

DEPARTAMENTO DE
INFORMATICA

DEPARTAMENTO DE INFORMÁTICA

Actividades de investigación

Tesis Doctorales

- Accessible Collaborative Learning Environments for Mobile Devices
Autor: CALVO, M.D.R.
Director/Codirectores: ANA IGLESIAS; MORENO, L.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- Aproximación holística a la integración de modelos SPI en entorno microempresa
Autor: SANCHEZ, M.L.
Director/Codirectores: AMESCUA, A. D.; COLOMO, R.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- Compliance Framework for Change Management in Cloud Environments
Autor: DZOMBETA, S.
Director/Codirectores: GOMEZ, J.M.; STANTCHEV, V.; COLOMO, R.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- Creating Planning Portfolios with Predictive Models
Autor: CENAMOR, I.R.
Director/Codirectores: FERNANDEZ, F.; DE LA ROSA, T.E.
Universidad: Universidad Carlos III de Madrid
Año: 2017
- Enfoque sistémico para la creación de un marco metodológico y tecnológico que dé soporte a la mejora o implantación de la I+D+i en pymes
Autor: GARCIA, C.
Director/Codirectores: Sanchez-Segura Maria-Isabel; MEDINA, F.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- FINANCIAL DECISION-MAKING PROCESS BASED ON UNSTRUCTURED DATA SOURCES AND DOMAIN ONTOLOGIES
Autor: RADZIMSKI, M.K.
Director/Codirectores: GARCIA, A.; LOPEZ, J. L.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2017

- **Hacia una representación del conocimiento basada en la percepción**
Autor: PRIETO, L.
Director/Codirectores: AMESCUA, A. D.; COLOMO, R.; STANTCHEV, V.
Universidad: Universidad Carlos III de Madrid
Año: 2017
- **Maturity based approach for ISMS Governance**
Autor: HAUFE, K.
Director/Codirectores: ALVAREZ, J.M.; STANTCHEV, V.; COLOMO, R.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- **Metodología de Simulación Paralela aplicada a Sistemas Multi-Agente en Entornos Virtuales**
Autor: CALVO, O.
Director/Codirectores: MOLINA, J.M.; PATRICIO, M. A.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- **Modelo de Privacidad Digital en Inteligencia Ambiental basado en Sistemas Multiagente**
Autor: LOPEZ, M.D.M.
Director/Codirectores: MOLINA, J.M.; CARBO, Javier
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- **Modelo de requisitos orientado al reúso efectivo (Morore)**
Autor: HURTADO, O.
Director/Codirectores: GENOVA, G.; FRAGA, A.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- **Predicción y selección de características, mediante análisis local de la fiabilidad, para el mercado de valores y su extensión a problemas de clasificación y regresión**
Autor: MARTIN, R.
Director/Codirectores: ALER, R.; GALVAN, I. M.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- **Valoración y Gestión Estratégica de Activos de Proceso Intangibles en Ingeniería del Software**
Autor: RUIZ, R.A.
Director/Codirectores: Sanchez-Segura Maria-Isabel
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: ESCUELA POLITECNICA SUPERIOR
Año: 2017

Proyectos Fin de Carrera

- **CREACIÓN DE UN PORTAL WEB PARA LA GESTIÓN DE FLOTAS DE VEHÍCULOS ELÉCTRICOS**
Director/Codirectores: GONZALEZ, I.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017

- DESARROLLO DE UNA APLICACIÓN PARA EL ALQUILER DE PRODUCTOS ENTRE PARTICULARES
Director/Codirectores: GONZALEZ, I.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- DISEÑO E IMPLEMENTACIÓN DE COMPORTAMIENTOS INTELIGENTES EN STARCRAFT: BROOD WAR
Director/Codirectores: LUIS, N.
Universidad: Universidad Carlos III de Madrid
Año: 2017
- EVALUACIÓN DE OPORTUNIDADES Y AYUDA EN LA TOMA DE DECISIONES DE UNA LICITACIÓN
Director/Codirectores: GONZALEZ, I.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- Gestión de proyectos a través de un Dashboard y la definición de KPIs
Autor: RUEDA, A.B.
Director/Codirectores: MORATO, J. L.
Universidad: Universidad Carlos III de Madrid
Año: 2017
- IMPLEMENTACIÓN DE CASO PRÁCTICO DE UN PROCESO CON UNA PLATAFORMA DE GESTIÓN DATA-CENTRIC DE PROCESOS
Director/Codirectores: GONZALEZ, I.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- PLATAFORMA DE GESTIÓN DE INCIDENCIAS
Director/Codirectores: GONZALEZ, I.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- PROCESO DE ANÁLISIS DE UNA ENTIDAD FINANCIERA CON LA AYUDA DE TECNOLOGÍA CPM
Director/Codirectores: GONZALEZ, I.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- SISTEMA PARA LA GESTIÓN REMOTA DE INCIDENCIAS DE SEGUROS
Director/Codirectores: GONZALEZ, I.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017
- SISTEMA WEB PARA LA GESTIÓN DE UNA CLÍNICA MÉDICA
Director/Codirectores: GONZALEZ, I.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Año: 2017

- Taiga, gestor de proyectos Ágil y Open Source
Autor: BARRAGAN, D.
Director/Codirectores: MORATO, J. L.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2017

Proyectos Fin de Master

- CHECKING THE ENTERPRISE NORMATIVE THROUGH HIVE IN A BIG DATA PLATFORM
Director/Codirectores: CUADRA, M. D.; GONZALEZ, J.A.
Universidad: Escuela Politécnica Superior de la Universidad Carlos III de Madrid
Año: 2017
- Depuración y adecuación de registros del catálogo del archivo de la fundación Pablo Iglesias a Linked Data
Autor: MARTÍN, A.
Director/Codirectores: MORATO, J. L.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS MADRID-PUERTA DE TOLEDO
Año: 2017
- Metodología para la evaluación de paneles en rutas y senderos turísticos. Ejemplo de aplicación
Autor: SERNA, Y.M.
Director/Codirectores: MORATO, J. L.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS MADRID-PUERTA DE TOLEDO
Año: 2017

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas nacionales

- PRIETO, L.; PUERTA, B.; AMESCUA, A. D.
Microservices architecture for multi-dimensional feature recognition using a knowledge representation model, both based on human perception, *Dyna*, Vol. 92, Núm. 3, 2017, pp. 256-257, ESPAÑA.

Publicaciones en revistas científicas internacionales

- ABELLA, M.; SERRANO, E.; Javier Garcia-Blas; GARCÍA, I.; MOLINA, C. de; CARRETERO, J.; DESCO, M.
FUX-Sim: Implementation of a fast universal simulation/reconstruction framework for Xray systems, *PLoS One*, Vol. 12, Núm. 7, 2017, ESTADOS UNIDOS DE AMERICA.
- ABELLA, M.; SERRANO, E.; Javier Garcia-Blas; I. García Barquero; MOLINA, C. de; CARRETERO, J.; DESCO, M.
FUX-Sim: Implementation of a fast universal simulation/reconstruction framework for X-ray systems, *PLoS One*, 2017, pp. 1-22, ESTADOS UNIDOS DE AMERICA.

- ALER, R.; GALVAN, I. M.; RUIZ, J.A.; GUEYMARD, C.
Improving the separation of direct and diffuse solar radiation components using machine learning by gradient boosting, *SOLAR ENERGY*, Vol. 150, 2017, pp. 558-569, ESTADOS UNIDOS DE AMERICA.
- ALIAGA, J.I.; BARREDA, M.; CASTANO, M.A.; DOLZ, M.F.; QUINTANA, E.S.
Adapting concurrency throttling and voltage-frequency scaling for dense eigensolvers, *JOURNAL OF SUPERCOMPUTING*, Vol. 73, Núm. 1, 2017, pp. 29-43, ESTADOS UNIDOS DE AMERICA.
- ALJUMAILY, H.T.A.; LAEFER, D.F.; CUADRA, M. D.
Urban Point Cloud Mining Based on Density Clustering and MapReduce, *JOURNAL OF COMPUTING IN CIVIL ENGINEERING*, Vol. 31, Núm. 5, 2017, ESTADOS UNIDOS DE AMERICA.
- ALONSO, S.; GARCIA-CARBALLEIRA, F.; CALDERON, A.
ComBos: A complete simulator of Volunteer Computing and Desktop Grids, *SIMULATION MODELLING PRACTICE AND THEORY*, Vol. 77, 2017, pp. 197-211, HOLANDA - PAISES BAJOS.
- Alvaro Montero; ZARRAONANDIA, T. A.; DIAZ, M.P.; AEDO, I.
Designing and implementing interactive and realistic augmented reality experiences, *Universal Access in the Information Society*, 2017, ALEMANIA.
- ANGELOV, P.P.; GU, X.; IGLESIAS, J.A.; LEDEZMA, A. I.; SANCHIS DE, M.A.; SIPELE, B.U.O.; RAMEZANI, R.
Cybernetics of the Mind: Learning Individual's Perceptions Autonomously, *IEEE Systems, Man, and Cybernetics Magazine*, Vol. 3, Núm. 2, 2017, pp. 6-17.
- BALDOMINOS, A.; CALLE, F. J.; CUADRA, M. D.
Beyond social graphs: mining patterns underlying social interactions, *PATTERN ANALYSIS AND APPLICATIONS*, Vol. 20, Núm. 1, 2017, pp. 269-285, REINO UNIDO.
- BELLUCCI, A.; AEDO, I.; DIAZ, M.P.
ECCE Toolkit: Prototyping Sensor-Based Interaction, *SENSORS*, Vol. 17, Núm. 3, 2017, SUIZA.
- CAINO, S.; CASCAJO, A.; GARCIA-CARBALLEIRA, F.; CARRETERO, J.
Efficient design assessment in the railway electric infrastructure domain using cloud computing, *INTEGRATED COMPUTER-AIDED ENGINEERING*, Vol. 24, Núm. 1, 2017, pp. 57-72, ESTADOS UNIDOS DE AMERICA.
- CALLE, F. J.; RIVERO, J.; CUADRA, M. D.; ISASI, P.
Extending ACO for fast path search in huge graphs and social networks, *EXPERT SYSTEMS WITH APPLICATIONS*, Vol. 86, 2017, pp. 292-306, ESTADOS UNIDOS DE AMERICA.
- CALVO, M.D.R.; ANA IGLESIAS; CASTAÑO, L.
Evaluation of accessibility barriers and learning features in m-learning chat applications for users with disabilities, *Universal Access in the Information Society*, Vol. 16, Núm. 3, 2017, pp. 593-607, ALEMANIA.
- CASTILLO, E.; CORRALES, D.C.; LASSO, E.; LEDEZMA, A. I.; CORRALES, J.C.

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- DOLZ, M.F.; RIO, D.D.; FERNANDEZ, J.J.; TORQUATI, M.; GARCIA, J.D.; GARCIA-CARBALLEIRA, F.; DANELUTTO, M.
Enabling semantics to improve detection of data races and misuses of lock-free data structures, *CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE*, Vol. 29, Núm. 15, 2017, REINO UNIDO.
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Libros

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Propiedad Industrial/intelectual

- *Inventores*: DESCO, M.; ABELLA, M.; MOLINA, C. de; I. García Barquero; SERRANO, E.; Javier García-Blas; CARRETERO, J.
FUX-SIM
Tipo: PROPIEDAD INTELECTUAL
Titular: UNIVERSIDAD CARLOS III DE MADRID
Número Registro: **16/2017/7105**
Fecha Solicitud: 24/05/2017
- *Inventores*: DESCO, M.; ABELLA, M.; MOLINA, C. de; SERRANO, E.; Javier García-Blas; CARRETERO, J.
RapTor
Tipo: PROTECCIÓN DE SOFTWARE
Titular: UNIVERSIDAD CARLOS III DE MADRID
Número Registro: **16/2017/7104**
Fecha Solicitud: 24/05/2017
- *Inventores*: PERIS, P.; MARTIN, H.; Carmen Camara
ECGrand: Generador de números aleatorios basado en registros cardiacos
Tipo: PROTECCIÓN DE SOFTWARE
Titular: UNIVERSIDAD CARLOS III DE MADRID

Número Registro: 16/2018/5

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Actividades de cooperación internacional

Acciones integradas y bilaterales

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- LEDEZMA, A. I.; SANCHIS DE, M.A.
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Estancias en otros centros

- ALVARO MONTERO MONTES
Título: Exploración de las Últimas Tecnologías de Realidad Aumentada para el Diseño y Evaluación del Proceso de Autoría Centrados en Usuarios Finales
Centro Externo: Human Interface Technology Laboratory New Zealand (HIT Lab NZ) ? Canterbury University
País: NUEVA ZELANDA
Duración: 01/05/2017 a 31/07/2017.
- GERMAN LENIN DUGARTE PEÑA
Título: Simulation modeling of dynamic decision making processes regarding intangible process assets
Centro Externo: Carnegie Mellon University
País: ESTADOS UNIDOS DE AMERICA
Duración: 15/09/2017 a 22/12/2017.
- HARITH TAHA ABDULLA ALJUMAILY
Título: Estancia de investigación en la universidad de nueva york
Centro Externo: Center for Urban Science and Progress / New York University
País: ESTADOS UNIDOS DE AMERICA
Duración: 01/05/2017 a 31/12/2017.

- **JOSE CARLOS GONZALEZ DORADO**
Título: Estancia con la profesora Manuela Veloso
Centro Externo: Carnegie Mellon University
País: ESTADOS UNIDOS DE AMERICA
Duración: 01/09/2017 a 31/12/2017.

- **JUAN MIGUEL GOMEZ BERBIS**
Título: Semantic Technology Institute (STI), Universidad de Innsbruck
Centro Externo: Semantic Technology Institute (STI)
País: AUSTRIA
Duración: 01/01/2017 a 31/01/2017.

- **MARIA ISABEL SANCHEZ SEGURA**
Título: Systems methodologies and its use by XXI century professionals
Centro Externo: University of North Carolina at Charlotte
País: ESTADOS UNIDOS DE AMERICA
Duración: 01/08/2017 a 31/08/2017.

- **MARIA PAZ SESMERO LORENTE**
Título: Estancia de investigación postdoctoral
Centro Externo: Department of Electrical and Electronic Engineering, University of Cagliari
País: ITALIA
Duración: 15/06/2017 a 15/09/2017.

- **SILVINA CAINO LORES**
Título: Research Aide Appointment
Centro Externo: ARGONNE NATIONAL LABORATORY
País: ESTADOS UNIDOS DE AMERICA
Duración: 28/08/2017 a 01/12/2017.

- **SILVINA CAINO LORES**
Título: Future directions on the optimization of hydrogeological simulations (ECOST-STSM-IC1305-270117-082445)
Centro Externo: UNIVERSITE DE NEUCHATEL
País: SUIZA
Duración: 27/01/2017 a 10/02/2017.

- **TERESA ONORATI**
Título: Comment Analytics: Leveraging Big Unstructured Data to Understand Spatial and Temporal Variations in Public Response to Government Policy
Investigador Externo: MACEARCHREN, A.
Centro Externo: GeoVISTA Center, Department of Geography, The Pennsylvania State University
País: ESTADOS UNIDOS DE AMERICA
Duración: 01/04/2017 a 30/04/2017.