DEPARTAMENTO DE INGENIERIA TELEMATICA

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Actividades de investigación

Tesis Doctorales

- Conectando los vehículos a Internet en el sistema de transporte inteligente estandarizado por el ETSI
  Autores: SANDONIS, V.
  Director/Codirectores: CALDERON, M.C.; SOTO, I.
  Año: 2014

- Contribution to machine to machine architectures for smart grids
  Autores: LOPEZ, G.I.
  Director/Codirectores: MORENO, J.I.
  Año: 2014

- Convergencia de tecnologías ópticas y ethernet en lan, man y san: nuevas arquitecturas, análisis de prestaciones y eficiencia energética.
  Autores: RODRIGUEZ DE LOS SANTOS, G.
  Director/Codirectores: HERNANDEZ, J.A.
  Año: 2014

- Eco-driving : Ahorro de energía basado en el comportamiento del conductor
  Autores: CORCOBA, V.
  Director/Codirectores: MUÑOZ, M.
  Año: 2014

- Game theoretic approach to interdomain routing
  Autores: LUTU, A.
  Director/Codirectores: BAGNULO, M.G.
  Año: 2014

- Measurements and Analysis of Online Social Networks
  Autores: GONZALEZ, R.
  Director/Codirectores: GUERRERO, M.C.; CUEVAS, R.
  Año: 2014

- Service architecting and dynamic composition in pervasive smart ecosystems for the internet of things based on sensor network technology
  Autores: FAMILIAR, M.S.
  Director/Codirectores: GARCIA-RUBIO, C. ; MARTÍNEZ, J.F.
  Año: 2014

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas nacionales

- CANO, J.A.; GARCÍA-VALLS, M.; BASANTA, P.
  Marco de componentes con soporte para reemplazo dinámico y seguro en sistemas de tiempo real = Component Framework for supporting safe and dynamic replacement in real-time systems, *Revista iberoamericana de automática e informática industrial*, Vol. 11, Núm. 1, 2014, pp. 98-108, ESPAÑA.

- CORCOBA, V.; MUÑOZ, M.
  ASGA: Algorithm to obtain the optimal average speed on a route, *Revista iberoamericana de automática e informática industrial*, Vol. 11, Núm. 4, 2014, pp. 435-443, ESPAÑA.

- DELGADO, C.; MUÑOZ-MERINO, PEDRO J. ; MUÑOZ, M.
  Extendiendo Google Course Builder mediante Proyectos Realistas en un curso de master, *VAEP-RITA*, Vol. 2, Núm. 1, 2014, pp. 11-18, ESPAÑA.

Publicaciones en revistas científicas internacionales

- ALARIO, C.; PEREZ, M.D.M.; CORMIER, D.; DELGADO, C.
  Proposal for a Conceptual Framework for Educators to Describe and Design MOOCs, *Journal of universal computer science*, Vol. 20, Núm. 1, 2014, pp. 6-23, AUSTRIA.

- ALARIO, C.; PEREZ, M.D.M.; DELGADO, C.; PARADA, H.A.; MUÑOZ, M.
  Delving into participants' profiles and use of social tools in MOOCs, *IEEE transactions on learning technologies*, Vol. 7, Núm. 3, 2014, pp. 260-266, ESTADOS UNIDOS DE AMERICA.

- ARIAS FISTEUS, J. ; FERNANDEZ, N.; SANCHEZ, L. ; FUENTES, D.
  Ztreamy: a middleware for publishing semantic streams on the web, *Journal of web semantics*, Vol. 25, Núm. Marzo, 2014, pp. 16-23, PAISES BAJOS.

- ARJONA, J.; FERNANDEZ, A.
  Bisection (Band) width of product networks with application to data centers, *IEEE transactions on parallel and distributed systems* , Vol. 25, Núm. 3, 2014, pp. 570-580, ESTADOS UNIDOS DE AMERICA.

- BAGNULO, M.G.; BURBRIDGE, T.; CRAWFORD, S.; EARDLEY, P.; SCHOENWAELDER, J.; TRAMMELL, B.
  Building a Standard Measurement Platform, *IEEE Communications magazine*, Vol. 52, Núm. 5, 2014, pp. 164-172, ESTADOS UNIDOS DE AMERICA.

- BANCHS, A.; OLIVA, A.; EZNARRIAGA, L.; KOWALSKI, D.R.; SERRANO, P.
  Performance Analysis and Algorithm Selection for Reliable Multicast in IEEE 802.11aa Wireless LAN, *IEEE Transactions on Vehicular Technology*, Vol. 63, Núm. 8, 2014, pp. 3875-3891, ESTADOS UNIDOS DE AMERICA.

- BANCHS, A.; PRABHAKARAN, B.
  Guest editorial "Special Section on Wireless Mobile and Multimedia Network", *Pervasive and Mobile Computing*, Vol. 11, 2014, pp. 1-2, HOLANDA - PAISES BAJOS.

- BASANTA, P. ; GARCÍA-VALLS, M.
  Resource management policies for real-time Java remote invocations, *Journal of parallel and distributed computing*, Vol. 74, Núm. 1, 2014, pp. 1930-1944, ESTADOS UNIDOS DE AMERICA.

- BASANTA, P. ; GARCÍA-VALLS, M.
  A simple distributed garbage collector for distributed real-time Java, *Journal of supercomputing*, Vol. 70, Núm. 3, 2014, pp. 1588-1616, HOLANDA - PAISES BAJOS.

- BASANTA, P. ; GARCÍA-VALLS, M.
  A distributed Real-Time Java-centric architecture for industrial systems, *IEEE Transactions on Industrial Informatics*, Vol. 10, Núm. 1, 2014, pp. 27-34, ESTADOS UNIDOS DE AMERICA.

- BASANTA, P. ; GARCÍA-VALLS, M.; BAZA, M.
  A simple data-muling protocol, *IEEE Transactions on Industrial Informatics*, Vol. 10, Núm. 2, 2014, pp. 895-902, ESTADOS UNIDOS DE AMERICA.

- BERNARDOS, C.J.; OLIVA, A.; SERRANO, P.; BANCHS, A.; CONTRERAS, L. M. ; JIN, H.; ZUÑIGA, J.C.
  An architecture for software defined wireless networking, *IEEE wireless communications*, Vol. 21, Núm. 3, 2014, pp. 52-61, ESTADOS UNIDOS DE AMERICA.

- CABALLERO, D.; VAN RIESEN, S.A.N.; ALVAREZ, S.; NUSSBAUM, M.; DE JONG, T.; ALARIO, C.
  The effects of whole-class interactive instruction with Single Display Groupware for Triangles, *Computers and Education*, Vol. 70, Núm. January, 2014, pp. 203-211, HOLANDA - PAISES BAJOS.

- CABARCOS, P. A.; ALMENAREZ, F. ; GÓMEZ, F.; MARIN, A.
  To Federate or Not To Federate: A Reputation-Based Mechanism to Dynamize Cooperation in Identity Management, *Wireless Personal Communications*, Vol. 75, Núm. 3, 2014, pp. 1769-1786, HOLANDA - PAISES BAJOS.

- CANO, J.A.; GARCÍA-VALLS, M.
  Scheduling component replacement for timely execution in dynamic systems, *Software, practice and experience*, Vol. 44, Núm. 8, 2014, pp. 889-910, REINO UNIDO.

- CORCOBA, V.; MUÑOZ, M.
  Discovering regions where users drive inefficiently on regular journeys, *IEEE Transactions on Intelligent Transportation Systems*, Vol. 16, Núm. 1, 2014, pp. 221-234, ESTADOS UNIDOS DE AMERICA.

- CUEVAS, A.; URUEÑA, M.; DE VECIANA, G.; CUEVAS, R.; CRESPI, N.
  Dynamic data-centric storage for long-term storage in wireless sensor and actor networks, *Wireless Networks*, Vol. 20, Núm. 1, 2014, pp. 141-153, HOLANDA - PAISES BAJOS.

- CUEVAS, R.; GONZALEZ, R.; CUEVAS, A.; GUERRERO, M.C.
  Understanding the locality effect in Twitter: Measurement and analysis, *Personal and ubiquitous computing*, Vol. 18, Núm. 2, 2014, pp. 397-411, REINO UNIDO.

- CUEVAS, R.; KRYCZKA, M.; GONZALEZ, R.; CUEVAS, A.; AZCORRA, A.
  TorrentGuard: Stopping scam and malware distribution in the BitTorrent ecosystem, *Computer networks*, Vol. 59, 2014, pp. 77-90, HOLANDA - PAISES BAJOS.

- CUEVAS, R.; LAOUTARIS, N.; YANG, X.; SIGANOS, G.; RODRIGUEZ, P.
  Bittorrent locality and transit trafficreduction: When, why, and at what cost?, *IEEE transactions on parallel and distributed systems* , Vol. 25, Núm. 5, 2014, pp. 1177-1189, ESTADOS UNIDOS DE AMERICA.

- DOMZAL, J.; WÓJCIK, R.; JAJSZCZYK, A.; SANTIAGO DEL RÍO, P.M.; HERNANDEZ, J.A.; ARACIL, J.
  p-Cycle configuration possibilities over DRDA networksp-Cycle configuration possibilities over DRDA networks, *Transactions on Emerging Telecommunications Technologies*, 2014.

- ESTEVEZ-AYRES, I.; BASANTA, P. ; GARCÍA-VALLS, M.
  Composing and scheduling service-oriented applications in time-triggered distributed real-time Java environments, *Concurrency and computation*, Vol. 26, Núm. 1, 2014, pp. 152-193, REINO UNIDO.

- FAMILIAR, M.S.; MARTINEZ, J.F.; GARCIA-RUBIO, C.
  Service architecting and dynamic composition in pervasive smart ecosystems for the internet of things based on sensor network technology, *Journal of ambient intelligence and smart environments*, Vol. 6, Núm. 3, 2014, pp. 331-333, HOLANDA - PAISES BAJOS.

- FERNANDEZ, M.C.; CRUZ, V.; DELGADO, C.; MORAN, D.
  PhyMEL-WS: Physically experiencing the virtual world. Insights into mixed reality and flow state on board a wheelchair simulator, *Journal of universal computer science*, Vol. 20, Núm. 12, 2014, pp. 1629-1648, AUSTRIA.

- FERNANDEZ, N.; ARIAS FISTEUS, J. ; SANCHEZ, L.
  Comparative evaluation of link-based approaches for candidate ranking in link-to-Wikipedia systems, *Journal of Artificial Intelligence Research*, Vol. 49, 2014, pp. 733-773, ESTADOS UNIDOS DE AMERICA.

- FUENTE, L.; PEREZ, M.D.M.; HERNANDEZ, D.; PARDO, A. ; BLAT, J.A.; DELGADO, C.
  Technological support for the enactment of collaborative scripted learning activities across multiple spatial locations, *Future generation computer systems*, Vol. 31, 2014, pp. 223-237, HOLANDA - PAISES BAJOS.

- FUENTES, D.; SANCHEZ, L. ; CUADRA, A.; CUTANDA, M.
  A RESTful and semantic framework for data integrationA RESTful and semantic framework for data integration, *Software, practice and experience*, 2014, REINO UNIDO.

- GARCIA, A.; SERRANO, P.; BANCHS, A.
  Energy-Efficient Optimization for Distributed Opportunistic Scheduling, *IEEE Communications letters*, Vol. 18, Núm. 6, 2014, pp. 1083-1086, ESTADOS UNIDOS DE AMERICA.

- GARCIA, J. J. ; HERNANDEZ, J.A.; SEOANE, I. ; VIDAL, I.
  On the effect of sudden data bursts in the upstream channel of Ethernet PONs employing IPACT under the gated-service discipline, *Optical switching and networking*, Vol. 13, 2014, pp. 94-102, HOLANDA - PAISES BAJOS.

- GARCÍA-VALLS, M.; BASANTA, P.
  Comparative analysis of two different middleware approaches for reconfiguration of distributed real-time systems, *Journal of systems architecture*, Vol. 60, Núm. 2, 2014, pp. 221-233, HOLANDA - PAISES BAJOS.

- GARCÍA-VALLS, M.; BASANTA, P. ; PABLO, M.; ESTEVEZ, E.
  A bi-dimensional QoS model for SOA and real-time middleware, *Computer systems science and engineering*, Vol. 29, Núm. 5, 2014, pp. 315-326, REINO UNIDO.

- GARCÍA-VALLS, M.; CUCINOTTA, T.; LU, C.
  Challenges in real-time virtualization and predictable cloud computing, *Journal of systems architecture*, Vol. 60, Núm. 9, 2014, pp. 726-740, HOLANDA - PAISES BAJOS.

- GARCÍA-VALLS, M.; URIOL, P.; IBAÑEZ, F.; BASANTA, P.
Low complexity reconfiguration for real-time data-intensive service-oriented applications, *Future generations computer systems*, Vol. 37, 2014, pp. 191-200, PAISES BAJOS.

- GIUST, F.; BERNARDOS, C.J.; OLIVA, A.
Analytic Evaluation and Experimental Validation of a Network-Based IPv6 Distributed Mobility Management Solution, *IEEE Transactions on Mobile Computing*, Vol. 13, Núm. 11, 2014, pp. 2484-2497, ESTADOS UNIDOS DE AMERICA.

- GONZALEZ, R.; MUÑOZ, A.; HERNANDEZ, J.A.; CUEVAS, R.
On the tweet arrival process at Twitter: analysis and applications, *Transactions on Emerging Telecommunications Technologies*, Vol. 25, Núm. 2, 2014, pp. 273-282.

- GRAMAGLIA, M.; CALDERON, M.C.; BERNARDOS, C.J.
ABEONA monitored traffic: VANET-assisted cooperative traffic congestion forecasting, *IEEE Vehicular Technology Magazine*, Vol. 9, Núm. 2, 2014, pp. 50-57, ESTADOS UNIDOS DE AMERICA.

- GRAMAGLIA, M.; FIORE, M.; CALDERON, M.C.
Measurement-Based Modeling of Interarrivals for the Simulation of Highway Vehicular Networks, *IEEE Communications letters*, Vol. 18, Núm. 12, 2014, pp. 2181-2184, ESTADOS UNIDOS DE AMERICA.

- GUIMARAES, C.; CORUJO, D.; OLIVA, A.; OHBA, Y.; AGUIAR, R.L.
Multicast group membership management in media independent handover services, *Computer networks*, Vol. 62, 2014, pp. 55-68, HOLANDA - PAISES BAJOS.

- GUTIERREZ, I.; CRESPO, R. M.; DELGADO, C.
Adapting an awareness tool for massive courses: The case of classON, *Journal of universal computer science*, Vol. 20, Núm. 1, 2014, pp. 24-38, AUSTRIA.

- HAN, X.; CUEVAS, A.; CRESPI, N.; CUEVAS, R.; HUANG, X.
On exploiting social relationship and personal background for content discovery in P2P networks, *Future generations computer systems*, Vol. 40, 2014, pp. 17-29, PAISES BAJOS.

- IBAÑEZ, M. B. ; DELGADO, C.; CALLAGHAN, V.
Immersive Education: What does the Future Hold?, *Journal of universal computer science*, Vol. 20, Núm. 12, 2014, pp. 1605-1607, AUSTRIA.

- IBAÑEZ, M. B. ; DI SERIO, A.; DELGADO, C.
Gamification for engaging computer science students in learning activities: A case study, *IEEE transactions on learning technologies*, Vol. 7, Núm. 3, 2014, pp. 291-301, ESTADOS UNIDOS DE AMERICA.

- IBAÑEZ, M. B. ; DI SERIO, A.; VILLARAN, D.; DELGADO, C.
Augmented Reality-Based Simulators as Discovery Learning Tools: An Empirical Study , *IEEE Transactions on Education*, Vol. PP, Núm. 99, 2014, ESTADOS UNIDOS DE AMERICA.

- IBAÑEZ, M. B. ; DI SERIO, A.; VILLARAN, D.; DELGADO, C.
Experimenting with electromagnetism using augmented reality: Impact on flow student experience and educational effectiveness, *Computers and Education*, Vol. 71, 2014, pp. 1-13, HOLANDA - PAISES BAJOS.

- KUCIRKOVA, N.; MESSER, D.; SHEEHY, K.; FERNANDEZ, M.C.
Children's engagement with educational iPad apps: Insights from a Spanish classroom, *Computers and Education*, Vol. 71, 2014, pp. 175-184, HOLANDA - PAISES BAJOS.

- LOPEZ, G.I.; CUSTODIO, V.; HERRERA, F.J.; MORENO, J.I.
Machine-to-machine communications infrastructure for smart electric vehicle charging in private parking lots, *International journal of communication systems*, Vol. 27, Núm. 4, 2014, pp. 643-660, REINO UNIDO.

- LOPEZ, G.I.; MORENO, J.I.; AMARIS, H.E.; SALAZAR, F.
Paving the road toward Smart Grids through large-scale advanced metering infrastructures, *Electric Power Systems Research*, Vol. 120, 2014, pp. 194-205, HOLANDA - PAISES BAJOS.

- LOPEZ, G.I.; MOURA, P.; MORENO, J.I.; CAMACHO, J.M.
Multi-Faceted Assessment of a Wireless Communications Infrastructure for the Green Neighborhoods of the Smart Grid , *Energies*, Vol. 7, Núm. 5, 2014, pp. 3453-3483, NACION DESCONOCIDA.

- MANZANO, M.; URUEÑA, M.; SUZNJEVIC, M.; CALLE, E.; HERNANDEZ, J.A.; MATIJASEVIC, M.
Dissecting the protocol and network traffic of the OnLive cloud gaming platform, *Multimedia systems*, Vol. 20, Núm. 5, 2014, pp. 451-470, ALEMANIA.

- MEO, M.; LE ROUZIC, E.; CUEVAS, R.; GUERRERO, M.C.
Research challenges on energy-efficient networking design, *Computer communications*, Vol. 50, 2014, pp. 187-195, HOLANDA - PAISES BAJOS.

- MEO, M.; LE ROUZIC, E.; CUEVAS, R.; GUERRERO, M.C.
Computer communications special issue on Green Networking, *Computer communications*, Vol. 50, 2014, pp. 1-2, HOLANDA - PAISES BAJOS.

- MUÑOZ-MERINO, PEDRO J. ; FERNANDEZ, M.; MUÑOZ, M.; DELGADO, C.
Motivation and emotions in competition systems for education: An empirical study, *IEEE Transactions on Education*, Vol. 57, Núm. 3, 2014, pp. 182-187, ESTADOS UNIDOS DE AMERICA.

- OLIVA, A.; BANCHS, A.; SERRANO, P.; ZDARSKY, F.A.
Providing throughput guarantees in heterogeneous wireless mesh networks, *Wireless communications and mobile computing*, Vol. 14, Núm. 4, 2014, pp. 435-449, REINO UNIDO.

- PEREZ, M.D.M.; ALARIO, C.; DELGADO, C.
FLINN: A framework to characterize technology enhanced formal, non-formal and informal learning situations, *International journal of human capital and information technology professionals*, Vol. 5, Núm. 2, 2014, pp. 38-51, ESTADOS UNIDOS DE AMERICA.

- PEREZ, M.D.M.; HERNANDEZ, D.; SANTOS, P.; DELGADO, C.; BLAT, J.
Augmenting reality and formality of informal and non-formal settings to enhance blended learning, *IEEE transactions on learning technologies*, Vol. 7, Núm. 2, 2014, pp. 118-131, ESTADOS UNIDOS DE AMERICA.

- ROSEN, T.; NUSSBAUM, M.; ALARIO, C.; READI, F.; HERNANDEZ, J.
Silent collaboration with large groups in the classroom, *IEEE transactions on learning technologies*, Vol. 7, Núm. 2, 2014, pp. 197-203, ESTADOS UNIDOS DE AMERICA.

- ROST, P.; BERNARDOS, C.J.; DE DOMENICO, A.; DI GIROLAMO, M.; LALAM, M.; MAEDER, A.; SABELLA, D.; WUEBBEN, D.
Cloud technologies for flexible 5G radio access networks, *IEEE Communications magazine*, Vol. 52, Núm. 5, 2014, pp. 68-76, ESTADOS UNIDOS DE AMERICA.

- RUIZ, A.; VEGA, G.; ASENSIO, J.I.; GOMEZ, E.; BOTE, M.L.; ALARIO, C.
  SEEK-AT-WD: A Social-Semantic Infrastructure to Sustain Educational ICT Tool Descriptions in the Web of Data, *Educational Technology & Society*, Vol. 17, Núm. 2, 2014, pp. 321-332, ALEMANIA.

- SALVADOR, J.P.; MANCUSO, V.; SERRANO, P.; GRINGOLI, F.; BANCHS, A.
  VoIPiggy: Analysis and Implementation of a Mechanism to Boost Capacity in IEEE 802.11 WLANs Carrying VoIP Traffic, *IEEE Transactions on Mobile Computing*, Vol. 13, Núm. 7, 2014, pp. 1640-1652, ESTADOS UNIDOS DE AMERICA.

- SALVADOR, P.; COMINARDI, L.; GRINGOLI, F.; SERRANO, P.
  A First Implementation and Evaluation of the IEEE 802.11aa Group Addressed Transmission Service, *ACM SIGCOMM computer communication review*, Vol. 44, Núm. 1, 2014, pp. 36-41, ESTADOS UNIDOS DE AMERICA.

- SANCHEZ, M.I.; GRAMAGLIA, M.; BERNARDOS, C.J.; OLIVA, A.; CALDERON, M.C.
  On the implementation, deployment and evaluation of a networking protocol for VANETs: The VARON case, *Ad Hoc Networks*, Vol. 19, 2014, pp. 9-27, HOLANDA - PAISES BAJOS.

- SANCHEZ, R.; HERNANDEZ, J.A.; LARRABEITI, D.
  Troubleshooting PON networks effectively with carrier-grade ethernet and WDM-PON, *IEEE Communications magazine*, Vol. 52, Núm. 2, 2014, pp. 7-13, ESTADOS UNIDOS DE AMERICA.

- SANDONIS, V.; SOTO, I.; CALDERON, M.C.; FERNÁNDEZ, I.; VIDAL, I.
  CATMISS: context-aware transparent mobility for IMS services, *Multimedia Tools and Applications*, Vol. 68, Núm. 1, 2014, ESTADOS UNIDOS DE AMERICA.

- SANDONIS, V.; SOTO, I.; CALDERON, M.C.; URUEÑA, M.
  Vehicle to Internet communications using the ETSI ITS GeoNetworking protocol, *Transactions on Emerging Telecommunications Technologies*, 2014, pp. 1-16.

- URUEÑA, M.; MACHNÍK, P.; NIEMIEC, M.; STOIANOV, N.
  Security architecture for law enforcement agencies, *Multimedia Tools and Applications*, Vol. 73, Núm. 2, 2014, pp. 1-19, ESTADOS UNIDOS DE AMERICA.

- URUEÑA, M.; MUÑOZ, A.; LARRABEITI, D.
  Analysis of privacy vulnerabilities in single sign-on mechanisms for multimedia websites , *Multimedia Tools and Applications*, Vol. 68, Núm. 1, 2014, pp. 159-176, ESTADOS UNIDOS DE AMERICA.

- VIDAL, I. ; VALERA, F.; DIAZ, M.A.; BAGNULO, M.G.
  Design and Practical Deployment of a Network-Centric Remotely Piloted Aircraft System, *IEEE Communications magazine*, Vol. 52, Núm. 10, 2014, pp. 22-29, ESTADOS UNIDOS DE AMERICA.

- WANG, L.; ZHANG, F.; ARJONA, J.; VASILAKOS, A.V.; ZHENG, K.; HOU, C.; LI, D.; LIU, Z.
  GreenDCN: A General Framework for Achieving Energy Efficiency in Data Center Networks, *IEEE Journal on Selected Areas in Communications*, Vol. 32, Núm. 1, 2014, pp. 4-15, ESTADOS UNIDOS DE AMERICA.

Monografías Científicas

- GARCÍA-VALLS, M.; PAUTET, L.; CUCINOTTA, T.
  REACTION 2014, 3rd IEEE International Workshop on Real-time and distributed computing in emerging applications. Actas del congreso, *Escuela Politécnica Superior de la Universidad Carlos III de Madrid*, ESPAÑA, 2014.

- RESING, C.; FREITAS, S.; LEY, T.; MUÑOZ-MERINO, PEDRO J.
Open Learning and Teaching in Educational Communities : 9th European Conference on Technology Enhanced Learning, EC-TEL 2014, Graz, Austria, September 16-19, 2014, Proceedings, *SPRINGER* , SUIZA, 2014.

Ponencias y Comunicaciones a congresos

- ALARIO, C.; Derick Leony; ESTEVEZ-AYRES, I.; PEREZ, M.D.M.; GUTIERREZ, I.; DELGADO, C.
Adaptive planner for facilitating the management of tasks in MOOCs; en: Actas del V Congreso Internacional sobre Calidad y Accesibilidad de la Formación Virtual (CAFVIR 2014), UNIVERSIDAD GALILEO, GUATEMALA, 2014.

- ALARIO, C.; PEREZ, M.D.M.; DELGADO, C.
Are we all on the same boat? Coordinating stakeholders for the design of MOOCs; en: Open Learning and Teaching in Educational Communities: 9th European Conference on Technology Enhanced Learning, EC-TEL 2014, Graz, Austria, September 16-19, 2014, Proceedings, Springer International Publishing Switzerland, SUIZA, 2014.

- ALARIO, C.; PEREZ, M.D.M.; DELGADO, C.; GUTIERREZ, I.; Derick Leony; PARADA, H.A.
Designing your first MOOC from scratch: recommendations after teaching Digital Education of the Future; en: Experiences and best practices in and around MOOCs (Special issue: EMOOCS 2014 conference) , Open Education Europa, 2014.

- ARIAS FISTEUS, J. ; FERNANDEZ, N.; SANCHEZ, L. ; FUENTES, D.
Publication of RDF Streams with Ztreamy; en: ESWC Satellite Events 2014, SPRINGER , 2014.

- ARJONA, J.; CHATZIPAPAS, A.; FERNÁNDEZ, A.; MANCUSO, V.
A measurement-based analysis of the energy consumption of data center servers, 5th international conference on Future energy systems (ACM e-Energy) , *Cambridge*, REINO UNIDO, 2014.

- ARJONA, J.; FERNÁNDEZ , A.; MOSTEIRO, M.A.; THRAVES, C.; WANG, L.
Power-Efficient Assignment of Virtual Machines to Physical Machines, Adaptive Resource Management and Scheduling for Cloud Computing:First International Workshop, ARMS-CC 2014, *París*, FRANCIA, 2014.

- ARJONA, J.; FERNÁNDEZ, A.
JAM: a tabu-based two-stage simulated annealing algorithm for the multidimensional arrangement problem, 9th International Workshop on Hybrid Metaheuristics, HM 2014, *HAMBURGO*, ALEMANIA, 2014.

- CORUJO, D.; AGUIAR, R.L.; VIDAL, I. ; GARCIA, J. J. ; PENTIKOUSIS, K.
Research challenges towards a managed information-centric network of things; en: 2014 European Conference on Networks and Communications (EuCNC 2014), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, ESTADOS UNIDOS DE AMERICA, 2014.

- DELGADO, C.
Formas y formatos de aprendizaje digital de base académica en España, Brasil y Portugal, XV Encuentro de Rectores Grupo Tordesillas, *Lisboa*, PORTUGAL, 2014.

- DELGADO, C.
Do We Need New Learning Environments and Scenarios?, I Forum Internacional de Educación y Tecnología, *TARRAGONA*, ESPAÑA, 2014.

- DELGADO, C.
What about the Competences of Educators in the New Era of Digital Education?, KEYCIT 2014: Key Competences in Informatics and ICT*, Postdam*, ALEMANIA, 2014.

- DELGADO, C.
Explorando el espacio educativo de MOOCs y SPOCs, 2º seminario de la Cátedra UNESCO-UC3M Educación Digital Escalable para Todos, ESPAÑA, 2014.

- DELGADO, C.
Blended learning: Innovation on Campus, edX Global Forum*, Delft*, HOLANDA - PAISES BAJOS, 2014.

- DELGADO, C.
¿eLearning: Solución o Amenaza para la Educación Superior?, Las TIC en el nuevo contexto de la educación superior*, BARCELONA*, ESPAÑA, 2014.

- DELGADO, C.
¿Qué son los MOOCs?, XII Jornadas CRAI: MOOCs & CRAIs*, BARCELONA*, ESPAÑA, 2014.

- DELGADO, C.
Looking for New Efficient & Effective Educational Bundles, Massively Open Online Courses, Current State and Perspectives*, Dagstuhl* , ALEMANIA, 2014.

- DELGADO, C.
Cuando la Tecnología Digital toca la Educación, Diálogos A4U: Las TIC en los Campus: ¿Evolución o Revolución?*, BARCELONA*, ESPAÑA, 2014.

- DELGADO, C.; CARCHIDI, D.; DILLENBOURG, P.; GILLIOT, J.M.; NG, C.; WOODGATE, A.
How to Promote and Support MOOCs; en: Towards an Outcome-based Discovery and Recommendation of MOOCs using moocrank, P.A.U. Education, ESPAÑA, 2014.

- DELGADO, C.; IBAÑEZ, M. B. ; FERNANDEZ, M.C.; MUÑOZ-MERINO, PEDRO J. ; ESTEVEZ-AYRES, I.; CRESPO, R. M.; ALARIO, C.; PEREZ, M.D.M.
A Multidimensional Analysis of Trends in Educational Technology; en: Proceedings of the 44th Annual Frontiers in Education, FIE 2014, (44), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, , 2014.

- DELGADO, C.; MUÑOZ-MERINO, PEDRO J. ; MUÑOZ, M.; ALARIO, C.; PEREZ, M.D.M.; PARADA, H.A.; RUIPEREZ, J.A.; SANZ, J.L.
Experiences of Running MOOCs and SPOCs at UC3M, IEEE Global Engineering Education Conference, EDUCON 2014*, Estambul*, TURQUIA, 2014.

- DELGADO, C.; MUÑOZ-MERINO, PEDRO J. ; RUIPEREZ, J.A.; AUGER, M.A.; BRIZ, S.; DE CASTRO, V.; SANTALLA, S. N.
A Successful Learning Experience using SPOCs, Learning With MOOCs: A Practitioner's Workshop*, Cambridge*, ESTADOS UNIDOS DE AMERICA, 2014.

- DELGADO, C.; SANCHEZ, R.
MOOCing at UC3M, EUA Annual Conference 2014. Changing Landscapes in Learning and Teaching*, Bruselas*, BÉLGICA, 2014.

- Derick Leony; MUÑOZ-MERINO, PEDRO J. ; PARDO, A. ; RUIPEREZ, J.A.; ARELLANO, D.; DELGADO, C.
Rule-based detection of emotions in the Khan Academy platform , International Workshop on Massive Open Online Courses, *Antigua*, GUATEMALA, 2014.

- DIAZ, D. ; CABARCOS, P. A.; GUERRERO, R. S.; ALMENAREZ, F. ; MARIN, A.
Elastic participatory sensing systems enabling cooperative meta sensors with consumer devices; en: 2014 IEEE International Conference on Consumer Electronics (ICCE 2014), IEEE Computer Society., ESTADOS UNIDOS DE AMERICA, 2014.

- FERNANDEZ, N.; ARIAS FISTEUS, J. ; SANCHEZ, L. ; FUENTES, D.; CORCHO, O.
RDSZ: An Approach for Lossless RDF Stream Compression ; en: The Semantic Web: Trends and Challenges, SPRINGER , 2014.

- GARCÍA-LOZANO, E.; CAMPO, C. ; GARCIA-RUBIO, C. ; CORTES, A.
Bandwidth-Efficient Techniques for Information Dissemination in Urban Vehicular Networks, Eleventh ACM International Symposium on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks (PE-WASUN 2014)*, Montreal*, CANADA, 2014.

- GARCÍA-LOZANO, E.; WOERNDL, W.; CAMPO, C.
A New Traffic Information Service for Smart Consumer Devices, Las Vegas, ESTADOS UNIDOS DE AMERICA, 2014.

- GARCÍA-VALLS, M.; PÉREZ, D.; MIRANDOLA, R.
Time-Sensitive Adaptation in CPS through Run-Time Configuration Generation and Verification; en: Computer Software and Applications Conference (COMPSAC), 2014 IEEE 38th Annual , (38), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2014.

- GUTIERREZ, I.; ALARIO, C.; PEREZ, M.D.M.; Derick Leony; DELGADO, C.
Scaffolding self-learning in MOOCs; en: Proceedings of the European MOOC Stakeholder Summit 2014 , P.A.U. Education, ESPAÑA, 2014.

- GUTIERREZ, I.; Derick Leony; ALARIO, C.; PEREZ, M.D.M.; DELGADO, C.
Towards an Outcome-based Discovery and Recommendation of MOOCs using moocrank; en: Proceedings of the European MOOC Stakeholder Summit 2014, P.A.U. Education, ESPAÑA, 2014.

- HAN, X.; WANG, L.; PARK, S.; CUEVAS, A.; CRESPI, N.
Alike People, Alike Interests? A Large-Scale Study on Interest Similarity in Social Networks; en: 2014 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2014), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, ESTADOS UNIDOS DE AMERICA, 2014.

- LARRABEITI, D.; UMAR, M.; SÁNCHEZ, R.; HERNANDEZ, J.A.
Heuristics for PON-based 5G backhaul design; en: 16th International Conference on Transparent Optical Networks (ICTON 2014), (16), ESTADOS UNIDOS DE AMERICA, 2014.

- LUTU, A.; BAGNULO, M.G.; CID-SUEIRO, J. ; MAENNEL, O.
Separating wheat from chaff: Winnowing unintended prefixes using machine learning; en: EEE INFOCOM 2014 - IEEE Conference on Computer Communications, IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, ESTADOS UNIDOS DE AMERICA, 2014.

- LUTU, A.; BAGNULO, M.G.; PELSSER, C.; MAENNEL, O.
Understanding the Reachability of IPv6 Limited Visibility Prefixes; en: Proceedings of 15th International Conference, PAM 2014, Los Angeles, CA, USA, March 10-11, 2014, SPRINGER , ESTADOS UNIDOS DE AMERICA, 2014.

- MUÑOZ, M.; CORCOBA, V.
  Eco-driving:
  Energy Saving based on driver behavior, Jornadas sobre Sistemas cualitativos y sus Aplicaciones en Diagnosis, Robótica e Inteligencia Ambiental, ESPAÑA, 2014.

- MUÑOZ, M.; CORCOBA, V.
  The
  impact of using gamification on the eco-driving learning, Advances in Intelligent and Soft Computing ISSN: 1867-5662, Springer, ESPAÑA, 2014.

- MUÑOZ, M.; CORCOBA, V.
  Eco-Driving
  Assistants: the Way to Learn How to Reduce Fuel Consumption., International Conference on ?Engineering and Applied Sciences Optimization? (OPT-i). Isla de Koos (Grecia), Junio 2014., ESPAÑA, 2014.

- MUÑOZ-MERINO, PEDRO J. ; DELGADO, C.; FERNÁNDEZ, M.
  Analyzing Learning Gains in a Competition Intelligent Tutoring System, 12th International Conference, ITS 2014*, Honolulu*, ESTADOS UNIDOS DE AMERICA, 2014.

- MUÑOZ-MERINO, PEDRO J. ; MENDEZ, E. M. ; DELGADO, C.
  SPOCs for Remedial Education: Experiences at the Universidad Carlos III de Madrid; en: Proceedings of the European MOOC Stakeholder Summit 2014, P.A.U. Education, ESPAÑA, 2014.

- MUÑOZ-MERINO, PEDRO J. ; RUIPEREZ, J.A.; ALARIO, C.; PEREZ, M.D.M.; DELGADO, C.
  Analítica del Aprendizaje para la Evaluación Precisa de la Efectividad del Alumno con Actividades y Recursos Educativos, Conferencia CISTI, Barcelona, 2014: Workshop on Learning Analytics*, BARCELONA*, ESPAÑA, 2014.

- MUÑOZ-MERINO, PEDRO J. ; RUIPEREZ, J.A.; ALARIO, C.; PEREZ, M.D.M.; DELGADO, C.
  Learning analytics for the precise evaluation of student effectiveness with educational resources and activities ; en: 2014 9th Iberian Conference on Information Systems and Technologies (CISTI 2014), IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, ESTADOS UNIDOS DE AMERICA, 2014.

- OLMEDO, M.; PEREZ, M.D.M.; ALARIO, C.; SOLDANI, X.; DELGADO, C.; SAYAGO, S.
  Supporting situated learning based on QR codes with etiquetAR App: A pilot study, 10th International Conference on Mobile Learning, 2014*, MADRID*, ESPAÑA, 2014.

- PEREZ, M.D.M.; DELGADO, C.; MUÑOZ-MERINO, PEDRO J.
  Recommendations for the design and deployment of MOOCs: Insights about the MOOC Digital Education of the Future deployed in MiríadaX; en: Proceedings of the 2nd International Conference on Technological Ecosystems for Enhancing Multiculturality, TEEM 2014, (2), ACM Press, ESTADOS UNIDOS DE AMERICA, 2014.

- RODRIGUEZ DE LOS SANTOS, G.; HERNANDEZ, J.A.; URUEÑA, M.; MUÑOZ, A.
  A Bloom Filter-Based Monitoring Station for a Lawful Interception Platform; en: Multimedia Communications, Services and Security : 7th International Conference on Multimedia Communications, Services & Security (MCSS 2014), Krakow, Poland, June 11-12, 2014. Proceedings , SPRINGER CUSTOMER SERVICE CENTER GMBH, , 2014.

- RODRIGUEZ-CARRION, A.; CAMPO, C. ; GARCIA-RUBIO, C. ; DAS, S.K.
  Impact of location history collection schemes on observed human mobility features; en: Pervasive Computing and Communications Workshops (PERCOM Workshops), 2014 IEEE International Conference on, IEEE - THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 2014.

- RUIPEREZ, J.A.; MUÑOZ-MERINO, PEDRO J. ; DELGADO, C.
  A demonstration of ALAS-KA: A learning analytics tool for the Khan Academy platform; en: Open Learning and Teaching in Educational Communities: 9th European Conference on Technology Enhanced Learning, EC-TEL 2014, Graz, Austria, September 16-19, 2014, Proceedings , (9), SPRINGER , ESTADOS UNIDOS DE AMERICA, 2014.

- RUIPEREZ, J.A.; MUÑOZ-MERINO, PEDRO J. ; DELGADO, C.; NIEMANN, K.; SCHEFFEL, M.
  Do Optional Activities Matter in Virtual Learning Environments?, EC-TEL 2014: Open Learning and Teaching in Educational Communities*, Graz*, AUSTRIA, 2014.

- SANTIFIMIA, J.; PIJEIRA, H.E.; RUIPEREZ, J.A.; MUÑOZ-MERINO, PEDRO J. ; DELGADO, C.
  Towards the development of a learning analytics extension in open edX; en: TEEM '14 Proceedings of the Second International Conference on Technological Ecosystems for Enhancing Multiculturality, ACM, , 2014.

Propiedad Industrial/intelectual

- *Inventores*: FERNANDEZ, M.C.; CRUZ, V.
  PhyMEL-WS Wheelchair Simulator
  Titular: UNIVERSIDAD CARLOS III DE MADRID
  Fecha Solicitud: 06/02/2014

- *Inventores*: FERNANDEZ, M.C.; VALLE, J.; GARCÍA, A.
  SimGenFM
  Titular: UNIVERSIDAD CARLOS III DE MADRID
  Fecha Solicitud: 06/02/2014

- *Inventores*: VIDAL, I. ; GARCIA, J. J.
  Procedimiento
  y sistema para gestionar la transferencia de usuarios asignados, entre
  elementos de redes IMS
  Titular: UNIVERSIDAD CARLOS III DE MADRID
  Número Registro: **P201431780**
  Fecha Solicitud: 01/12/2014

Actividades de formación y movilidad de personal investigador

Estancias en otros centros

- CARLOS ALARIO HOYOS
  Título: Center for Educational Computing Initiatives del MIT
  Centro Externo: MIT (EE.UU.)
  País: ESTADOS UNIDOS DE AMERICA
  Duración: 01/05/2014 a 30/05/2014.

- DERICK ANTONIO LEONY ARREAGA
  Título: Design, implement and evaluate visualizations of emotions and time dedication observed in a learning activity.
  Centro Externo: Vrije Universiteit Brussel
  País: BÉLGICA
  Duración: 21/05/2014 a 28/08/2014.

- PATRICIA ARIAS CABARCOS
  Título: Risk and Security Metrics in Cloud/Multicloud Computing
  Centro Externo: Technische Universität Darmstadt
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