DEPARTAMENTO DE INGENIERIA TELEMATICA

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Actividades de investigación

Tesis Doctorales

- Algorithm design for scheduling and medium access control in heterogeneous networks
  Autores: SIM, G.H.
  Director/Codirectores: WIDMER, J.; CUEVAS, R.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Año: 2016

- Analysis, design and experimental and evaluation of connectivity management in heterogeneous wireless environments
  Autores: SANCHEZ, M.I.
  Director/Codirectores: OLIVA, A.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Año: 2016

- Caracterización de usuarios y propagación de mensajes en twitter en el entorno de temas sociales
  Autores: CONGOSTO, M.L.
  Director/Codirectores: SANCHEZ, L.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Año: 2016

- Contributions to affective learning through the use of data analysis , visualizations and recommender sytems
  Autores: Derick Leony
  Director/Codirectores: MUÑOZ, P.J.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Año: 2016

- Contributions to the solution of the energy efficient file distribution problem
  Autores: VERMA, K.
  Director/Codirectores: GARCÍA-MARTÍNEZ, A.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Centro donde se presentó: CAMPUS DE LEGANES
  Año: 2016

- Contributions to understanding of Human Mobility and Its Impact on the Improvement of Lightweight Mobility Prediction Algorithms
  Autores: RODRIGUEZ-CARRION, A.
  Director/Codirectores: CAMPO, M.C.; GARCIA-RUBIO, C.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Centro donde se presentó: CAMPUS DE LEGANES
  Año: 2016

- Descubrimiento de servicios cross-layer basado en olsr para redes manet
  Autores: VARA LORENZO, M.I.
  Director/Codirectores: CAMPO, C.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Año: 2016

- Efficient voice and video traffic delivery in ieee 802.11 wlans: design, implementation and experimental evaluation
  Autores: SALVADOR, J.P.
  Director/Codirectores: SERRANO, P.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Año: 2016

- Gamificación de las aulas mediante las TIC: un
  cambio de paradigma en la enseñanza presencial frente a la docencia tradicional
  Director/Codirectores: MUÑOZ, M.
  Centro donde se presentó: de Ciencia de Materiales, Óptica y Tecnología Electrónica
  Año: 2016

- Measurements and analysis of individual and collective advertising
  Autores: CARRASCOSA, J.M.
  Director/Codirectores: CUEVAS, R.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Año: 2016

- Opportunistic device-to-device communication in cellular networks: from theory to practice
  Autores: ASADI, A.
  Director/Codirectores: CUEVAS, R.; MANCUSO, V.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Año: 2016

- Optimization of Energy Efficiency in Data and WEB Hosting Centers
  Autores: CHATZIPAPAS, A.
  Director/Codirectores: CUEVAS, R.; MANCUSO, V.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Centro donde se presentó: CAMPUS DE LEGANES
  Año: 2016

- Planificación, optimización y operación de redes de acceso ópticas y ethernet para la provisión de servicios simétricos de alta velocidad
  Autores: SANCHEZ, R.
  Director/Codirectores: LARRABEITI, D.; HERNANDEZ, J.A.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Año: 2016

- Schemes for Multi-Hop Dissemination of Non-Safety Information in VANETs.
  Autores: GARCÍA-LOZANO, E.
  Director/Codirectores: CAMPO, C.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Centro donde se presentó: CAMPUS DE LEGANES
  Año: 2016

- Visible light and device-to-device communications: system analysis and implementation
  Autores: WANG, Q.
  Director/Codirectores: CUEVAS, R.; GIUSTINIANO, D.
  Universidad: UNIVERSIDAD CARLOS III DE MADRID
  Año: 2016

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas nacionales

- GARCIA, M.S.
  Prototyping low-cost and flexible vehicle diagnostic systems*, Advances in Distributed Computing and Artificial Intelligence Journal* , Vol. 5, Núm. 4, 2016, pp. 93-103, ESPAÑA.

Publicaciones en revistas científicas internacionales

- ALARIO, C.; MUÑOZ, P.J.; PEREZ, M.D.M.; DELGADO, C.; PARADA, H.A.
  Who are the top contributors in a MOOC? Relating participants' performance and contributions*, Journal of computer assisted learning.*, Vol. 32, Núm. 3, 2016, pp. 232-243, REINO UNIDO.

- ALMENAREZ, F. ; HINAREJOS, F.; MARIN, A. ; FERRER-GOMILA, J.; DIAZ, D.
  PECEVA: an adaptable and energy-saving credential validation solution for pervasive networks*, Information sciences*, Vol. 354, 2016, pp. 41-59, HOLANDA - PAISES BAJOS.

- AVALLONE, S.; BANCHS, A.
  A channel assignment and routing algorithm for energy harvesting multiradio wireless mesh networks*, IEEE Journal on Selected Areas in Communications*, Vol. 34, Núm. 5, 2016, pp. 1463-1476, ESTADOS UNIDOS DE AMERICA.

- BANCHS, A.; ORTIN, J.; GARCIA, A.; LEITH, D.J.; SERRANO, P.
  Thwarting selfish behavior in 802.11 WLANs*, IEEE/ACM transactions on networking*, Vol. 24, Núm. 1, 2016, pp. 492-505, ESTADOS UNIDOS DE AMERICA.

- BASANTA, P. ; GARCIA, M.S.
  Simple Multiplexing Headers for the JRMP Stream Subprotocol*, IEEE Latin America transactions*, Vol. 14, Núm. 2, 2016, pp. 1005-1010, ESTADOS UNIDOS DE AMERICA.

- BERNARDOS, C.J.; BALAZS, P.; DI GIROLAMO, M.; KERN, A.; MARTINI, B.; VAISHNAVI, I.
  5GEx: realising a Europe-wide multi-domain framework for software-defined infrastructures*, Transactions on Emerging Telecommunications Technologies*, Vol. 27, Núm. 9, 2016, pp. 1271-1280.

- CABARCOS, P. A.; MARIN, A. ; PALACIOS, D.; ALMENAREZ, F. ; DIAZ, D.
  Comparing password management software: toward usable and secure enterprise authentication*, IT Professional*, Vol. 18, Núm. 5, 2016, pp. 34-40, ESTADOS UNIDOS DE AMERICA.

- CONTRERAS, L. M. ; COMINARDI, L.; QIAN, H.; BERNARDOS, C.J.
  Software-Defined Mobility Management: Architecture Proposal and Future Directions, *Mobile Networks and Applications*, Vol. 21, Núm. 2, 2016, pp. 226-236, HOLANDA - PAISES BAJOS.

- CORCOBA, V.; MUÑOZ, M.
  Artemisa: a personal driving assistant for fuel saving, *IEEE Transactions on Mobile Computing*, Vol. 15, Núm. 10, 2016, pp. 2437-2451, ESTADOS UNIDOS DE AMERICA.

- CORCOBA, V.; MUÑOZ, M.
  WATI: Warning of Traffic Incidents for fuel saving, *Journal of mobile information systems*, Vol. 2016 (3091516), 2016, pp. 1-16, HOLANDA - PAISES BAJOS.

- DIAZ, D.; GUERRERO, R. S.; CABARCOS, P. A.; ALMENAREZ, F. ; MARIN, A.
  A distributed transcoding and content protection system: enabling pay per quality using the cloud, *Telecommunication systems*, Vol. 61, Núm. 1, 2016, pp. 59-76, HOLANDA - PAISES BAJOS.

- DIAZ, D.; SHERRATT, R.S.; ALMENAREZ, F. ; CABARCOS, P. A.; MARIN, A.
  Secure store and forward proxy for dynamic IoT applications over M2M networks, *IEEE Transactions on consumer electronics*, Vol. 62, Núm. 4, 2016, pp. 389-397, ESTADOS UNIDOS DE AMERICA.

- DROSTE, H.; ROST, P.; DOLL, M.; BERBERANA, I.; MANNWEILER, C.; BREITBACH, M.; BANCHS, A.; PUENTE, M.A.
  An adaptive 5G multiservice and multitenant radio access network architecture, *Transactions on Emerging Telecommunications Technologies*, Vol. 27, Núm. 9, 2016, pp. 1262-1270.

- FARAHBAKHSH, R.; CUEVAS, A.; CRESPI, N.
  Characterization of cross-posting activity for professional users across Facebook, Twitter and Google+, *Social networks*, Núm. 6:33, 2016, pp. 1-14, SUIZA.

- GARCIA, J.J.; VIDAL, I.; BELLAVISTA, P.; SOTO, I.; ARANDA, P.A.
  Transparent reallocation of control functions in IMS deployments, *IEEE Communications magazine*, Vol. 54, Núm. 1, 2016, pp. 106-113, ESTADOS UNIDOS DE AMERICA.

- GARCÍA-LOZANO, E.; CAMPO, C. ; GARCIA-RUBIO, C. ; RODRIGUEZ-CARRION, A.
  A Bandwidth-Efficient Dissemination Scheme of Non-Safety Information in Urban VANETs, *Sensors*, Vol. 16, Núm. 7, 2016, SUIZA.

- GONZÁLEZ, R.; CUEVAS, R.; MOTAMEDI, R.; REJAIE, R.; CUEVAS, A.
  Assessing the Evolution of Google plus in Its First Two Years, *IEEE/ACM transactions on networking*, Vol. 24, Núm. 3, 2016, pp. 1813-1826, ESTADOS UNIDOS DE AMERICA.

- GONZALEZ, S.; OLIVA, A.; COSTA, X.; DI GIGLIO, A.; CAVALIERE, F.; DEISS, T.; LI, X.; MOURAD, A.
  5G-Crosshaul: An SDN/NFV control and data plane architecture for the 5G integrated Fronthaul/Backhaul, *Transactions on Emerging Telecommunications Technologies*, Vol. 27, Núm. 9, 2016, pp. 1196-1205.

- GOWDA, A.S.; KAZOVSKY, L.G.; WANG, K.; LARRABEITI, D.
Quasi-Passive optical infrastructure for future 5G wireless networks: pros and cons, *Journal of optical communications and networking*, Vol. 8, Núm. 12, 2016, pp. B111-B123, ESTADOS UNIDOS DE AMERICA.

- HAN, X.; WANG, L.; FARAHBAKHSH, R.; CUEVAS, A.; CUEVAS, R.; CRESPI, N.; HE, L.
CSD: a multi-user similarity metric for community recommendation in online social networks, *Expert systems with applications*, Vol. 53, 2016, pp. 14-26, REINO UNIDO.

- HERNANDEZ, J.A.; SANCHEZ, R.; LARRABEITI, D.
Oversubscription dimensioning of next-generation PONs with different service levels, *IEEE Communications letters*, Vol. 20, Núm. 7, 2016, pp. 1341-1344, ESTADOS UNIDOS DE AMERICA.

- IBAÑEZ, M. B. ; DI SERIO, A.; VILLARAN, D.; DELGADO, C.
Support for augmented reality simulation systems: the effects of scaffolding on learning outcomes and behavior patterns, *IEEE transactions on learning technologies*, Vol. 9, Núm. 1, 2016, pp. 46-56, ESTADOS UNIDOS DE AMERICA.

- KHALED, O.; MARIN, A. ; ALMENAREZ, F. ; CABARCOS, P. A.; DIAZ, D.
Analysis of secure TCP/IP profile in 61850 based substation automation system for smart grids, *International journal of distributed sensor networks*, Vol. 12, Núm. 4, 2016, pp. 1-11, ESTADOS UNIDOS DE AMERICA.

- LUTU, A.; BAGNULO, M.G.; PELSSER, C.; MAENNEL, O.; CID-SUEIRO, J.
The BGP Visibility Toolkit: Detecting Anomalous Internet Routing Behavior, *IEEE/ACM transactions on networking*, Vol. 24, Núm. 2, 2016, pp. 1237-1250, ESTADOS UNIDOS DE AMERICA.

- MARTÍNEZ, F.; OSPINA, J.C.; RAMIREZ, G.A.; MUÑOZ, M.
Recommending ads from trustworthy relationships in pervasive environments, *Journal of mobile information systems*, Vol. 2016, Núm. 8593173, 2016, pp. 1-18, HOLANDA - PAISES BAJOS.

- MORILLAS, C.; MUÑOZ, M.; SANCHEZ, J.
Can gamification improve the benefits of student response systems in learning? an experimental study, *IEEE Transactions on emerging topics in computing*, Vol. 4, Núm. 3, 2016, pp. 429-438.

- MUÑOZ, M.; BRITO, C.
Improving accuracy and simplifying training in fingerprinting-based indoor location algorithms at room level, *Journal of mobile information systems*, Vol. 2016 (2682869), 2016, pp. 1-16, HOLANDA - PAISES BAJOS.

- MUÑOZ, M.; LOTFI, A.
Human movement recognition based on the stochastic characterisation of acceleration data, *Sensors*, Vol. 16, Núm. 9 (1464), 2016, pp. 1-16, SUIZA.

- MUÑOZ, M.; PARKER, J.; POWELL, L.; MAWSON, S.
Assessing walking strategies using insole pressure sensors for stroke survivors, *Sensors*, Vol. 16, Núm. 10 (1631), 2016, pp. 1-18, SUIZA.

- OLIVA, A.; HERNANDEZ, J.A.; LARRABEITI, D.; AZCORRA, A.
  An overview of the CPRI specification and its application to C-RAN-based LTE scenarios, *IEEE Communications magazine*, Vol. 54, Núm. 2, 2016, pp. 152-159, ESTADOS UNIDOS DE AMERICA.

- ORTIN, J.; DONATO, C.; SERRANO, P.; BANCHS, A.
  Resource-on-demand schemes in 802.11 WLANs with non-zero start-up times, *IEEE Journal on Selected Areas in Communications*, Vol. 34, Núm. 12, 2016, pp. 3221-3233, ESTADOS UNIDOS DE AMERICA.

- ORTIN, J.; SERRANO, P.; DONATO, C.
  Optimal configuration of a resource-on-demand 802.11 WLAN with non-zero start-up times, *Computer communications*, Vol. 96, 2016, pp. 99-108, HOLANDA - PAISES BAJOS.

- ROST, P.; BANCHS, A.; BERBERANA, I.; BREITBACH, M.; DOLL, M.; DROSTE, H.; MANNWEILER, C.; PUENTE, M.A.; SAMDANIS, K.; SAYADI, B.
  Mobile network architecture evolution toward 5G, *IEEE Communications magazine*, Vol. 54, Núm. 5, 2016, pp. 84-91, ESTADOS UNIDOS DE AMERICA.

- RUIPEREZ, J.A.; MUÑOZ, P.J.; DELGADO, C.; NIEMANN, K.; SCHEFFEL, M.; WOLPERS, M.
  Analyzing the impact of using optional activities in self-regulated learning, *IEEE transactions on learning technologies*, Vol. 9, Núm. 3, 2016, pp. 231-243, ESTADOS UNIDOS DE AMERICA.

- SANCHEZ, M.I.; OLIVA, A.; BERNARDOS, C.J.
  Experimental analysis of connectivity management in mobile operating systems, *Computer networks*, Vol. 94, 2016, pp. 41-61, HOLANDA - PAISES BAJOS.

- SANCHEZ, M.I.; ZEYDAN, E.; OLIVA, A.; TAN, A.S.; YABAS, U.; BERNARDOS, C.J.
  Mobility management: Deployment and adaptability aspects through mobile data traffic analysis, *Computer communications*, Vol. 95, 2016, pp. 3-14, HOLANDA - PAISES BAJOS.

- SANCHEZ, R.; HERNANDEZ, J.A.; LARRABEITI, D.
  Network Planning for Dual Residential-Business Exploitation of Next-Generation Passive Optical Networks to Provide Symmetrical 1 Gb/s Services, *Journal of optical communications and networking*, Vol. 8, Núm. 4, 2016, pp. 249-262, ESTADOS UNIDOS DE AMERICA.

- SÁNCHEZ, R.; HERNANDEZ, J.A.; MONTALVO, J. ; LARRABEITI, D.
  Provisioning 1 Gb/s symmetrical services with next-generation passive optical network technologies, *IEEE Communications magazine*, Vol. 54, Núm. 2, 2016, pp. 72-77, ESTADOS UNIDOS DE AMERICA.

- SCIANCALEPORE, V.; GIUSTINIANO, D.; BANCHS, A.; HOSSMANN, A.
  Offloading Cellular Traffic Through Opportunistic Communications: Analysis and Optimization, *IEEE Journal on Selected Areas in Communications*, Vol. 34, Núm. 1, 2016, pp. 122-137, ESTADOS UNIDOS DE AMERICA.

- SCIANCALEPORE, V.; MANCUSO, V.; BANCHS, A.; ZAKS, S.; CAPONE, A.
  Enhanced content update dissemination through D2D in 5G cellular networks, *IEEE Transactions on wireless Communications*, Vol. 15, Núm. 11, 2016, pp. 7517-7530, ESTADOS UNIDOS DE AMERICA.

- SEIJO, M.; LOPEZ, G.I.; MANTANZA, J.; MORENO, J.I.
  Planning and Performance Challenges in Power Line Communications Networks for Smart Grids, *International journal of distributed sensor networks*, 2016, ESTADOS UNIDOS DE AMERICA.

- SUAREZ, J.; QUEVEDO, J.; VIDAL, I.; CORUJO, D.; GARCIA, J.J.; AGUIAR, R.L.
  A secure IoT management architecture based on Information-Centric Networking, *Journal of Network and Computer Applications*, Vol. 63, 2016, pp. 190-204, ESTADOS UNIDOS DE AMERICA.

- VLACHOU, C.; BANCHS, A.; SALVADOR, J.P.; HERZEN, J.; THIRAN, P.
  Analysis and enhancement of CSMA/CA with deferral in power-line communications, *IEEE Journal on Selected Areas in Communications*, Vol. 34, Núm. 7, 2016, pp. 1978-1991, ESTADOS UNIDOS DE AMERICA.

- ZHANG, Q.; DAS, S.K.; RODRIGUEZ-CARRION, A.
  A 2-D random walk mobility model for WiMAX location update, *Computer communications*, Vol. 78, 2016, pp. 86-96, HOLANDA - PAISES BAJOS.

Monografías Científicas

- DELGADO, C.; MUÑOZ, P.J.; CRESPO, R. M.; ALARIO, C.
  Trends in digital education: selected papers from EC-TEL 2015 Workshops CHANGEE, WAPLA, and HybridEd (EC-TEL-WS 2015), Toledo, Spain, September 18, 2015, ALEMANIA, 2016.

Colaboraciones en obras colectivas

- FONZONE, A.; BORDAGARAY, M.; RODRIGUEZ-CARRION, A.; POSTORINO, M.N.
  TS Data for Transit Assignment, en: Modelling Public Transport Passenger Flows in the Era of Intelligent Transport Systems, ESTADOS UNIDOS DE AMERICA, pp. 263-284, 2016.

Ponencias y Comunicaciones a congresos

- ALARIO, C.; AMADO, H.; MORALES, M.; HERNANDEZ, R.; DELGADO, C.
  MOOC-Maker: construcción de capacidades de gestión de MOOCs en educación superior de Latinoamérica; en: Nuevas ideas en informática educativa: TISE 2016: XXI Congreso Internacional de Informática Educativa, 29, 30 de Noviembre y 1 de Diciembre de 2016, Santiago, Chile., UNIVERSIDAD DE CHILE, CHILE, 2016.

- ALARIO, C.; DELGADO, C.; ESTEVEZ-AYRES, I.; FERNANDEZ, M.C.; BLASCO, J.; PASTRANA, S.; Guillermo Suarez-Tangil; VILLENA, J.
  Interactive activities: the key to learning programming with MOOCs; en: Proceedings of the EUROPEAN STAKEHOLDER SUMMIT on experiences and best practices in and around MOOCs (EMOOCS 2016) , 2016.

- ALARIO, C.; DELGADO, C.; ESTEVEZ-AYRES, I.; FERNANDEZ, M.C.; VILLENA, J.
  From the classroom to a massive audience: a successful experience introducing programming with Java; en: 2016 7th conference digital inclusion: transforming education through technology: May 23rd-25th MIT, Cambridge, Massachusetts, USA (proceedings), 2016.

- ARANDA, P.A.; ROJAS, E.; SCHWABE, A.; STRIZKE, C.; DORIGUZZI-CORIN, R.; LECKEY, A.; PETRALIA, G.; MARSICO, A.; PHEMIUS, K.; TAMUREJO, S.
NetIDE: all-in-one framework for next generation, composed SDN applications; en: 2016 IEEE NetSoft Conference and Workshops: software-defined intrastructure for networks, clouds, IoT and services: final program: 6-10 June 2016, Seoul, Korea, IEEE Computer Society., ESTADOS UNIDOS DE AMERICA, 2016.

- ARIAS FISTEUS, J. ; SANCHEZ, L. ; CORCOBA, V.; MUÑOZ, M.; FERNANDEZ, J.Y.; ALVAREZ-GARCIA, J.A.
A scalable data streaming infrastructure for smart cities; en: Abstracts of the XVIII JARCA Workshop on Qualitative Systems and Applications in Diagnosis, Robotics and Ambient Intelligence: from 23rd to 29th June 2016, , 2016.

- AZCORRA, A.
Co-creación [empresarial en tecnologías 5G], Jornada Comunicaciones 5G: retos y oportunidades en sectores claves: sectores de aplicación, tecnologías e I+D+i, ESPAÑA, 2016.

- BERSANI, M.M.; GARCIA, M.S.
The cost of formal verification in adaptive CPS. An example of a virtualized server node; en: The 17th IEEE International Symposium on High Assurance Systems Engineering (HASE 2016), 7-9 January 2016, Orlando, Florida. Proceedings, IEEE Computer Society., ESTADOS UNIDOS DE AMERICA, 2016.

- CAEIRO-RODRIGUEZ, M.; CONDE, M.A.; GUENAGA, M.; HERNANDEZ-GARCIA, A.; LARRAÑAGA, M.; MARTINEZ-MONES, A.; MUÑOZ, P.J.; PASTOR-VARGAS, R.; PERALLOS-RUIZ, A.; RODRIGUEZ-CONDE, M.J.
SNOLA: Spanish network of learning analytics; en: Proceedings of the Fourth International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM2016), ACM, , 2016.

- CALLEJO, P.; CUEVAS, R.; CUEVAS, A.; KOTILA, M.
Independent auditing of online display advertising campaigns; en: Proceedings of the 15th ACM Workshop on Hot Topics in Networks (HotNets 2016), ACM, ESTADOS UNIDOS DE AMERICA, 2016.

- CARRO, R.M.; MOLINS-RUANO, P.; RODRIGUEZ, P.; SACHA, G.M.; DELGADO, C.; MUÑOZ, P.J.; MUÑOZ, M.; CASTRO, M.; MARTIN, S.
eMadrid project: ubiquitous learning, adaptation, adaptability and accessibility; en: 2016 International Symposium on Computers in Education (SIIE): Learning Analytics Technologies: Salamanca, Castilla y León, Spain, September, 13-16, 2016 (proceedings), IEEE COMPUTER SOCIETY, , 2016.

- COMINARDI, L.; BARANDA, J.; LARRABEITI, D.; CHANCLOU, P.; GOMES, J.; DI GIGLIO, A.; ODLING, P.; CHANG, H.W.
5G-Crosshaul: towards a unified data-plane for 5G transport networks, European Conference on Networks and Communications (EUCNC 2016)*, Athens*, GRECIA, 2016.

- CONTRERAS, L. M. ; BERNARDOS, C.J.; OLIVA, A.; COSTA-PEREZ, X.; GUERZONI, R.
Orchestration of Crosshaul slices from federated administrative domains; en: 2016 European Conference on Networks and Communications (EuCNC), 27-30 June 2016 in Athens, Greece (proceedings), IEEE Computer Society., ESTADOS UNIDOS DE AMERICA, 2016.

- CORCOBA, V.; MUÑOZ, M.; ALVAREZ-GARCIA, J.A.; FERNANDEZ, J.Y.
  Estimation of the optimum speed to minimize the driver stress based on the previous behavior; en: <u>Ambient intelligence: software and applications: 7th International Symposium on Ambient Intelligence (ISAmI 2016)</u>, , 2016.

- CORCOBA, V.; MUÑOZ, M.; ARIAS FISTEUS, J. ; SANCHEZ, L.
  Estimating the stress for drivers and passengers using deep learning; en: <u>Abstracts of the XVIII JARCA Workshop on Qualitative Systems and Applications in Diagnosis, Robotics and Ambient Intelligence: from 23rd to 29th June 2016</u>, , 2016.

- CUEVAS, A.
  Publishers en BitTorrent: ¿Quiénes son? ¿Cómo actúan? ¿Cómo reaccionan ante eventos contra la piratería on-line, III Jornadas de Ciberpolítica: hacia la cosmópolis de la información y la comunicación*, MADRID*, ESPAÑA, 2016.

- CUEVAS, A.
  FDVT: personal data valuation tool for Facebook users; en: , 2016.

- DEISS, T.; COMINARDI, L.; GARCIA, A.; IOVANNA, P.; LANDI, G.; LI, X.; MANGUES-BAFALLUY, J.; NUÑEZ-MARTINEZ, J.; OLIVA, A.
  Packet forwarding for heterogeneous technologies for integrated fronthaul/backhaul; en: <u>2016 European Conference on Networks and Communications (EuCNC), 27-30 June 2016 in Athens, Greece (proceedings)</u>, IEEE Computer Society., ESTADOS UNIDOS DE AMERICA, 2016.

- DELGADO, C.
  El futuro de la educación ya no es el que era, Las Tecnologías de la Información y la Comunicación en la Universidad del Siglo XXI*, SANTANDER*, ESPAÑA, 2016.

- DELGADO, C.
  Bienvenidos a la universidad digital, I Jornada de la Cátedra Telefónica-UVa MOOC: el futuro de la educación digital ya está aquí*, VALLADOLID*, ESPAÑA, 2016.

- DELGADO, C.
  Der MOOC: Ein guter Wegweiser, openHPI Forum 2016: "Digitale Bildung: Quo Vadis"*, Postdam*, ALEMANIA, 2016.

- DELGADO, C.
  Cómo encender la Universidad: pensando en alto, Seminario "Digitalización y MOOCs, motores de innovación en Educación Superior"*, Santiago*, CHILE, 2016.

- DELGADO, C.
  Learning is experience. Everything else is just information: the role of MOOCs, TISE 2016, XXI Congreso Internacional de Informática Educativa*, Santiago*, CHILE, 2016.

- DELGADO, C.
  From massive open online courses to a paradigm shift in education, The Learning International Networks Consortium Conference (LINC 2016) *, Cambridge, Massachusetts*, ESTADOS UNIDOS DE AMERICA, 2016.

- DELGADO, C.
  MOOCs: Kindling the Learning about Education, EMEMITALIA2016: Design the Future, *Modena*, ITALIA, 2016.

- DELGADO, C.
  Unbundling MOOCs, International Mooc Colloquium: The Mooc Identity, *Anacapri, Napoli*, ITALIA, 2016.

- DELGADO, C.
  What can we learn from Software Engineering for Courseware Production?, European Conference of Software Engineering Education (ECSEE 2016), *Kloster Seeon*, ALEMANIA, 2016.

- DELGADO, C.
  Remedial courses: from the Khan Academy Platform to Open edX, OPEN edX Education Shared 2016, *Palo Alto, CA*, ESTADOS UNIDOS DE AMERICA, 2016.

- DELGADO, C.; ALARIO, C.; FERNANDEZ, M.C.; ESTEVEZ-AYRES, I.; MUÑOZ, P.J.; COBOS, R.; MORENO, J.; TOVAR, E.; CABEDO, R.; PIEDRA, N.; CHICAIZA, J.; LOPEZ, J.
  eMadrid project: MOOCs and learning analytics; en: 2016 International Symposium on Computers in Education (SIIE): Learning Analytics Technologies: Salamanca, Castilla y León, Spain, September, 13-16, 2016 (proceedings) , IEEE Computer Society., , 2016.

- DELGADO, C.; CASTRO GIL, M.A.; RODRIGUEZ, P.; ROBLES, G.; TOVAR, E.; FERNANDEZ, B.
  Designing educational material; en: Proceedings of 2016 IEEE Global Engineering Education Conference (EDUCON), 10-13 April 2016, Abu Dhabi, UA: smart education in smart cities, IEEE COMPUTER SOCIETY, 2016.

- DELGADO, C.; IBAÑEZ, M. B. ; ALARIO, C.; MUÑOZ, P.J.; ESTEVEZ-AYRES, I.; FERNANDEZ, M.C.; VILLENA, J.
  From software engineering to courseware engineering; en: Proceedings of the IEEE Global Engineering Education Conference, EDUCON 2016, 10-13 April 2016, Abu Dhabi, UAE, IEEE EDUCON, ESTADOS UNIDOS DE AMERICA, 2016.

- DIAZ, D.; SHERRATT, R.S.; ALMENAREZ, F. ; CABARCOS, P. A.; MARIN, A.
  Distributed access control and privacy for the internet of me; en: 2016 IEEE International Conference on Consumer Electronics (ICCE) (proceedings), IEEE Computer Society., ESTADOS UNIDOS DE AMERICA, 2016.

- DIAZ, D.; SHERRATT, R.S.; CABARCOS, P. A.; ALMENAREZ, F. ; MARIN, A.
  Proxy re-encryption schemes for IoT and crowd sensing; en: , IEEE Computer Society., ESTADOS UNIDOS DE AMERICA, 2016.

- DOMINGUEZ, J.; GARCIA, M.S.; EDDINE, I.
  Using DDS middleware in distributed partitioned systems; en: International workshop on Real-time computing and distributed systems in emerging applications: Reaction 2016: colocated with IEEE RTSS, Porto, Portugal, November 29th, 2016 (proceedings), 2016.

- FANOU, E.R.A.; SANCHEZ, V.; VALERA, F.; MWANGI, M.; COFFIN, J.
  Africa route collectors data analyzer: a compass to support peering growth in the region, The 7th African Peering and Interconnection Forum (AFPIF 2016)*, Salaam*, TANZANIA, 2016.

- GARCIA, J.; GARCIA, M.S.; ESCRIBANO-BARRENO, J.
  Improved metrics handling in SonarQube for software quality monitoring; en: Distributed Computingand Artificial Intelligence, 13th International Conference , SPRINGER , , 2016.

- GARCIA, M.S.
  A proposal for cost-effective server usage in CPS in the presence of dynamic client requests; en: Proceedings of 2016 IEEE 19th International Symposium on Real-Time Distributed Computing (ISORC 2016), 17-20 May 2016, York, United Kingdom, IEEE Computer Society., ESTADOS UNIDOS DE AMERICA, 2016.

- GARCIA, M.S.
  Low cost software prototyping of a diagnosis computer; en: Distributed Computingand Artificial Intelligence, 13th International Conference , SPRINGER , , 2016.

- GARCIA, M.S.; CALVA, C.J.; ALONSO, A.; DE LA PUENTE, J.A.
  Adjusting middleware knobs to suit CPS domains; en: Proceedings of the 31st Annual ACM Symposium on Applied Computing, ACM, ESTADOS UNIDOS DE AMERICA, 2016.

- GOMEZ-MIGUELEZ, I.; GARCIA, A.; SUTTON, P.D.; SERRANO, P.; CANO, C.; LEITH, D.J.
  srsLTE: an open-source platform for LTE evolution and experimentation; en: Proceedings of the Tenth ACM International Workshop on Wireless Network Testbeds, Experimental Evaluation, and Characterization (WiNTECH 2016), New York, October 03-07, 2016, ACM, ESTADOS UNIDOS DE AMERICA, 2016.

- HERZEN, J.; BANCHS, A.; SHNEER, V.; THIRAN, P.
  CSMA/CA in time and frequency domains; en: 2015 IEEE 23rd International Conference on Network Protocols ICNP 2015, 10-13 November 2015, San Francisco, CA, USA: proceedings, IEEE Computer Society., ESTADOS UNIDOS DE AMERICA, 2016.

- IBAÑEZ, M. B. ; DI SERIO, A.; VILLARAN, D.; DELGADO, C.
  The acceptance of learning augmented reality environments: a case study; en: Proceedings: IEEE 16th International Conference on Advanced Learning Technologies (ICALT 2016), 25-28 July 2016, Austin, Texas, IEEE Computer Society., ESTADOS UNIDOS DE AMERICA, 2016.

- JULIAN, M.; MUÑOZ, P.J.; DELGADO, C.; HERNANDEZ-LEO, D.; REDONDO-MARTINEZ, D.
  Design and evaluation of a computer based game for education; en: 2016 IEEE Frontiers in Education Conference Proceedings: the crossroads of engineering and busines: October 12-15, 2016, Erie, PA, IEEE COMPUTER SOCIETY, ESTADOS UNIDOS DE AMERICA, 2016.

- LARRABEITI, D.; HERNANDEZ, J.A.; OLIVA, A.; REVIRIEGO, P.
  Packet switching fabrics and applicability of 802.1p to transport 5G fronthaul traffic, 1st International Workshop on Elastic Networks Design and Optimisation (ELASTICNETS 2016)*, CARTAGENA*, ESPAÑA, 2016.

- MARCIEL, M.; CUEVAS, R.; BANCHS, A.; GONZALEZ, R.; TRAVERSO, S.; AHMED, M.; AZCORRA, A.
  Understanding the detection of view fraud in video content portals; en: WWW 2016: proceedings of the 25th International Conference on World Wide Web, Montreal, Canada, April 11-15, 2016, ACM, 2016.

- MARIN, A. ; ALMENAREZ, F. ; CABARCOS, P. A.; DIAZ, D.
  Wi-Fi direct: lessons learned; en: 2016 Mediterranean ad hoc networking workshop (Med-Hoc-Net): the 15th IFIP MEDHOCNET: 2016 Vilanova i la Geltru, Spain, June 20-21, 2016: [proceedings], IEEE Press, , 2016.

- MARTIN, I.; HERNANDEZ, J.A.; DE LOS SANTOS, S.; GUMZAN, A.
  POSTER: insights of antivirus relationships when detecting Android malware: a data analytics approach; en: Proceedings of the 2016 ACM SIGSAC Conference on Computer and Communications Security, ACM, ESTADOS UNIDOS DE AMERICA, 2016.

- MORILLAS, C.; MUÑOZ, M.; SANCHEZ, J.
  Creación de un sistema de respuesta de estudiante para mejorar la coordinación de la docencia presencial en asignaturas divididas en grupos; en: INNODOCT/16: "Lean Education and Innovation", UNIVERSITAT POLITECNICA DE VALENCIA, , 2016.

- MORILLAS, C.; MUÑOZ, M.; SANCHEZ, J.
  Gamifying the classroom: an example with the TV-game "who wants to be a millionaire?"; en: INTED 2016: 10th International Technology, Education and Development Conference, 7-9 March, 201, Valencia (Spain): conference proceedings: 10 years together for education, IATED ACADEMY, , 2016.

- MUÑOZ, M.
  A driving assistant to help people with mild cognitive ipairment or early stages of dementia; en: Med-e-Tel 2016: electronic proceedings: The International eHealth, Telemedicine and Health ICT Forum for Educational, Networking and Business: April 6-8, 2016, Luxembourg, G. D. of Luxembourg, International Society for Telemedicine & eHealth (ISfTeH), BÉLGICA, 2016.

- MUÑOZ, P.J.
  Behaviour analytics and visual analytics to improve the learning process; en: OEB 2016: The Global, Cross-Sector Conference on Technology supported Learning and Trainin: book of abstracts, ICWE GMBH, ALEMANIA, 2016.

- ORTIN, J.; SERRANO, P.; DONATO, C.A.
  Modeling the impact of start-up times on the performance of resource-on-demand schemes in 802.11 WLANs; en: 2015 Sustainable Internet and ICT for Sustainability (SustainIT): Madrid, Spain April 14-15, 2015 (proceedings), International Federation for Information Processing (IFIP), , 2016.

- PEREZ, M.D.M.; HILLIGER, I.; ALARIO, C.; DELGADO, C.; RAYYAN, S.
  Describing MOOC-based hybrid initiatives: the H-MOOC framework; en: Proceedings of the EUROPEAN STAKEHOLDER SUMMIT on experiences and best practices in and around MOOCs (EMOOCS 2016), Books on Demand GmbH, Norderstedt, ALEMANIA, 2016.

- PIJEIRA, H.J.; SANTOFIMIA, J.; RUIPEREZ, J.A.; MUÑOZ, P.J.; DELGADO, C.
  A demonstration of ANALYSE: a learning analytics tool for Open edX; en: Proceedings of the 3rd (2016) ACM Conference on Learning@Scale (L@S 2016), ACM, ESTADOS UNIDOS DE AMERICA, 2016.

- RUIPEREZ, J.A.; MUÑOZ, P.J.; DELGADO, C.
  An analysis of the use of badges in an educational experiment; en: 2016 IEEE Frontiers in Education Conference Proceedings: the crossroads of engineering and business: October 12-15, 2016, Erie, PA, IEEE COMPUTER SOCIETY, ESTADOS UNIDOS DE AMERICA, 2016.

- RUIPEREZ, J.A.; MUÑOZ, P.J.; DELGADO, C.
  Analyzing students' intentionality towards badges within a case study using Khan academy; en: Proceedings of the Sixth International Conference on Learning Analytics & Knowledge (LAK 2016): Edinburgh, United Kingdom, April 25-29, 2016, ACM, ESTADOS UNIDOS DE AMERICA, 2016.

- SANCHEZ, L. ; FERNANDEZ, N.; ARIAS FISTEUS, J. ; BASANTA, P.
  Some notes on justified representation, 10th Multidisciplinary Workshop on Advances in Preference Handling (MPREF) in conjunction with IJCAI 2016, *New York*, ESTADOS UNIDOS DE AMERICA, 2016.

- SANCHEZ, M.I.; OLIVA, A.; MANCUSO, V.
  Experimental evaluation of an SDN-based distributed mobility management solution; en: Proceedings of the Workshop on Mobility in the Evolving Internet Architecture (MobiArch ?), New York City, New York, October 03-07, 2016, ACM, ESTADOS UNIDOS DE AMERICA, 2016.

- SANZ-MARTINEZ, L.; DIMITRIADIS, Y.; MARTINEZ-MONES, A.; ALARIO, C.; BOTE-LORENZO, M.; RUBIA-AVI, B.; ORTEGA-ARRANZ, A.
  Influential factors for managing virtual groups in massive and variable scale courses; en: 2016 International Symposium on Computers in Education (SIIE): Learning Analytics Technologies: Salamanca, Castilla y León, Spain, September, 13-16, 2016 (proceedings), IEEE Computer Society., , 2016.

- SCHWABE, A.; ARANDA, P.A.; KARL, H.
  Composition of SDN applications: options/challenges for real implementations; en: Proceedings of the 2016 Applied Networking Research Workshop: ARNW?: Berlin, Germany, July 16, 2016, ACM, ESTADOS UNIDOS DE AMERICA, 2016.

- SILVA, S.; CARISIMO, E.; ALVAREZ-HAMELIN, J.I.; VALERA, F.
  Hidden Internet topologies info: truth or myth?; en: Proceedings of the 2016 workshop on Fostering Latin-American Research in Data Communication Networks (LANCOMM 2016), Florianopolis, Brazil, August 22 - 26, 2016, ACM, ESTADOS UNIDOS DE AMERICA, 2016.

- SUAREZ, J.; VIDAL, I.; GARCIA, J.J.; VALERA, F.; AZCORRA, A.
  Exploring the use of RPAs as 5G points of presence; en: 2016 European Conference on Networks and Communications (EuCNC), IEEE Computer Society., 2016.

- UCAR, I.; DONATO, C.; SERRANO, P.; GARCIA, A.; AZCORRA, A.; BANCHS, A.
  Revisiting 802.11 rate adaptation from energy consumption's perspective; en: MSWiM: proceedings of the 19th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems, ACM, ESTADOS UNIDOS DE AMERICA, 2016.

- VALCARENGUI, L.; KONDEPU, K.; SGAMBELLURI, A.; CUGINI, F.; CASTOLDI, P.; APARICIO, R.; LARRABEITI, D.; VERMEULEN, B.
  SDN-controlled energy-efficient mobile fronthaul: an experimental evaluation in federated testbeds; en: 2016 European Conference on Networks and Communications (EuCNC) (proceedings), IEEE

COMPUTER SOCIETY, ESTADOS UNIDOS DE AMERICA, 2016.

- VAZQUEZ, M.C.; MONTERO, D.S.; PONCE, W.; CONTRERAS LALLANA, P.; LARRABEITI, D.; MONTALVO, J. ; TAPETADO, A.; P. J. PINZÓN
  Multimode fibers in millimeter-wave evolution for 5G cellular networks; en: Proc. SPIE 9772, Broadband Access Communication Technologies X, 97720F (February 12, 2016), 2016.

- VELAZQUEZ-ITURBIDE, J.A.; FERRERO-MARTIN, B.; GONZALEZ-GONZALEZ, C.; MUÑOZ, P.J.; ORTEGA-CANTERO, M.
  Panel: What are limits of educational technologies?; en: 2016 International Symposium on Computers in Education (SIIE): Learning Analytics Technologies: Salamanca, Castilla y León, Spain, September, 13-16, 2016 (proceedings), IEEE COMPUTER SOCIETY, , 2016.

- VELAZQUEZ-ITURBIDE, J.A.; ROBLES-MARTINEZ, G.; COBOS, R.; ECHEVERRIA, L.; CLAROS, I.; FERNANDEZ, M.C.; IBAÑEZ, M. B. ; DELGADO, C.
  Project eMadrid: learning methodologies, gamification and quality; en: 2016 International Symposium on Computers in Education (SIIE): Learning Analytics Technologies: Salamanca, Castilla y León, Spain, September, 13-16, 2016 (proceedings), IEEE COMPUTER SOCIETY, , 2016.

- VELO, J.; ALARIO, C.; ESTEVEZ-AYRES, I.; DELGADO, C.
  Analizando el papel de las redes sociales en un MOOC de introducción a la programación en Java; en: Nuevas ideas en informática educativa: TISE 2016: XXI Congreso Internacional de Informática Educativa, 29, 30 de Noviembre y 1 de Diciembre de 2016, Santiago, Chile, UNIVERSIDAD DE CHILE, CHILE, 2016.

Propiedad Industrial/intelectual

- *Inventores*: AZCORRA, A.; UCAR, I.; BANCHS, A.; SERRANO, P.; GRINGOLI, F.
  Método de ahorro de energía basado en microapagados para un dispositivo inalámbrico en una red de telecomunicación
  Tipo: PATENTE
  Titular: UNIVERSIDAD CARLOS III DE MADRID
  Número Solicitud: **P201631001**
  Fecha Solicitud: 22/07/2016
  Países: ESPAÑA

- *Inventores*: URUEÑA, M.; SOTO, I.
  Método y sistema para autenticar automáticamente un usuario mediante un dispositivo de autenticación
  Tipo: PATENTE
  Titular: UNIVERSIDAD CARLOS III DE MADRID
  Número Solicitud: **P201631551**
  Fecha Solicitud: 05/12/2016
  Países: ESPAÑA

Actividades de formación y movilidad de personal investigador

Estancias en otros centros

- CARLOS ALARIO HOYOS
  Título: Descripción: estancia para realizar investigación sobre la reutilización de MOOCs para docencia

en el campus, y sobre aprendizaje autorregulado de los participantes en MOOCs
Centro Externo: Pontificia Universidad Católica de Chile
País: CHILE
Duración: 10/10/2016 a 10/12/2016.

- CARLOS DELGADO KLOOS
  Título: e-Learning
  Centro Externo: Ludwig-Maximilians-Universität München
  País: ALEMANIA
  Duración: 01/10/2015 a 30/03/2016.

- FLORINA ALMENARES MENDOZA
  Título: Provisionamiento de servicios de seguridad, confianza y privacidad en "Ubiquitous Participatory Sensing"
  Centro Externo: University of South Florida (USF)
  País: ESTADOS UNIDOS DE AMERICA
  Duración: 01/06/2016 a 02/09/2016.

- MARIO MUÑOZ ORGANERO
  Título: Extracción de información a partir de sensores vestibles y móviles
  Centro Externo: Universidad de Seffield
  País: REINO UNIDO
  Duración: 01/09/2015 a 31/08/2016.

- PABLO SERRANO YAÑEZ-MINGOT
  Título: Performance evaluation of 802.11aa
  Centro Externo: Università di Brescia
  País: ITALIA
  Duración: 22/05/2016 a 02/07/2016.