- FERNANDEZ, C. ; DIEZ, D.; ZARRAONANDIA, T. A. ; TORRES JIMENEZ, J.
A Student-Centered Introductory Programming Course: The Cost of Applying Bologna Principles to Computer Engineering Education, *International Journal of Engineering Education*, Vol. 27, Núm. 1, 2011, pp. 14-23, IRLANDA.

- FERNANDEZ, S. ; ALER, R. ; BORRAJO, D.
Knowledge Transfer between Automated Planners, *AI Magazine*, Vol. 32, Núm. 2, 2011, pp. 79-94, ESTADOS UNIDOS DE AMERICA.
- GALVAN, I. M. ; VALLS, J. M. ; GARCIA LOBO, M. ; ISASI, P.
A Lazy Learning Approach for Building Classification Models, *International journal of intelligent systems*, Vol. 26, Núm. 8, 2011, pp. 773-786, ESTADOS UNIDOS DE AMERICA.
- GARCIA, A.; GOMEZ, J.M.; COLOMO, R.; GARCIA, F.
Digital libraries and Web 3.0. The CallimachusDL approach , *Computers in Human Behavior*, Vol. 27, Núm. 4, 2011, pp. 1424-1430, HOLANDA.
- GARCIA, A.; GONZALEZ, I. ; COLOMO, R.; LOPEZ, J. L. ; RUIZ, M.B.
Methodology for Software Development Estimation Optimization Based on Neural Networks, *IEEE Latin America transactions*, Vol. 9, Núm. 3, 2011, pp. 391-405, ESTADOS UNIDOS DE AMERICA.
- GARCIA, A.; LOPEZ, J. L. ; COLOMO, R.; GONZALEZ, I. ; RUIZ, M.B.
Sem-Fit: A semantic based expert system to provide recommendations in the tourism domain, *Expert systems with applications*, Vol. 38, Núm. 10, 2011, pp. 13310-13319, REINO UNIDO.
- GARCIA, A.; RUIZ, M.B.; LOPEZ, J. L. ; GONZALEZ, I.
A review of conventional and knowledge based systems for machining price quotation, *Journal of intelligent manufacturing*, Vol. 22, Núm. 6, 2011, pp. 823-841, REINO UNIDO.
- GARCIA, A.; RUIZ, M.B.; LOPEZ, J. L. ; GONZALEZ, I.
Semantic model for knowledge representation in e-business, *Knowledge-Based Systems*, Vol. 24, Núm. 2, 2011, pp. 282-296, HOLANDA.
- GARCIA, E.; GALVAN, I. M. ; DE CASTRO GONZALEZ, A.J.
Recursive discriminant regression analysis to find homogeneous groups, *International journal of neural systems* , Vol. 21, Núm. 1, 2011, pp. 95-101, SINGAPUR.
- GARCÍA, F.J.; COLOMO, R.; SOTO, P.; MARTÍNEZ, I.; SERRADELL, E.
SemSEDoc: Utilización de tecnologías semánticas en el aprovechamiento de los repositorios documentales de los proyectos de desarrollo de software, *Information research*, Vol. 16, Núm. 4, 2011, REINO UNIDO.
- GASCON, H.; ORFILA, A. ; BLASCO, J.
Analysis of update delays in signature-based network intrusion detection systems, *Computers and security*, Vol. 30, Núm. 8, 2011, pp. 613-624, HOLANDA.
- GENOVA, G. ; JUAN LLORENS; FUENTES, J. M. ; MORATO, J. L. ; MARTINEZ, P.
Conceptual hierarchies in UML:comparing ISO 2788 standard with the UML metamodel = Las jerarquías conceptuales en UML: comparando la norma ISO 2788 con el metamodelo de UML , *Técnica administrativa*, Vol. 10, Núm. 1, 2011, pp. 1-10, ARGENTINA.
- GOMEZ, J.M.; COLOMO, R.; LOPEZ, J. L. ; GONZALEZ, I. ; GARCIA, A.
SEAN: Multi-ontology semantic annotation for highly accurate closed domains , *International Journal of Physical Sciences*, Vol. 6, Núm. 6, 2011, pp. 1440-1451, NIGERIA.
- HERNANDEZ, A.; COLOMO, R.; GARCIA, A.; CABEZAS, F.L.
Software Engineering Productivity: Concepts, Issues and Challenges , *International Journal of Information Technology Project Management*, Vol. 2, Núm. 1, 2011, pp. 37-47, ESTADOS UNIDOS DE AMERICA.

- IGLESIAS, A. M. ; MORENO, L. ; MARTINEZ, P.; CALVO, M.D.R.
Evaluating the Accessibility of Three Open-Source Learning Content Management Systems: A Comparative Study , *Computer Applications in Engineering Education*, Vol. 19, Núm. 2, 2011, ESTADOS UNIDOS DE AMERICA.
- JIMENEZ, E.; GOMEZ, J.M.; COLOMO, R.; GARCIA, A.
CARL: a Complex Applications Interoperability Language based on Semantic Technologies for Platform-as-a-Service Integration and Cloud Computing , *Journal of Research and Practice in Information Technology*, Vol. 43, Núm. 3, 2011, pp. 227-245, AUSTRALIA.
- Juan Gómez-Romero; PATRICIO, M. A. ; GARCIA, J. ; MOLINA, J. M.
Ontology-based context representation and reasoning for object tracking and scene interpretation in video, *Expert systems with applications*, Vol. 38, Núm. 6, 2011, pp. 7494-7510, REINO UNIDO.
- Juan Gómez-Romero; PATRICIO, M. A. ; MOLINA, J. M. ; GARCIA, J.
Communication in distributed tracking systems: an ontology-based approach to improve cooperation, *Expert systems*, Vol. 28, Núm. 4, 2011, pp. 288-305, REINO UNIDO.
- LAGARES, A.; LAGARES, M.; COLOMO, R.; GARCIA, A.; GOMEZ, J.M.
DISMON: Using Social Web and Semantic Technologies to Monitor Diseases in Limited Environments , *Journal of Information Technology Research*, Vol. 4, Núm. 1, 2011, pp. 48-59, ESTADOS UNIDOS DE AMERICA.
- LUIS, A.; MOLINA, J. M. ; PATRICIO, M. A.
MIJ2K Optimization using evolutionary multiobjective optimization algorithms, *Expert systems with applications*, Vol. 38, Núm. 9, 2011, pp. 10999-11010, REINO UNIDO.
- LUNA, F.; ESTEBANEZ, C.; LEON, C.; CHAVES, J.M.; NEBRO, A.J.; ALER, R. ; SEGURA, C.; VEGA, M.A.; ALBA, E.; VALLS, J. M. ; MIRANDA, G.; GOMEZ , J.A.
Optimization algorithms for large-scale real-world instances of the frequency assignment problem, *Soft computing*, Vol. 15, Núm. 5, 2011, pp. 975-990, ALEMANIA.
- LUQUE, C. ; VALLS, J. M. ; ISASI, P.
Time series prediction evolving Voronoi regions, *Applied intelligence*, Vol. 34, Núm. 1, 2011, pp. 116-126, ESTADOS UNIDOS DE AMERICA.
- MALIZIA, A.; BELLUCCI, A.; DIAZ, M. P. ; AEDO, I. ; LEVIALDI GHIRON, S.
eStorys: A visual storyboard system supporting back-channel communication for emergencies, *Journal of visual languages and computing*, Vol. 22, Núm. 2, 2011, pp. 150-169, REINO UNIDO.
- MALIZIA, A.; OLSEN, A.K.
Has Everything Been Invented? On Software Development and the Future of Apps, *Computer*, Vol. 44, Núm. 9, 2011, ESTADOS UNIDOS DE AMERICA.
- MALIZIA, A.; OLSEN, K.A.
Automated Personal Assistants, *Computer*, Vol. 44, 2011, ESTADOS UNIDOS DE AMERICA.
- MARTI, E.D.; PATRICIO, M. A. ; MOLINA, J. M.
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Titular: UNIVERSIDAD CARLOS III DE MADRID
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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.
- GUSTAVO RECIO ISASI
Título: Kanpur Genetic Algorithm Laboratory KanGAL, Director del grupo, Professor K. Deb. Tema de investigación: Clustering Multiobjetivo
Centro Externo: IITK, Kanpur, India
País: INDIA
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- JORGE BLASCO ALIS
Título: Prevención de fugas de información
Centro Externo: University of Portsmouth
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- JOSE MARIA DE FUENTES GARCIA ROMERO DE TEJADA
Título: Seguridad en dispositivos de comunicación y cómputo vehiculares
Centro Externo: Universidad de Siegen
País: ALEMANIA
Duración: 01/09/2011 a 31/12/2011.

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

- **PEDRO ISASI VIÑUELA**
Título: Profesor invitado en el Instituto Nacional de Informática y Automática y del laboratorio de Informática fundamental de la Universidad de Lille
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País: FRANCIA
Duración: 01/05/2011 a 30/06/2011.

- **RICARDO ALER MUR**
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- **TELMO AGUSTIN ZARRAONANDIA AYO**
Título: Estancia en la Universidad de Salerno
Centro Externo: Universidad de Salerno
País: ITALIA
Duración: 01/02/2011 a 31/05/2011.

ÁREA DE CONOCIMIENTO: LENGUAJES Y SISTEMAS INFORMÁTICOS

Actividades de investigación

Tesis Doctorales

- Marco metodológico y tecnológico para la gestión del conocimiento organizativo que de soporte al despliegue de buenas prácticas de ingeniería del software
Autores: MORA, J.A.
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Propiedad Industrial/intelectual

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Actividades de formación y movilidad de personal investigador

Estancias en otros centros

- GONZALO GENOVA FUSTER
Título: Models and modeling languages in software engineering. Programa Erasmus de Movilidad de Personal Docente
Centro Externo: Doctorate Seminar, Electrical and Computer Engineering Department, Aristotle University of Thessalon
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