

AtlantTIC

Research Center for
Information & Communication Technologies

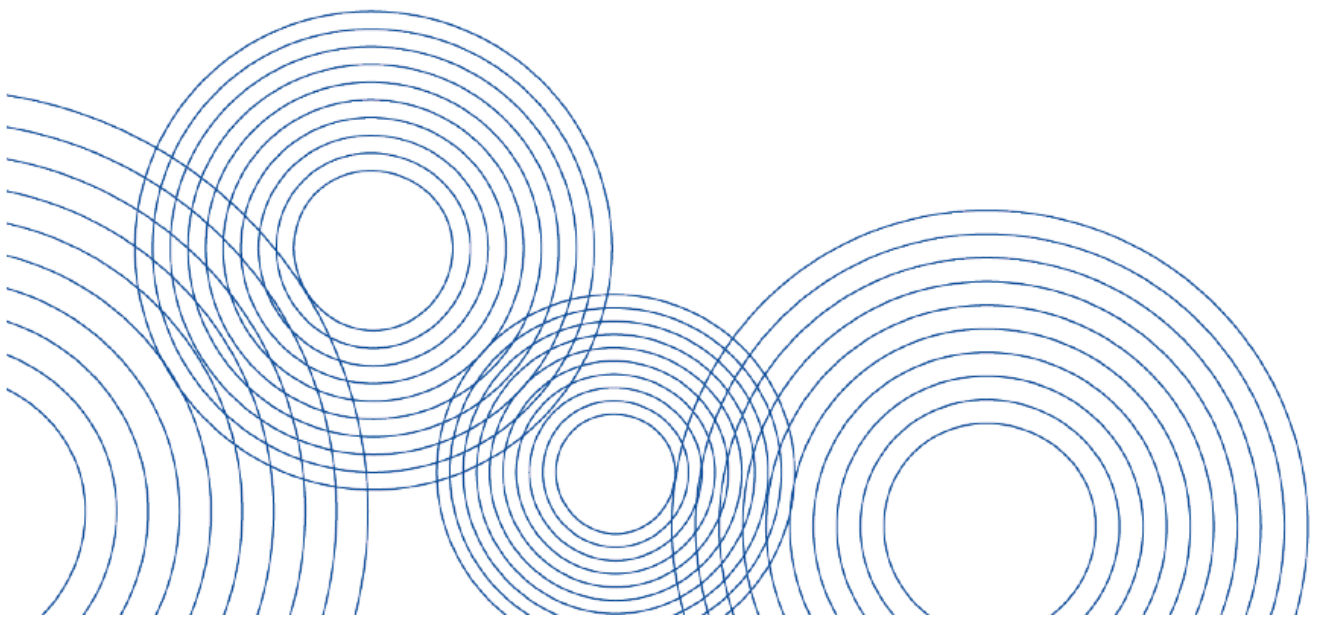


ANNUAL REPORT

2016

AtlantTIC

Research Center for
Information & Communication Technologies



Index

1. Introduction	3
2. R&D activities during 2016	3
2.1. Dissemination	3
2.2. Research excellence	6
3. AtlantTIC Quick Facts, 2016	8
4. Research projects	9
4.1. Relevant Research Projects in 2016	9
5. Annex 1: List of research projects in 2016	11
5.1.1. <i>International calls</i>	11
5.1.2. <i>Convocatoria nacional</i>	12
5.1.3. <i>Convocatoria Autonómica</i>	14
6. Annex 2: Scientific production	15
6.1. Papers in journals	15
6.2. Congresses	24
7. Patents	32

1. Introduction

In 2016 Atlanttic was endorsed by the regional government as one of the seven University singular research units in Galicia. This support, substantiated in the form of regular funding for the next four years, is a boost to keep pursuing advanced research in telecommunication technologies. The center, firmly rooted at the Telecommunication Engineering School of the University of Vigo, has a strong connection with the academic programs offered by this School, including both undergraduate and graduate studies. It is also in permanent contact with the industrial sector, both at the local and international level, in a two-way cooperation effort, with transfer of results to the industry and practically oriented motivations for research. Atlanttic is proud to host the work of some highly reputed researchers, and it is even the launching platform for some spin-offs, thus contributing to the Galician innovation ecosystem.

2. R&D activities during 2016

Some of the efforts in R&D are highlighted next.

2.1. Dissemination

- One of the major events of the year was the organization of the industry-oriented workshop #MeetTheLAB TACTICA INFODAY, organized to make the industry aware of the outcomes of the **TACTICA project**. This R&D project was designed to improve the capabilities of the Galician actors in the field, with Atlanttic as the hub of the activities.

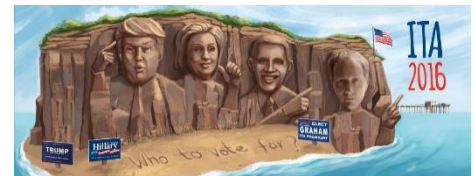


The project, funded by the Ministry of Economy, Industry and Competitiveness (MINECO) and ERDF (European Regional Development Fund), has allowed the investment of **more than EUR 8M in oriented R&D**. The research lines of the project have focused on 5 basic pillars: advanced software architecture (cloud computation and cloud multimedia systems); multimedia technologies (indexations and semantic search, big data and opinion analysis); wireless communications (satellite transmissions systems, cognitive radio, software



defined radio); security (signal processing in the encrypted domain – SPED-, multimedia forensics, privacy technologies) and characterisation and measure (material characterisation and polarimetric radar).

- One more year our colleagues have participated in **ITA 2016 Information Theory and Applications Workshop** (La Jolla, California, EEUU).



- During 2016, the team has attended the **5^o European forum for science, technology and innovation TRANSFIERE 2016** (Malaga, España), professional multisector forum of innovation in Spain, in which attendees can make B2B networking, transfer scientific knowledge and technology research lines, make known their products and innovative services, and understand technologies needs of the public sector.

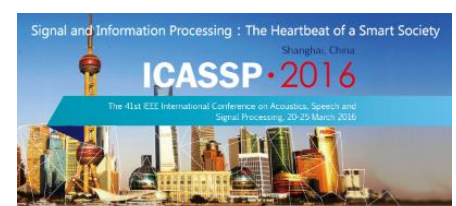


- **Informatics convention and international fair 2016** (La Habana, Cuba) has become an international showcase for scientific developments, new technologies and sector innovations. Luis Anido attended the congress and showed the last outcomes of his research group:
 - Semantic search for educational resources.
 - Early and ecological detection of cognitive impairment through serious games.

- AtlantTIC researchers participated in a **technology 5G experts panel** (Bologna, Italia) with the aim of providing their knowledge and research outcome on the field, which is foreseen to be fully operational by 2020. The event was attended by major telco operators, telco leader companies, innovative SME and academic institutions.



- Another important event on the calendar has been the **41st IEEE International Conference on Acoustics, Speech and Signal Processing - ICASSP 2016** (Shanghai, China),



one of the most important international technical conferences in the field of signal processing and applications.

- The city of Abu Dhabi hosted the **2016 edition of Global Engineering Education**, organized by the IEEE. This annual meeting provides a forum for the exchange of knowledge for teaching and research centers, researchers, as well as for the collaboration of the industrial environment in the field of engineering applied to teaching.



- Also relevant has been the participation in the 10th edition of the European Conference on Antennas and Propagation - **EUCAP (Davos, Switzerland)**, an event in which the most important international professionals and associations in the field of antennas and propagation, giving rise to the international forum of reference on the main challenges that these communities face.



- Special mention should receive the participation of the 4th ACM Workshop on Information Hiding & Multimedia Security - **IH & MMSec2016** (Vigo, Spain), the most important international event in the area of multimedia security and data hiding and has brought to Vigo researchers from Europe, America and Asia that presented the most recent R & D results in this field. This year, the Signal Processing and Communications Group (GPSC), led by Fernando Pérez González, was responsible for organizing this international meeting.



- It is also important to highlight the participation in the **Congress on Computer Science and Information Systems MCCSIS 2016** (Funchal, Portugal), one of the most important international events in the field of information systems, computer sciences and related knowledge areas.



- The GPSC team has taken part of the **4th EURASIP-IEEE Spanish workshop on Signal Processing, Information Theory and Communication - SIC'16**, an international event addressed as main topic the transformation of signal and learning of algorithms, information and communications, theory and applications to communication systems.

- This year, the AtlantTIC team took part in **ASMS / SPSC 2016** (Palma de Mallorca, Spain), a combined event hosting the international conference on advanced multimedia systems for satellites and the workshop on signal processing for space communications.



- We organized in Vigo the fifth consortium meeting of the WITDOM project, a European research project focused on finding mechanisms to ensure that users' data are protected at all times.



- AtlantTIC participated at the **IEEE Globecom** (Washington DC, USA, one of the most emblematic conferences of the IEEE Communications Society (ComSoc), together with IEEE ICC. This event brings together every edition of scientists, researchers and professionals from around the world, making this event one of the most important scientific forums in networks and communications.



2.2. Research excellence

One more year, AtlantTIC is committed to the participation in national and international actions to enhance the Center's research activity, as well as to maximize the productivity and capacity of researchers. All this with the ultimate aim of incorporating talent into the team and favoring the mobility of our engineers thanks to the stays in centers and universities of international prestige.

- Part of this strategy of boosting research excellence is the collaboration with the Doctoral International Doctoral Program, which seeks to train the best professionals and researchers in the field of Telecommunication Technologies, generate research of quality and international impact and provide to the industry professionals with advanced knowledge that allow them to improve their competitiveness on a global scale.



- This year, Professor of Signal Theory and Communications **Fernando Pérez González** has earned the IEEE Fellow award, a distinction reserved only for the most prominent members of the Institute of Electrical and Electronics Engineers (IEEE).



- Another prominent member of the AtlantTIC research team in 2016 has been Professor **Jose Pazos Arias**, who has been a Numerary Scholar of the Royal Galician Academy of Sciences (RAGC).



- The role of women in technology was highlighted by Professor **Carmen García Mateo** - Maria Josefa Wonenburger award in 2014 -, who was named member by election of the Plenary Council of the Galician Culture Council.



- Professor **Ramón C. Hermida** has become a Fellow of the American Society of Hypertension (ASH), a distinction reserved only for the most outstanding members in recognition of the international community for professional achievements and research work.



- For the second consecutive year, AtlantTIC has been strongly committed to international projection, highlighting support for European initiatives such as the **ESNC Galician Community Challenge**, an international innovation contest that rewards the best ideas for the development of satellite navigation applications and the Galileo system.



- And for the second year in a row, AtlantTIC researchers have won the **prize** for the Galician regional phase of the **ESNC 2016 Galileo Masters**.



- The **young researcher Anxo Tato Arias** won one of the Awards for the Best End-of-Career Projects, Master's End Work, Doctoral Thesis and Academic Trajectories in Telecommunication Engineering awarded by the Official College of Telecommunication Engineers. Tato Arias has won the **HISPASAT Award for Best End-of-Course Project in New Technologies for Communications Satellites**.



3. AtlantTIC Quick Facts, 2016

It is difficult to synthesize a year of work in numbers, but perhaps the following indicators give a fairly accurate picture of the work of the center during 2016:



In a more detailed and structured way we show the main indicators of the center during 2016:

CAPACITIES	
Research Staff	165
Postdoctoral	16
Predocctoral	38
Technical Staff	32
RESEARCH ACTIVITY AND SCIENTIFIC PRODUCTION	
R&D Funds	4,4 M€
Publications Total (WoS o Scopus)	176
Papers Q1	42
VALORIZATION AND RESEARCH TRANSFER	
Active contracts	39
R&D and Transfer contracts	2,38 M€
SCIENTIFIC CAREER	
Students enrolled in the DoctIC program	78
Thesis presented (2016)	18

4. Research projects

4.1. Relevant Research Projects in 2016

The participation in two new European projects is highlighted next:

Crosscult, a paradigm Project of transversality

Crosscult project is a European initiative (aligned with the Reflective-6 call of the H2020 program) aimed at promoting the spread of European culture and history by all countries. Crosscult intends to use the technology of the semantic web to promote the reuse of



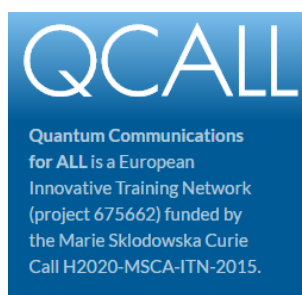
the entire volume of digital content that already exists, beyond the area of influence of a particular museum, forming part of diverse narratives, constructed from which each individual or group may consider interesting or relevant at any time. In short, it is a question of interconnecting resources, realities, objects, linking contexts ... mixing all that and extracting narratives from history that tell something, or make others understand the opinions, or leave an open space for reflection.

With 11 partners of 7 European countries, Crosscult has been funded with EUR 3.5M by the Commission.



Quantum Communications for ALL, safety communications advanced R&D

Quantum Communications for ALL (QCALL) is a European research project regarding quantum communications technologies. This is an Innovative Training Network, an R&D scheme which is built as an international network of companies and institutions with the aim of training high-level professionals in a specific field during four years.



The QCALL main goal is to provide secure communications, but also to make secure our connections around the world by means of networks based on optic fiber and satellite links. QCALL is a collaborative project oriented to network security at continental level, through the training of experts in future quantum technologies.

With a budget of EUR 4 million, QCALL is composed of 8 principal partners hosting the doctoral students in their premises, where they will get the research training.

5. Annex 1: List of research projects in 2016

5.1.1. International calls

Title	QUANTUM COMMUNICATIONS FOR ALL
Reference	H2020-MSCA-ITN-2015, project ID 675662
Entity	Comisión Europea (European Innovative Training Network)

Title	CROSSCULT: EMPOWERING REUSE OF DIGITAL CULTURAL HERITAGE IN CONTEXT-AWARE CROSSCUTS OF EUROPEAN HISTORY Empresa/Administración financiadora:
Reference	(Nº AGREEMENT 693150)
Entity	Unión Europea, Horizonte 2020

Title	WITDOM, EMPOWERING PRIVACY AND SECURITY IN NON-TRUSTED ENVIRONMENTS
Reference	Project No 644371, Call No H2020-ICT-2014-1
Entity	Unión Europea, Horizonte 2020

Title	GREENIT FOR THE BENEFIT OF CIVIL SOCIETY
Reference	
Entity	Education, Audiovisual and Culture Executive Agency

Title	EUROPE AND LATIN AMERICA INNOVATION AND KNOWLEDGE ACADEMIC NETWORK (EUROINKANET)
Reference	
Entity	Education, Audiovisual and Culture Executive Agency.

Title	GREENTECH: SMART AND GREEN TECHNOLOGIES FOR INNOVATIVE AND SUSTAINABLE SOCIETIES IN WESTERN BALKANS
Reference	
Entity	Education, Audiovisual and Culture Executive Agency.

Title	E-GOV-TN: OPEN GOVERNMENT DATA IN TUNISIA FOR SERVICE INNOVATION AND TRANSPARENCY
Reference	
Entity	Education, Audiovisual and Culture Executive Agency.

Title	MOMATE. MODERNISER LA FORMATION SUR LES ER AU MAGHREB: TRANSFERT DE L'EXPÉRIENCE
Reference	
Entity	Education, Audiovisual and Culture Executive Agency.

Title	MARMOOC: APPRENTISSAGE HYBRIDE MUTUALISÉ ET OUVERT DANS LES UNIVERSITÉS MAROCAINES
-------	---

Reference	
Entity	Education, Audiovisual and Culture Executive Agency.

Title	EVAL: EXPLOITATION DES COMPÉTENCES ET VALORISATION DES ACQUIS
Reference	
Entity	Education, Audiovisual and Culture Executive Agency.

Title	LMPI: LICENCE, MASTER PROFESSIONNELS POUR LE DÉVELOPPEMENT, L'ADMINISTRATION, LA GESTION, LA PROTECTION DES SYSTÈMES ET RÉSEAUX INFORMATIQUES DANS LES ENTREPRISES
Reference	
Entity	Education, Audiovisual and Culture Executive Agency.

Title	EXPERES: LES TICE APPLIQUÉES À L'EXPÉRIMENTATION SCIENTIFIQUE
Reference	
Entity	Education, Audiovisual and Culture Executive Agency.

Title	LEAN AND AGILE PRACTICES LINKING ENGINEERING AND HIGHER EDUCATION TO INDUSTRY (LEAP) (2016 - 1 - EL01 - KA203 – 023624)
Reference	
Entity	Unión Europea: Erasmus +

Title	DEVELOPMENT OF INNOVATIVE ACADEMY ON THE BASIS OF DT TEACHING (DIAMONDT) (2015 - 1 - PL01 - KA203 – 017072)
Reference	
Entity	Unión Europea: Erasmus +

Title	DE-IDENTIFICATION FOR PRIVACY PROTECTION IN MULTIMEDIA CONTENT
Reference	COST IC1206
Entity	EU RTD Framework Programme

Title	WILDFIRE PICOSATELLITE CONSTELLATION&UAVS REMOTE SENSING: ACTIVE FIRE MAPPING AND MANAGEMENT
Reference	FIRE-RS, SOE1/P4/E0437
Entity	Programa de Cooperación Transfronteriza INTERREG V-B

5.1.2. Convocatoria nacional

Title	SPANISH TERAHERTZ NETWORK (SPATEK) MINECO-EXC01
Reference	TEC2015-68766-REDC
Entity	Ministerio de Economía y Competitividad. Plan Estatal de Investigación Científica y técnica y de innovación

Title	ANTENAS REFLECTORAS DE EXPLORACIÓN DE NUEVA GENERACIÓN EN SISTEMAS DE DETECCIÓN EN MILIMÉTRICAS PARA LA RECONSTRUCCIÓN DE IMÁGENES EN MOVIMIENTO EN APLICACIONES DE SEGURIDAD
Reference	TEC2015-65353-R
Entity	Ministerio de Economía y Competitividad. Programa

Title	INRISCO: ANÁLISIS DE COMUNIDADES BASADO EN MINERÍA SOCIAL
Reference	TEC2014-54335-C4-3-R
Entity	Ministerio de Ciencia e Innovación

Title	COOPERATIVE INTELLIGENCE SCHEMES FOR FUTURE INTERNET EMERGING TECHNOLOGIES
Reference	TEC2013-47016-C2-1-R
Entity	Ministerio de Economía y Competitividad

Title	SPORANGIUM: REDES SOCIALES ESPORÁDICAS EN LA NUEVA GENERACION DE SERVICIOS DE INFORMACION A USUARIOS EN MOVIMIENTO EN ENTORNOS INTELIGENTES
Reference	TIN2013-42774-R
Entity	Ministerio de Economía y Competitividad

Title	COMUNICACIONES Y PROCESADO DE SEÑAL EN ESCENARIOS ADVERSOS-2 (COMPASS) Empresa/Administración financiadora:
Reference	TEC2013-47020-C2-1-R
Entity	Ministerio de Economía y Competitividad. Proyectos de I+D+i, del Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de la Sociedad

Title	TRACETHEM: DETECCIÓN MULTIMEDIA Y MULTILINGÜE DE INFORMACIÓN SOBRE PERSONAS
Reference	TEC2015-65345-P
Entity	Ministerio de Economía y Competitividad, Programa

Title	NUEVOS MODELOS NO LINEALES COMPORTAMENTALES DE TRANSISTORES Y TECNOLOGÍAS DE DISEÑO PARA AMPLIFICADORES DE POTENCIA DE BANDA DUAL PARA DRONES MULTICÓPTERO LIGEROS
Reference	TEC2014-60283-C3-3R
Entity	Ministerio de Ciencia e Innovación. Fondos FEDER

Title	DEFINICIÓN DEL SISTEMA, DISEÑO, FABRICACIÓN Y VALIDACIÓN DE
-------	---

	LA CARGA ÚTIL Y SMART NODES DE HUMSAT 2.0
Reference	ESP2013-47935-C4-1-R
Entity	Ministerio de Ciencia e Innovación – Programa Estatal de

Title	INNOVANDO EN TECNOLOGÍAS RADIO PARA REDES 5G. PROPAGACIÓN.
Reference	TEC2014-55735-C03-3R
Entity	Ministerio de Economía y Competitividad

Title	VALOR PRONÓSTICO Y ABORDAJE TERAPÉUTICO DE LA PRESIÓN ARTERIAL AMBULATORIA PARA LA PREDICCIÓN Y REDUCCIÓN DEL RIESGO DE DIABETES
Reference	
Entity	Instituto de Salud Carlos III, Proyectos de Investigación en Salud, Ministerio de Economía y Competitividad (PI14-00205).

5.1.3. Convocatoria Autonómica

Title	COMUNICACIONES CUÁNTICAS SEGURAS CON TECNOLOGÍA FOTÓNICA
Reference	
Entity	Xunta de Galicia EM2014/033 (Proyectos de investigación desarrollados por investigadores emergentes)

Title	CONSOLIDACIÓN E ESTRUCTURACIÓN DE UNIDADES DE INVESTIGACIÓN COMPETITIVA DO SISTEMA UNIVERSITARIO DE GALICIA 2015. GRUPOS DE REFERENCIA COMPETITIVA (GRC)
Reference	
Entity	Xunta de Galicia GRC2015/018

Title	AXUDA GRUPOS DE REFERENCIA COMPETITIVA
Reference	
Entity	Consellería de Innovación e Industria (Xunta de Galicia). Ayuda para la Consolidación y Estructuración de Unidades de Investigación Competitivas del Sistema Gallego de I+D+I Convocatoria 2013

Title	AXUDA GRUPOS DE REFERENCIA COMPETITIVA
Reference	GRC2013-006
Entity	Consellería de Innovación e Industria (Xunta de Galicia). Ayuda para la Consolidación y Estructuración de Unidades de Investigación Competitivas del Sistema Gallego de I+D+I Convocatoria 2013

Title	CONVENIO DE COLABORACIÓN ENTRE A CONSELLERÍA DE CULTURA, EDUCACIÓN E ORDENACIÓN UNIVERSITARIA E A UNIVERSIDADE DE VIGO PARA O FINANCIAMENTO DO CENTRO DE INVESTIGACIÓN
-------	--

	ATLANTTIC
Reference	
Entity	Consellería de Cultura Educación e Ordenación Universitaria, Xunta de Galicia

Title	PROGRAMA DE CONSOLIDACIÓN E ESTRUCTURACIÓN DE UNIDADES DE INVESTIGACIÓN COMPETITIVAS (MODALIDADE "GRUPO DE REFERENCIA COMPETITIVA")
Reference	Expediente GRC2013/009
Entity	Xunta de Galicia. Consellería de Educación e Ordenación Universitaria

Title	PROGRAMA DE CONSOLIDACIÓN E ESTRUCTURACIÓN DE UNIDADES DE INVESTIGACIÓN COMPETITIVAS (MODALIDADE "GRUPO DE REFERENCIA COMPETITIVA")
Reference	Expediente GRC2014/024
Entity	Xunta de Galicia. Consellería de Educación e Ordenación Universitaria

Title	PROGRAMA DE CONSOLIDACIÓN Y ESTRUCTURACIÓN DE UNIDADES DE INVESTIGACIÓN COMPETITIVAS. MODALIDAD GRUPOS DE REFERENCIA COMPETITIVA
Reference	GRC 2015/019
Entity	Xunta de Galicia

Title	CONSOLIDACIÓN Y ESTRUCTURACIÓN DE LA UNIDAD DE INVESTIGACIÓN "LABORATORIO DE BIOINGENIERÍA Y CRONOBIOLOGÍA" DEL SISTEMA GALLEGO DE INVESTIGACIÓN E INNOVACIÓN
Reference	
Entity	Xunta de Galicia (GPC2014/078)

6. Annex 2: Scientific production

6.1. Papers in journals

1. A. Shams, B. Lorenzo, S. Glisic, J. Pérez Romero, L. DaSilva, A. Mackenzie, J. Roning. (2016). A framework for Dynamic Network Architecture and Topology Optimization. IEEE/ACM Transactions on Networking, Vol. 24, Núm. 2, Págs. 717-730. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 1210-2512. Q1.
2. R. W. Heath; N. González-Prelcic; S. Rangan; W. Roh; A. Sayeed. (2016). An Overview of Signal Processing Techniques for Millimeter Wave MIMO Systems. IEEE Journal of Selected Topics in Signal Processing, Vol. 10, Núm. 3, Págs. 436-453. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 1210-2512. Q1.
3. Hermida RC, Ayala DE, Mojón A, Fernández JR. (2016). Bedtime ingestion of hypertension medications

<p>reduces the risk of new-onset type 2 diabetes: a randomised controlled trial. <i>Diabetologia</i>, Vol. 59, Núm. 2, Págs. 255-265. Springer, (Alemania). 1687-5869. Q1.</p>
<p>4. Andrés Macho, Carlos García Meca, F. Javier Fraile Peláez, Maria Morant, Roberto Llorente. (2016). Birefringence effects in multi-core fiber: coupled local-mode theory. <i>Optics Express</i>, Vol. 24, Núm. 19, Págs. 21415-21434. Optical Soc Amer, (EEUU). 1687-5869. Q1.</p>
<p>5. Francisco de Arriba Pérez, Manuel Caeiro Rodríguez, Juan Manuel Santos Gago. (2016). Collection and processing of data from wrist wearable devices in heterogeneous and multiple-user scenarios. <i>Sensors</i>, Vol. 16, Núm. 9, Págs. 11324. MDPI Publishing, (Suiza). 1536-1225. Q1.</p>
<p>6. B. Lorenzo, S. Glisic. (2016). Compressed Control of Complex Wireless Networks. <i>IEEE Transactions on Wireless Communications</i>, Vol. 15, Núm. 8, Págs. 5775-5788. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0018-926X. Q1.</p>
<p>7. Romero D, Ariananda DD, Tian Z, Leus G. (2016). Compressive Covariance Sensing: Structure-Based Compressive Sensing Beyond Sparsity. <i>IEEE Signal Processing Magazine</i>, Vol. 33, Núm. 1, Págs. 78-93. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 1536-1225. 1D.</p>
<p>8. R. Kazemi, F. Perez-Gonzalez, M.A. Akhaee and F. Behnia. (2016). Data hiding robust to mobile communication vocoders. <i>IEEE Transactions on Multimedia</i>, Vol. 18, Núm. 12, Págs. 2345-2357. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 1094-4087. 1D.</p>
<p>9. K. Tamaki, M. Curty, M. Lucamarini. (2016). Decoy-state quantum key distribution with a leaky source. <i>New Journal of Physics</i>, Vol. 18, Núm. 65008, Págs. 45292. IOP Publishing Ltd, (Inglaterra). 0030-4018. Q1.</p>
<p>10. Paula Gómez-Pérez, Iñigo Cuiñas. (2016). Degradation of ground-based RADAR performance due to vegetation cover. <i>Measurement</i>, Vol. 92, Núm. , Págs. 230-235. Elsevier SCI LTD, (Inglaterra). 0146-9592. Q1.</p>
<p>11. Simon Oya, Fernando Pérez-González and Carmela Troncoso. (2016). Design of Pool Mixes Against Profiling Attacks in Real Conditions. <i>IEEE/ACM Transactions on Networking</i>, Vol. 24, Núm. 6, Págs. 3662-3675. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 1367-2630. Q1.</p>
<p>12. C. Rusu, N. González-Prelcic. (2016). Designing Incoherent Frames Through Convex Techniques for Optimized Compressed Sensing. <i>IEEE Transactions on Signal Processing</i>, Vol. 64, Núm. 9, Págs. 2334-2344. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0018-926X. Q1.</p>
<p>13. Ismael F. Aymerich, Marc Oliva, Santiago Giralte, Julio Martín Herrero. (2016). Detection of Tephra Layers in Antarctic Sediment Cores with Hyperspectral Imaging. <i>PLOS ONE Journal</i>, Vol. 2016, Núm. , Págs. 45292. Public Library Science, (EEUU). 0030-4018. Q1.</p>
<p>14. Hermida RC, Ayala DE, Mojón A, Fernández JR. (2016). Elevated asleep BP as predictor of type 2 diabetes and therapeutic target for prevention. <i>Diabetologia</i>, Vol. 59, Núm. 2, Págs. 392-394. Springer, (Alemania). 0030-4018. Q1.</p>
<p>15. Hermida RC, Ayala DE, Mojón A, Fernández JR. (2016). Erratum to: Bedtime ingestion of hypertension medications reduces the risk of new-onset type 2 diabetes: a randomised controlled trial. <i>Diabetologia</i>,</p>

Vol. 59, Núm. , Págs. 395. Springer, (Alemania). 1536-1225. Q1.
16.C. Rusu, González-Prelcic, N., and Heath, Jr., R. W.. (2016). Fast Orthonormal Sparsifying Transforms Based on Householder Reflectors. IEEE Transactions on Signal Processing, Vol. 64, Núm. 24, Págs. 6589-6599. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0018-9219. Q1.
17.Y. Alvarez López, Y. Rodríguez Vaqueiro, B. González Valdés, F. Las Heras, A. García Pino. (2016). Fourier-based imaging for subsampled multistatic arrays. IEEE Transactions on Antennas and Propagation, Vol. 64, Núm. 6, Págs. 2557-2562. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0018-926X. Q1.
18.A. B. Serrano Montes, J. Langer, M. Henriksen Lacey, D. Jimenez de Aberasturi, D. M. Solís, J. M. Taboada, F. Obelleiro, K. Sentosun, S. Bals, A. Bekdemir, F. Stellacci, L. M. Liz Marzan. (2016). Gold Nanostar-Coated Polystyrene Beads as Multifunctional Nanoprobes for SERS Bioimaging. Journal of Physical Chemistry C, Vol. 120, Núm. 37, Págs. 20860-20868. Amer Chemical Soc, (EEUU). 0018-9480. Q1.
19.L. F. Sánchez, M. G. Araujo, I. García Tuñón, J. L. Rodríguez, D. M. Solís, J. M. de los Reyes, J. M. Taboada, F. Obelleiro. (2016). HF broadband antenna design for shipboard communications: Simulation and measurements. Measurement, Vol. 89, Núm. , Págs. 13-20. Elsevier Sci Ltd, (Inglaterra). 1932-7447. 1D.
20.David Ferreira, Luís Sismeiro, Adelino Ferreira, Rafael F. S. Caldeirinha, Telmo R. Fernandes, Iñigo Cuiñas. (2016). Hybrid FSS and rectenna design for wireless power harvesting. IEEE Transactions on Antennas and Propagation, Vol. 64, Núm. 5, Págs. 2038-2042. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 1759-0787. 1D.
21.Daniel A. Rodríguez Silva, Jaime Loureiro Acuña, Francisco J. González Castaño, Cristina López Bravo. (2016). Improving the virtualization of rich applications by combining VNC and streaming protocols at the hypervisor layer. Expert Systems with applications, Vol. 46, Núm. 5, Págs. 625-644. Elsevier, (EEUU). 0018-926X. 1D.
22.S. Sajeed, A. Huang, S. Sun, F. Xu, V. Makarov, M. Curty. (2016). Insecurity of detector-device-independent quantum key distribution. Physical Review Letters, Vol. 117, Núm. 250505, Págs. 42917. Amer Physical Soc, (EEUU). 0018-926X. 1D.
23.C. Rusu, R. Méndez-Rial, N. González-Prelcic and R. W. Heath. (2016). Low Complexity Hybrid Precoding Strategies for Millimeter Wave Communication Systems. IEEE Transactions on Wireless Communications, Vol. 15, Núm. 12, Págs. 8380 - 8393. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 1094-4087. 1D.
24.I. V. Puthoor, R. Amiri, P. Wallden, M. Curty, E. Andersson. (2016). Measurement-device-independent quantum digital signatures. Physical Review, Vol. A94, Núm. 22328, Págs. 43040. Amer Physical Soc, (EEUU). 1050-2947. 1D.
25.Borja González Valdés, Yuri Álvarez, Yolanda Rodríguez Vaqueiro, Ana Arboley, Fernando Las Heras, Antonio García Pino, Carey M. Rappaport, José Ángel Martínez. (2016). Millimeter Wave Imaging Architecture for On-The-Move Whole Body Imaging. IEEE Transactions on Antennas and Propagation, Vol. 64, Núm. 6, Págs. 2328-2338. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 1936-0851. Q1.
26.Junil Choi, Nuria González-Prelcic, Robert Daniels, Chandra R. Bhat, and Robert W. Heath Jr.. (2016). Millimeter Wave Vehicular Communication to Support Massive Automotive Sensing. IEEE Communications

Magazine, Vol. 54, Núm. 12, Págs. 160-167. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0030-4018. Q1.
27.J. Sala, Vázquez-Vilar, G., López-Valcarce, R., Sedighi, S., and Taherpour, A. (2016). Multiantenna GLR Detection of Rank-One Signals with Known Power Spectral Shape under Spatially Uncorrelated Noise. IEEE Transactions on Signal Processing, Vol. 64, Núm. 23, Págs. 6269-6283. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0018-926X. Q1.
28.Jack F. Bravo Torres, Martín López Nores, Yolanda Blanco Fernández, José J. Pazos Arias, Manuel Ramos Cabrer, Alberto Gil Solla. (2016). Optimising Reactive Routing over Virtual Nodes in VANETs. IEEE Transactions on Vehicular Technology, Vol. 65, Núm. 4, Págs. 2274-2294. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 1749-4885. Q1.
29.Ana Sánchez Iglesias, Javier Barroso, Diego M. Solís, J. M. Taboada, Fernando Obelleiro, Valeri Pavlov, Andrey Chuvilin, Marek Grzelczak. (2016). Plasmonic substrates comprising gold nanostars efficiently regenerate cofactor molecules. Journal of Materials Chemistry A, Vol. , Núm. , Págs. 42948. Royal Soc Chemistry, (Inglaterra). 0895-2477. Q1.
30.J. Pérez Romero, J. Sánchez González, R. Agusti, B. Lorenzo, S. Glisic. (2016). Power efficient resource allocation in a heterogeneous network with cellular and D2D capabilities. IEEE Transactions on Vehicular Technology, Vol. 65, Núm. 11, Págs. 9272-9286. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 1050-2947. Q1.
31.Salles GF, Reboldi G, Fagard RH, Cardoso C, Pierdomenico SD, Verdecchia P, Eguchi K, Kario K, Hoshida S, Polonia J, de la Sierra A, Hermida RC, Dolan E, O'Brien E, Roush G, The ABC-H Investigators. (2016). Prognostic effect of the nocturnal blood pressure fall in hypertensive patients: The ambulatory blood pressure collaboration in patients with hypertension (ABC-H) meta-analysis. Hypertension, Vol. 67, Núm. 4, Págs. 693-700. Lippincott Williams & Wilkins, (EEUU). 1745-2473. Q1.
32.C. Rusu, González-Prelcic, N., and Heath, Jr., R. W. (2016). Properties of real and complex ETFs and their application to the design of low coherence frames. Linear Algebra and its Applications, Vol. 508, Núm. , Págs. 81-90. ELSEVIER SCIENCE INC, (EEUU). 2041-1723. Q1.
33.Javier Sanz Valero, Luis M. Álvarez, Carmen Wanden, Juan M. Santos. (2016). QR codes: Outlook for food science and nutrition. Critical Reviews in Food Science and Nutrition, Vol. 56, Núm. 6, Págs. 973-978. Taylor & Francis Inc, (EEUU). 1041-1135. Q1.
34.Pengfei Xia, Robert W. Heath Jr., Nuria González-Prelcic. (2016). Robust Analog Precoding Designs for Millimeter Wave MIMO Transceivers with Frequency and Time Division Duplexing. IEEE Trans. on Communications, Vol. 64, Núm. 11, Págs. 4622-4634. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0022-4596. Q1.
35.Edgar Lemos Cid, Ana Vázquez Alejos, Manuel García Sánchez. (2016). Signaling Through Scattered Vegetation: Empirical Loss Modeling for Low Elevation Angle Satellite Paths Obstructed by Isolated Thin Trees. IEEE Vehicular Technology Magazine, Vol. 11, Núm. 3, Págs. 1556-6072. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0733-8724. Q1.
36.Hermida RC, Ayala DE, Mojón A, Fernández JR. (2016). Sleep-time BP: prognostic marker of type 2 diabetes

<p>and therapeutic target for prevention. <i>Diabetologia</i>, Vol. 59, Núm. , Págs. 244-254. Springer, (Alemania). 1436-3240. Q1.</p>
<p>37.L. Gallucio, B. Lorenzo, S. Glisic. (2016). Sociality-aided new adaptive infection recovery schemes for multicast DTNs. <i>IEEE Transactions on Vehicular Technology</i>, Vol. 65, Núm. 5, Págs. 3360-3376. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0018-926X. Q1.</p>
<p>38.María Calviño Cancela, Julio Martín Herrero. (2016). Spectral Discrimination of Vegetation Classes in Ice-Free Areas of Antarctica. <i>Remote Sensing</i>, Vol. 8, Núm. 10, Págs. 42005. MDPI AG, (Suiza). 0031-9007. Q1.</p>
<p>39.Pedro Chamorro Posada, José Vázquez Cabo, Óscar Rubiños López, Jesús Martín Gil, Salvador Hernández Navarro, Pablo Martín Ramos, Francisco M. Sánchez Arévalo, Albert V. Tamashausky, César Merino Sánchez, Roberto C. Dante. (2016). THz TDS study of some carbon sp² carbon materials: graphite, needle coke and graphene oxides. <i>Journal Carbon</i>, Vol. 98, Núm. , Págs. 484-490. Pergamon-Elsevier Science Ltd, (EEUU). 1367-2630. 1D.</p>
<p>40.Sonia Valladares Rodríguez, Roberto Pérez Rodríguez, Luis Anido Rifón, Manuel Fernández Iglesias. (2016). Trends on the Application of Serious Games to Neuropsychological Evaluation: A Scoping Review. <i>Journal of Biomedical Informatics</i>, Vol. 64, Núm. , Págs. 296-319. Academic Press Inc Elsevier Science, (EEUU). 1045-9243. 1D.</p>
<p>41.Milagros Fernández Gavilanes, Tamara Álvarez López, Jonathan Juncal Martínez, Enrique Costa Montenegro, Francisco Javier González Castaño. (2016). Unsupervised method for Sentiment Analysis in online texts. <i>Expert Systems with applications</i>, Vol. 58, Núm. 1, Págs. 57-75. Elsevier, (EEUU). 1944-8244. 1D.</p>
<p>42.E.Lemos, M.G.Sánchez, A.V. Alejos. (2016). Wideband Analysis of the Satellite Communication Channel at Ku and X bands. <i>IEEE Transactions on Vehicular Technology</i>, Vol. 65, Núm. 4, Págs. 2787-2790. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 2330-4022. Q1.</p>
<p>43.Nuno R. Leonor, Rafael F. S. Caldeirinha, Manuel García Sánchez, Member, Telmo R. Fernandes. (2016). A Three-dimensional Directive Antenna Pattern Interpolation Method. <i>IEEE Antennas and Wireless Propagation Letters</i>, Vol. 15, Núm. , Págs. 881-884. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0018-926X. Q2.</p>
<p>44.Victor M. Alonso, Juan M. Santos, Luis M. Álvarez, Mateo Ramos. (2016). An ICT-based platform to monitor protocols in the healthcare environment. <i>Journal of Medical Systems</i>, Vol. 40, Núm. 10, Págs. 42917. Springer, (EEUU). 1559-8985. Q2.</p>
<p>45.Hermida RC, Ayala DE, Smolensky MH, Fernández JR, Mojón A, Portaluppi F. (2016). Chronotherapy with conventional blood pressure medications improves management of hypertension and reduces cardiovascular and stroke risks. <i>Hypertension Research</i>, Vol. 39, Núm. , Págs. 277-292. Nature Publishing Group, (Japón). 0740-3224. Q2.</p>
<p>46.Smolensky MH, Hermida RC, Reinberg A, Sackett Lundeen L, Portaluppi F. (2016). Circadian disruption: New clinical perspective of disease pathology and basis for chronotherapeutic intervention. <i>Chronobiology International</i>, Vol. 33, Núm. 7, Págs. 1101-1119. Taylor & Francis Inc, (EEUU). 1943-0655. Q2.</p>

47. Tejedor J, Torre-Toledano D, López Otero P, Docío Fernández L, García Mateo C.. (2016). Comparison of ALBAYZIN query-by-example spoken term detection 2012 and 2014 evaluations. EURASIP Journal on Audio, Speech, and Music Processing, Vol. 2016, Núm. , Págs. 42370. Springer International Publishing AG, (EEUU). 0021-9797. Q2.
48. López Otero P, Docío Fernández L, García Mateo C.. (2016). Ensemble audio segmentation for Radio and Television Programmes. Springer Multimedia Tools and Applications, Vol. 2016, Núm. , Págs. 45292. Springer, (Países Bajos). 0030-4018. Q2.
49. López Otero P, Docío Fernández L, García Mateo C. (2016). Finding Relevant Features for Zero-Resource Query-by-Example Search on Speech. Speech communication, Vol. 84, Núm. , Págs. 24-35. Elsevier Sci BV, (Países Bajos). 1077-260X. Q2.
50. R. Méndez-Rial, C. Rusu, N. González-Prelcic, A. Alkhateeb and R. W. Heath. (2016). Hybrid MIMO Architectures for Millimeter Wave Communications: Phase Shifters or Switches?. IEEE Access, Vol. 4, Núm. , Págs. 247-267. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 1749-4885. Q2.
51. Borja González Valdés, Yuri Álvarez, Mantzavinos Spiros, Carey M. Rappaport, Fernando Las Heras, José Ángel Martínez Lorenzo. (2016). Improving Security Screening: A Comparison of Multistatic Radar Configurations for Human Body Imaging. IEEE Antennas and Propagation Magazine, Vol. 58, Núm. 4, Págs. 35-47. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0018-9480. Q2.
52. Rico-Alvariño, A, Arnau, J, Mosquera, C ,. (2016). Link Adaptation in Mobile Satellite Links: Schemes for Different Degrees of CSI Knowledge. International Journal of Satellite Communications and Networking, Vol. 34, Núm. 5, Págs. 679-694. John Wiley & Sons Ltd., (Inglaterra). 0018-926X. Q2.
53. André G. C. Guerra, Frederico Francisco, Jaime Villate, Fernando Aguado Agelet, Orfeu Bertolami, Kanna Rajan. (2016). On Small Satellites for Oceanography: A Survey. Acta Astronautica, Vol. 127, Núm. , Págs. 404-423. Pergamon-Elsevier Science Ltd, (EEUU). 1099-4300. Q2.
54. Paula Gómez-Pérez, Rafael F.S. Caldeirinha, Telmo R. Fernandes, Iñigo Cuiñas. (2016). Retrieving Vegetation Reradiation Patterns by Means of Artificial Neural Networks. IEEE Antennas and Wireless Propagation Letters, Vol. 15, Núm. , Págs. 1097-1100. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0306-8919. Q2.
55. M. Kvicera, J. Israel, F. Pérez Fontán, P. Pechac. (2016). Sensitivity analysis of multiple scattering theory applied to tree canopies at microwave frequencies. IEEE Antennas and Wireless Propagation Letters, Vol. 15, Núm. , Págs. 1175-1178. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0030-4018. Q2.
56. David Santos-Domínguez, Soledad Torres-Guijarro, Antonio Cardenal-López, Antonio Pena-Gimenez. (2016). ShipsEar: An underwater vessel noise database. Applied Acoustics, Vol. 113, Núm. , Págs. 64-69. Elsevier Sci Ltd, (Inglaterra). 2469-9926. Q2.
57. Hermida RC. (2016). Sleep-time ambulatory blood pressure as a prognostic marker of vascular and other risks and therapeutic target for prevention by hypertension chronotherapy: Rationale and design of the Hygia Project. Chronobiology International, Vol. 33, Núm. 7, Págs. 906-936. Taylor & Francis Inc, (EEUU). 0733-8724. Q2.

58.D. M. Solís, F. Obelleiro, J. M. Taboada. (2016). Surface Integral Equation-Domain Decomposition Scheme for Solving Multi-scale Nanoparticle Assemblies with Repetitions. IEEE Photonics Journal, Vol. 8, Núm. 5, Págs. 4803014-1 - 4803014-14. IEEE-Inst Electrical Electronics Engineers Inc, (EEUU). 0022-4596. Q2.
59.Victor M. Rorís, Luis M. Álvarez, Juan M. Santos, Mateo Ramos. (2016). Towards a cost-effective and reusable traceability system. A semantic approach. Computers in Industry, Vol. 83, Núm. , Págs. 43040. Elsevier, (Países Bajos). 0018-9480. Q2.
60.E. Sousa Vieira, J. C. López Ardao, M. Fernández Veiga, M. Rodríguez Pérez, S. Herrería Alonso. (2016). An Open-Source Platform for Using Gamification and Social Learning Methodologies in Higher Education: Design and Experience. Computer Applications in Engineering Education, Vol. , Núm. , Págs. 2963-2973. Wiley-Blackwell, (EEUU). 0013-5194. Q3.
61.Roberto Pérez Rodríguez, Luis Anido Rifón, Miguel Gómez Carballa, Marcos Mouriño García. (2016). Architecture of a concept-based information retrieval system for educational resources. Science of Computer Programming, Vol. 129, Núm. , Págs. 72-91. Elsevier, (Países Bajos). 1527-3342. Q3.
62.Hermida RC. (2016). Cronoterapia de la hipertensión arterial y glaucoma: Respuesta. Medicina Clinica, Vol. 146, Núm. 1, Págs. 46-47. Elsevier Doyma SL, (España). 1751-8725. Q3.
63.David Ferreira, Rafael F.S. Caldeirinha, Iñigo Cuiñas, Telmo R. Fernandes. (2016). Dual-Band Single-Layer Quarter Ring Frequency Selective Surface for Wi-Fi applications. IET Microwaves, Antennas and Propagation, Vol. 10, Núm. 4, Págs. 435-441. Inst Engineering Technology-IET, (Inglaterra). 0948-695x. Q3.
64.Verónica Crespo Pereira, Valentín Alejandro Martínez Fernández, Pilar García Soidán. (2016). El profesional del neuromarketing en el sector audiovisual español. El profesional de la información, Vol. 25, Núm. 2, Págs. 209-216. EPI SCP, (España). 1932-4530. Q3.
65.Edgar Lemos Cid, Manuel Garcia Sánchez, Ana Vazquez Alejos. (2016). Experimental assessment of excess loss prediction models for satellite-to-Earth radio links shadowed by single in-leaf trees. IET Microwaves, Antennas & Propagation, Vol. 10, Núm. 2, Págs. 141-146. Inst Engineering Technology-IET, (Inglaterra). 1932-8540. Q3.
66.Mohamed ben Khalifa, Rebeca P. Díaz Redondo, Ana Fernández Vilas, Sandra Servia Rodríguez. (2016). Identifying urban crowds using geo-located Social media data: a Twitter experiment in New York City. Journal of Intelligent Information Systems, Vol. 2016, Núm. , Págs. 44562. Springer, (Países Bajos). 0360-1315. Q3.
67.T. Luque-Martínez, L. Doña-Toledo and D. Docampo. (2016). Influencia del programa Campus de Excelencia Internacional en la posición de las universidades españolas en el ranking de Shanghái. Revista Española de Documentación Científica, Vol. 39, Núm. 3, Págs. 42005. Consejo Superior de Investigaciones Científicas (CSIC), (España). 1044-7318. Q3.
68.María González-Domínguez, David Bao, Sebastián Dadín, Iñigo Cuiñas, Manuel García Sánchez. (2016). Measuring in-situ reflection coefficients due to road pavements at 5.9 GHz. IET Electronics Letters, Vol. 52, Núm. 12, Págs. 2072 - 2074. Inst. Engineering Technology-IET, (Inglaterra). 1936-6612. Q3.
69.Hermida RC, Ayala DE. (2016). Presión arterial ambulatoria, cronoterapia de hipertensión y glaucoma.

<p>Medicina Clinica, Vol. 146, Núm. , Págs. 30-34. Elsevier Doyma SL, (España). 0920-5489. Q3.</p>
<p>70. Paula Gómez-Pérez, Iñigo Cuiñas, Marcos Crego-García. (2016). Reduction of RADAR Performance for Target Detection within Forests. Journal of Applied Remote Sensing, Vol. 10, Núm. 2, Págs. 1931-3195. Spie-Soc Photo-Optical Instrumentation Engineers, (EEUU). 0948-695X. Q3.</p>
<p>71. Omar Guillan Lorenzo, Francisco J. Díaz Otero. (2016). Slow light in tunable low dispersión wide bandwidth photonic crystal waveguides infiltrated with magnetic fluids. Optics Communications, Vol. 359, Núm. , Págs. 49-52. Elsevier Science Bv, (Países Bajos). 0920-5489. Q3.</p>
<p>72. Enrique Costa Montenegro, Fátima M García Doval, Jonathan Juncal Martínez, Belén Barragáns Martínez. (2016). SubTitleMe, subtitles in cinemas in mobile devices. Universal Access in the Information Society, Vol. 15, Núm. 3, Págs. 461-472. Springer Heidelberg, (Alemania). 0018-9359. Q3.</p>
<p>73. Roberto C. Dante, Francisco M. Sánchez Árevalo, Pedro Chamorro Posada, José Vázquez Cabo, Lazaro Huerta, Luis Lartundo Rojas, Jaime Santoyo Salazar, Omar Solorza Fera F, Antonio Díaz Barrios, Tamara Zoltan, Franklin Vargas, Tatiana Valenzuela, Florinella Muñoz Bisesti, Francisco Javier Quiroz Chávez. (2016). Synthesis and characterization of Cu-doped polymeric carbon nitride. Fullerenes, Nanotubes and Carbon Nanostructures, Vol. 24, Núm. 3, Págs. 171-180. Taylor & Francis Inc, (EEUU). 0948-695X. Q3.</p>
<p>74. José Vázquez Cabo, Pedro Chamorro Posada, F. Javier Fraile Peláez, Óscar Rubiños López, José M. López Santos, Pablo Martín Ramos. (2016). Windowing of THz time-domain spectroscopy signals: A study based on lactose. Optics Communications, Vol. 366, Núm. , Págs. 386-396. Elsevier Science BV, (Países Bajos). 1932-8540. Q3.</p>
<p>75. H. Gómez Sousa, Ó. Rubiños López, J. Á. Martínez Lorenzo, M. Arias Acuña. (2016). A Computational method for modeling arbitrary junctions employing different Surface integral equation formulations for three-dimensional scattering and radiation problems. Journal of Electromagnetic Waves and Applications, Vol. 30, Núm. 6, Págs. 689-713. Taylor & Francis Ltd, (Países Bajos). 2167-8359. Q4.</p>
<p>76. Azzeddin Naghar, , Francisco Falcone, Ana Vazquez Alejos, Otman Aghzout, David Alvarez Outerelo. (2016). A Simple UWB Tapered Monopole Antenna with Dual Wideband-Notched Performance by Using Single SRR-Slot and Single SRR-Shaped Conductor-Backed Plane. ACES JOURNAL, Vol. 31, Núm. 9, Págs. 1048-1055. Applied Computational Electromagnetics Society, Inc., (EEUU). 1932-8540. Q4.</p>
<p>77. Antonio García Pino. (2016). An Analytical Simplified Model to Characterize Focused Aperture Antennas. International Journal of Microwave and Wireless Technologies, Vol. 8, Núm. 1, Págs. 41-49. Cambridge Univ Press, (Inglaterra). 1932-8540. Q4.</p>
<p>78. E. Sousa Vieira. (2016). Applicability of the Whittle estimator to non-stationary and non-linear long-memory processes. Journal of Simulation, Vol. 10, Núm. 3, Págs. 182-192. Palgrave Macmillan Ltd, (Inglaterra). 1941-6210. 1D.</p>
<p>79. Mario Manso Vázquez, Manuel Caeiro Rodríguez, Martín Llamas Nistal. (2016). Are Learning Software Systems Well-Prepared to Support Self-Regulated Learning Strategies?. International Journal of Engineering Education (IJEE), Vol. 32, Núm. 2b, Págs. 1015-1023. Tempus Publications, (Irlanda). 1089-7798. 1D.</p>

- 80.H. Gómez Sousa, Ó. Rubiños López, J. Á Martínez Lorenzo. (2016). Comparison of iterative solvers for electromagnetic analysis of plasmonic nanostructures using multiple Surface integral equation formulations. *Journal of Electromagnetic Waves and Applications*, Vol. 30, Núm. 4, Págs. 456-472. Taylor & Francis Ltd, (Países Bajos). 0138-9130. 1D.
- 81.P. C Santana, Luis Anido Rifón. (2016). Heuristic Evaluation of an Interactive Television System to Facilitate Elders Home Care. *IEEE Latin America Transactions*, Vol. 14, Núm. 7, Págs. 3455-3460. IEEE, (EEUU). 1386-6710. Q4.
- 82.Manuel Vilares Ferro, Milagros Fernández Gavilanes, Adrián Blanco González, Carlos Gómez Rodríguez. (2016). Intelligent Retrieval for Biodiversity. *International Journal on Artificial Intelligence Tools*, Vol. 25, Núm. 1, Págs. 471-19. World Scientific Publ Co Pte Ltd, (Singapur). 1053-587X. Q4.
- 83.Jack F. Bravo Torres, Yolanda Blanco Fernández, Martín López Nores, José J. Pazos Arias, Manuel Ramos Cabrer, Alberto Gil Solla. (2016). Proactive discovery and management of ride-sharing opportunities in smart Vehicular Ad-hoc NETWORKS. *Information Technology & Control (ITC)*, Vol. 45, Núm. 2, Págs. 121-135. Kaunas Univ Technology, (Lituania). 1432-7643. Q4.
- 84.Helena Piairo, Raquel Menezes, Pilar García Soidán, Inés Sousa. (2016). Spatial-Temporal modellization of the NO2 concentration data through geostatistical tools. *Statistical Methods and Applications*, Vol. 25, Núm. 1, Págs. 107-124. Springer Heidelberg, (Alemania). 0952-1976. Q4.
- 85.Azzedin Naghar, Ana Vazquez Alejos, Otman Aghzout, Mohammad Essaaidi. (2016). Synthesis Design of BandPass Filter for UWB Applications with Improved Selectivity. *Applied Computational Electromagnetics Society Journal*, Vol. 31, Núm. 1, Págs. 414-87. Applied Computational Electromagnetics Society, Inc., (EEUU). 1556-6013. Q4.
- 86.Georg Rehm, Hans Uszkoreit, Sophia Ananiadou, Nuria Bel, Audronė Bielevičienė, Lars Borin, Antonio Branco, Gerhard Budin, Nicoletta Calzolari, Walter Daelemans, Radovan Garabík, Marko Grobelnik, Carmen García-Mateo, Josef van Genabith, Jan Hajič, Inma Hernández, John Judge, Svetla Koeva, Simon Krek, Cvetana Krstev, Krister Lindén, Bernardo Magnini, Joseph Mariani, John McNaught, Maite Melero, Monica Monachini,, Asunción Moreno, Jan Odijk, Maciej Ogrodniczuk, Piotr Pęzik, Stelios Piperidis, Adam Przepiórkowski, Eiríkur Rögnvaldsson, Mike Rosner, Bolette Sandford Pedersen, Inguna Skadiņa, Koenraad De Smedt, Marko Tadić, Paul Thompson, Dan Tufiş Tamás Váradi, Andrejs Vasiljevs, Kadri Vider, Jolanta Zabarskaitė. (2016). The strategic impact of META-NET on the regional, national and international level. *Language Resources & Evaluation*, Vol. 2016, Núm. , Págs. 351-374. Springer, (Países Bajos). 2156-3357. Q4.
- 87.Manuel Caeiro Rodríguez, Melisa Rodríguez Bermúdez, Martín Llamas Nistal, Juan Manuel Santos Gago. (2016). Toward the implementation of relevance and reputation indicators in Edu-AREA. *IEEE-RITA Revista Iberoamericana de Tecnologías del Aprendizaje*, Vol. 11, Núm. 2, Págs. 107-114. IEEE Education Society, (EEUU). 1053-5888. SCOPUS.
- 88.Virginia Rodes Paragarino, Adriana Gewerc Barujel, Martín Llamas Nistal. (2016). Use of Repositories of Digital Educational Resources: State-of-the-Art Review. *IEEE-RITA Revista Iberoamericana de Tecnologías del Aprendizaje*, Vol. 11, Núm. 2, Págs. 73-78. IEEE Education Society, (EEUU). 1070-9908. SCOPUS.
- 89.Victor M. Rorís, Luis M. Álvarez, C. Wanden-Berghe, Juan M. Santos, Javier Sanz-Valero. (2016). Towards a

mobile-based platform for traceability control and hazard analysis in the context of Parenteral Nutrition: Description of a Framework and a Prototype App. JMIR Research Protocols, Vol. 5, Núm. 2, Págs. 43070. JMIR Publications, (Canadá). 1053-5888. wos.

6.2. Congresses

1. Tanja Pelzmann, Thomas Jost, Martín Schwinzerl, Fernando Pérez Fontán, Michael Schönhuber, Nicolas Flourey. (2016). Airborne Measurements Enhancing the Satellite to Aircraft / Helicopter Channel Model in Lband. 10th European Conference on Antennas and Propagation - EuCAP. 10 - 15 Abril. Davos (Suiza).
2. Spiros Ventouras, Fernando Pérez Fontán, Armando C Rocha, Flávio M. da Silva Jorge, Apostolos Z., Papafragkakis, Athanasios D. Panagopoulos, Charilaos Kourogiorgas, Danielle Vanhoenacker Janvier, Alberto Graziani, Antonio Martellucci. (2016). Large Scale Assessment of Ka/Q Band Atmospheric Channel Across Europe with ALPHASAT TDP5: A New Propagation Campaign. 10th European Conference on Antennas and Propagation - EuCAP. 10 - 15 Abril. Davos (Suiza).
3. Milan Kvicera, Fernando Pérez Fontán, Jonathan Israel, Pavel Pechac. (2016). Modeling Scattering from Tree Canopies for UAV Scenarios. 10th European Conference on Antennas and Propagation - EuCAP. 10 - 15 Abril. Davos (Suiza).
4. Florian Ribaud, Mehdi Aitlghil, Sebastien Rougerie, Joel Lemorton, Olivier Julien, Fernando Pérez Fontán. (2016). Reduction of the Multipath Channel Impulse Response for GNSS Applications. 10th European Conference on Antennas and Propagation - EuCAP. 10 - 15 Abril. Davos (Suiza).
5. Antonio García Pino, Borja González Valdés, Oscar Rubiños, Jose Antonio Encinar. (2016). A Confocal Reflector for a Reflectarray-based Scanning System. 10th European Conference on Antennas and Propagation - EuCAP. 10 - 15 Abril. Davos (Suiza).
6. Yukinori Fuse, Borja González Valdés, José A. Martínez Lorenzo, Carey M. Rappaport. (2016). Advanced SAR Imaging Methods for Forward-Looking Ground Penetrating Radar. 10th European Conference on Antennas and Propagation - EuCAP. 10 - 15 Abril. Davos (Suiza).
7. Hipólito Gómez Sousa, Óscar Rubiños López, José Ángel Martínez Lorenzo. (2016). Hematologic Characterization and 3D Imaging of Red Blood Cells Using a Compressive Nano-Antenna and ML-FMA Modeling. Best Antenna Design and Applications Paper . 10th European Conference on Antennas and Propagation - EuCAP. 10 - 15 Abril. Davos (Suiza).
8. Marcos Arias, Thomas Jost, Borja González Valdés, Wei Wang, Siwei Zhang, Markus Ulmschneider, Christian Gentner. (2016). Statistical Analysis of the Radiation Pattern of an Antenna Mounted on an Aircraft. 10th European Conference on Antennas and Propagation - EuCAP. 10 - 15 Abril. Davos (Suiza).
9. David Ferreira, Iñigo Cuiñas, Rafael F. S. Caldeirinha, Telmo R. Fernandes. (2016). A Dual Band SineSquare FSS Design. 10th European Conference on Antennas and Propagation - EuCAP. 10 - 15 Abril. Davos (Suiza).
10. Edgar Lemos Cid, Manuel García Sánchez and Ana Alejos. (2016). An UTD Ray Tracing Model for Satellite to Helicopter Aeronautical Radio Channel Analysis. 10th European Conference on Antennas and Propagation -

EuCAP. 10 - 15 Abril. Davos (Suiza).
11.Azzeddin Naghar, Ana Alejos, Francisco Falcone, Otman Aghzout. (2016). Synthesis Design of Single Notchedband UWB Antenna Using the CSRR Dynamic resonance. 10th European Conference on Antennas and Propagation - EuCAP. 10 - 15 Abril. Davos (Suiza).
12.Vladimir Robles Bykbaev, Diego Quisi Peralta, Martín López Nores, Alberto Gil Solla, Jorge Garcia Duque. (2016). SPELTA-Miner: An expert system based on data mining and multilabel classification to design therapy plans for communication disorders. 3rd International Conference on Control, Decision and Information Technologies - CoDIT. 6 - 8 Abril. San Julián (Malta).
13.Jack Fernando Bravo Torres, Vladimir Espartaco Robles Bykaev, Martín López Nores, Esteban Fernando Ordoñez Morales, Yolanda Blanco Fernández, Alberto Gil Solla. (2016). OPPIA: A context-aware ubiquitous learning platform to exploit short-lived student networks for collaborative learning. 8th International Conference on Computer Supported Education - CSEDU. 21 - 23 Abril. Roma (Italia).
14.Fernando A. Mikic Fonte, Martín Llamas Nistal, Juan C. Burguillo Rial, Manuel Caeiro Rodríguez. (2016). NLAST: A natural language assistant for students. IEEE Global Engineering Education Conference - EDUCON. 10 - 13 Abril. Abu Dhabi (Emiratos Árabes Unidos).
15.David Santos Domínguez, Soledad Torres-Guijarro, Moisés Pérez-Lopez, Antonio Pena-Giménez. (2016). Towards a noise map model for shallow waters: analysis of propagation losses estimation. 45th International Congress and Exposition on Noise Control Engineering - INTER-NOISE. 21 - 24 Agosto. Hamburgo (Alemania).
16.Manuel A. Sobreira Seoane, David Pérez Cabo and Finn T. Agerkvist. (2016). Do wavelet filters provide more accurate estimates of reverberation times at low frequencies. 45th International Congress and Exposition on Noise Control Engineering - INTER-NOISE. 21 - 24 Agosto. Hamburgo (Alemania).
17.Pere Giménez-Febrer, Alba Pagès-Zamora, Roberto López-Valcarce. (2016). Online EM-based distributed estimation in sensor networks with faulty nodes. European Signal Processing Conference - EUSIPCO. 29 - 2 Agosto. Budapest (Hungría).
18.Ordoñez Morales, E. F., Bravo Torres, J. F., Blanco Fernández, Y., López Nores, M., Víctor Saiáns Vázquez, J. (2016). Exploiting Virtualization and Sporadic Clouds for Collaborative Downloading in VANETs - A new Networking as a Service. IEEE 4th International Conference on Future Internet of Things and Cloud - FiCloud. 22 - 24 Agosto. Viena (Austria).
19.Antonio M. Espinoza, Jeffrey Knockel, Jedidiah R. Crandall, Pedro Comesaña-Alfaro. (2016). V-DIFT: Vector-Based Dynamic Information Flow Tracking with Application to Locating Cryptographic Keys for Reverse Engineering. 11th International Conference on Availability, Reliability and Security - ARES. 31 Agosto - 2 Septiembre. Salzburg (Austria).
20.Nuria González-Prelcic, Kien T. Truong, Cristian Rusu, Robert W. Heath. (2016). Compressive channel estimation in FDD multi-cell massive MIMO systems with arbitrary arrays. IEEE Global Communications Conference - GLOBECOM. 4 - 8 Diciembre. Washington (EEUU).
21.Roberto López-Valcarce, Nuria González-Prelcic, Cristian Rusu, Robert Heath Jr.. (2016). Hybrid Precoders

<p>and Combiners for mmWave MIMO Systems with Per-Antenna Power Constraints. IEEE Global Communications Conference - GLOBECOM. 4 - 8 Diciembre. Washington (EEUU).</p>
<p>22. Pedrouzo-Ulloa, J.R. Troncoso and F. Perez-Gonzalez. (2016). Image Denoising in the Encrypted Domain. IEEE International Workshop on Information Forensics and Security - WIFS. 4 - 7 Diciembre. Abu Dabi (EAU).</p>
<p>23. Jaime Alonso Lorenzo, Enrique Costa Montenegro, Milagros Fernández Gavilanes. (2016). Language-independent Big-Data system for the prediction of user location on Twitter. Workshop on Application of Big Data for Computational Social Science - IEEE BigData. 5 - 8 Diciembre. Washington (EEUU).</p>
<p>24. Carlos Giraldo Rodríguez, Jorge Fontenla González, Carlos Pérez Garrido, Saber Mhiri, Felipe Gil Castiñeira, Francisco J. González Castaño. (2016). TSA, an SDN Architecture including End Terminals. IEEE Consumer Communications and Networking Conference - IEEE CCNC. 8 - 11 Enero. Las Vegas (EEUU).</p>
<p>25. Omar G. Bravo Quezada, Diego A. Pesántez Ñauta, Yolanda Blanco Fernández, Martín López Nores. (2016). Building context-aware customized stories based on uncovering indirect associations from semantic knowledge bases. 5th International Workshop on Semantic Multimedia - SMM. 4 - 6 Febrero. California (EEUU).</p>
<p>26. Anum Ali, Nuria González-Prelcic and Robert W. Heath Jr. (2016). Estimating Millimeter Wave Channels using Out-of-Band Measurements. Information Theory and Applications Workshop - ITA. 2 - 6 Febrero. San Diego, California (EEUU).</p>
<p>27. Nuria Gonzalez-Prelcic, Roi Mendez-Rial, Robert Heath. (2016). Radar aided mmWave beam alignment in V2I communications supporting antenna diversity. Information Theory and Applications Workshop - ITA. 2 - 6 Febrero. San Diego, California (EEUU).</p>
<p>28. Roberto García Vélez, Martín López Nores, Yolanda Blanco Fernández. (2016). Automating the formation of sporadic groups and the selection of topics for online language learning driven by personality traits and interest profiles. 16th IEEE International Conference on Advanced Learning Technologies - ICALT. 25 - 28 Julio. Austin (EEUU).</p>
<p>29. Roberto Agustín García Vélez, Martín López Nores, Yolanda Blanco Fernández, José J. Pazos Arias. (2016). Using Cortical Learning Algorithm to arrange sporadic online conversation groups according to personality traits. 18th International Conference on Human-Computer Interaction - HCI International. 17 - 22 Julio. Toronto (Canadá).</p>
<p>30. Hermida RC, Ayala DE. (2016). Clinical implications of current recommendations of ABPM as requirement for diagnosis of hypertension. Conferencia plenaria por invitación. 21th World Congress on Heart Disease and International Academy of Cardiology Annual Scientific Sessions 2016 - . 30 Julio - 1 Agosto. Boston, Ma (EEUU).</p>
<p>31. Ayala DE, Hermida RC. (2016). Towards personalized medicine for vascular risk reduction: The right drug at the right dose at the right time. Conferencia plenaria por invitación. 21th World Congress on Heart Disease and International Academy of Cardiology Annual Scientific Sessions 2016 - . 30 Julio - 1 Agosto. Boston, Ma (EEUU).</p>

<p>32. Carlos Mosquera, Roberto López-Valcarce. (2016). Bandwidth Allocation in Partial Duplex Relaying. 17th IEEE International Workshop on Signal Processing Advances in Wireless Communications - SPAWC. 3 - 6 Julio. Edimburgo (Reino Unido).</p>
<p>33. Isabel Martins, Pedro Carvalho, Luis Corte-Real, Jose Luis Alba-Castro. (2016). Bio-Inspired Boosting for Moving Objects Segmentation. International Conference on Image Analysis and Recognition - ICIAR. 13 - 15 Julio. Povoa de Varzim (Portugal).</p>
<p>34. Carmen Magariños, Paula Lopez-Otero, Laura Docío-Fernandez, Daniel Erro, Eduardo Rodriguez-Banga, Carmen Garcia-Mateo. (2016). Piecewise Linear Definition of Transformation Functions for Speaker Identification. International Workshop on Sensing, Processing and Learning for Intelligent Machines - SPLINE. 6 - 8 Julio. Aalborg (Dinamarca).</p>
<p>35. Fátima Leal, Joana Matos Dias, Benedita Malheiro, Juan C. Burguillo Rial. (2016). Analysis and Visualisation of Crowd-Sourced Tourism Data. Ninth International Conference on Computer Science and Software Engineering - C3S2E. 20 - 22 Julio. Oporto (Portugal).</p>
<p>36. Bruno Veloso, Benedita Malheiro, Juan C. Burguillo Rial. (2016). CloudAnchor: Agent Based Brokerage of Federated Cloud Resources. 14th International Conference PAAMS - PAAMS. 1 - 3 Junio. Sevilla (España).</p>
<p>37. Mina Namazi, Juan Ramón Troncoso-Pastoriza, and Fernando Pérez-González. (2016). Dynamic Privacy-Preserving Genomic Susceptibility Testing. 4th ACM Workshop on Information Hiding and Multimedia Security - ACM IH & MMSec. 20 - 22 Junio. Vigo (España).</p>
<p>38. Cecilia Pasquini, Pascal Schöttle, Rainer Böhme, Giulia Boato, and Fernando Pérez-González. (2016). Forensics of High Quality and Nearly Identical JPEG Image Recompression. 4th ACM Workshop on Information Hiding and Multimedia Security - ACM IH & MMSec. 20 - 22 Junio. Vigo (España).</p>
<p>39. J. García Rois, B. Lorenzo F. J. González Castano, J. C. Burguillo. (2016). Heterogeneous Millimeter-wave/Micro-wave Architecture for 5G Wireless Access and Backhauling. European Conference on Networks and Communications - EUCNC. 27 - 30 Junio. Atenas (Grecia).</p>
<p>40. Jorge Fontenla González, Carlos Pérez Garrido, Felipe Gil Castiñeira, Francisco Javier González Castaño, Carlos Giraldo Rodríguez. (2016). Lightweight Container Based OpenEPC Deployment and its Evaluation. IEEE NetSoft Conference and Workshops 2016 - IEEE NetSoft. 6 - 10 Junio. Seul (Korea).</p>
<p>41. Valles Castro, F. J. Calviño Dopazo, L. F. Sanchez Alvarez, S. Garcia Fernández, J. E. Antoranz Alvaro, F. Torrecilla Orte, M. Garcia Sanchez, A.V. Alejos, I. Cuiñas, P. Gómez-Pérez. (2016). Experimental Assessment of Propagation Models Over Sea for UHF and X bands. IEEE International Symposium on Antennas and Propagation/USNC-URSI National Radio Science - APS/URSI. 26 - 1 Junio. Fajardo (Puerto Rico).</p>
<p>42. Azzeddin Naghar, Ana Vazquez Alejos, Otman Aghzout, Francisco Falcone. (2016). Low Pass Filter Design with Wide Rejection Based on Array of Modified CSRRs Configuration. IEEE International Symposium on Antennas and Propagation/USNC-URSI National Radio Science - APS/URSI. 26 - 1 Junio. Fajardo (Puerto Rico).</p>
<p>43. Paula Gómez-Pérez, Marcos Crego-García, Iñigo Cuiñas. (2016). Modeling Vegetation Attenuation Patterns: A Comparison between Polynomial Regressions and Artificial Neural Networks. IEEE International</p>

<p>Symposium on Antennas and Propagation/USNC-URSI National Radio Science - APS/URSI. 26 - 1 Junio. Fajardo (Puerto Rico).</p>
<p>44.Azzeddin Naghar, Ana Vazquez Alejos, Otman Aghzout, Francisco Falcone. (2016). UWB Tapered Microstrip Antenna With Wideband Notch Using single Split Ring Resonators Shaped Parasitic Conductor. IEEE International Symposium on Antennas and Propagation/USNC-URSI National Radio Science - APS/URSI. 26 - 1 Junio. Fajardo (Puerto Rico).</p>
<p>45.Roberto López-Valcarce, Daniel Romero. (2016). Design of Data-Injection Adversarial Attacks against Spatial Field Detectors. IEEE Workshop on Statistical Signal Processing - SSP. 26 - 29 Junio. Palma de Mallorca (España).</p>
<p>46.Roberto López-Valcarce, Daniel Romero, Josep Sala, Alba Pagès-Zamora. (2016). Distributed Multivariate Regression with Unknown Noise Covariance in the Presence of Outliers: An MDL Approach. IEEE Workshop on Statistical Signal Processing - SSP. 26 - 29 Junio. Palma de Mallorca (España).</p>
<p>47.Carlos Mosquera. (2016). Wideband Self-Interference Cancellation for Better Spectrum Use. Seventh International Symposium on a World of Wireless, Mobile and Multimedia Networks - WOWMOM. 21 - 24 Junio. Coimbra (Portugal).</p>
<p>48.M. Llamas Nistal, F.A. Mikic Fonte, J.M. Santos Gago. (2016). Update of a course about computer architecture in the first year of a degree in engineering. XII Technologies Applied to Electronics Teaching Conference - TAE. 22 - 24 Junio. Sevilla (España).</p>
<p>49.Magariños C, Erro D, Rodríguez-Banga E.. (2016). Language-independent acoustic cloning of HTS voices: a preliminary study. 41st IEEE International Conference on Acoustics, Speech and Signal Processing - ICASSP. 20 - 25 Marzo. Shanghai (China).</p>
<p>50.Cristian Rusu, Nuria Gonzalez Prelcic, Robert W. Heath. (2016). Array Thinning for Antenna Selection in Millimeter Wave MIMO Systems. 41st IEEE International Conference on Acoustics, Speech and Signal Processing - ICASSP. 20 - 25 Marzo. Shanghai (China).</p>
<p>51.C. Rusu, N. González-Prelcic, and R. W. Heath, Jr.. (2016). The Use of Unit Norm Tight Measurement Matrices for One-bit Compressed Sensing. 41st IEEE International Conference on Acoustics, Speech and Signal Processing - ICASSP. 20 - 25 Marzo. Shanghai (China).</p>
<p>52.Francisco de Arriba Pérez, Juan Manuel Santos Gago, Manuel Caeiro Rodríguez. (2016). Calculation Of Sleep Indicators In Students Using Smartphones And Wearables. 4th World Conference on Information Systems and Technologies - WorldCist. 22 - 24 Marzo. Recife (Brasil).</p>
<p>53.Víctor M. Alonso Rorís, Juan M. Santos Gago, Luis Álvarez Sabucedo, Mateo Ramos Merino, Javier Sanz Valero. (2016). A Telematic Based Approach Towards The Normalization Of Clinical Praxis. 4th World Conference on Information Systems and Technologies - WorldCist. 22 - 24 Marzo. Recife (Brasil).</p>
<p>54.Mateo Ramos Merino, Luis Álvarez Sabucedo, Juan Manuel Santos Gago, Víctor M. Alonso Rorís. (2016). Extending Bpmn Model For Improving Expressiveness And Machine-understandability. 4th World Conference on Information Systems and Technologies - WorldCist. 22 - 24 Marzo. Recife (Brasil).</p>

<p>55.B. Lorenzo, F.J. González Castano. (2016). A Matching Game for Data Trading in Operator-Supervised User-Provided Networks. IEEE International Conference on Communications - IEEE ICC. 23 - 27 Mayo. Kuala Lumpur (Malaysia).</p>
<p>56.Abdelmajid Boussaid, Nabih Alaoui, Otman Aghzout, Yousra Chakkour, Ana Vazquez Alejos, Francisco Falcone. (2016). Highly Efficient Error Correcting Codes for Ubiquitous Healthcare in Wireless Body Area Networks. International Conference on Electrical and information Technologies - . 4 - 7 Mayo. Tánger (Marruecos).</p>
<p>57.Bruno Veloso, Benedita Malheiro, Juan C. Burguillo Rial. (2016). Collaborative Filtering with Semantic Neighbour Discovery. 15th Ibero-American Conference on Artificial Intelligence - Iberamia. 23 - 25 Noviembre. San José (Costa Rica).</p>
<p>58.P. S. Rodríguez Hernández, J. C. Burguillo Rial, E. Costa Montenegro, A. Peleteiro Ramallo. (2016). A Study for Self-Adapting Urban Traffic Control. 15th Ibero-American Conference on Artificial Intelligence - Iberamia. 23 - 25 Noviembre. San José (Costa Rica).</p>
<p>59.Carlos Egas A., Felipe Gil Castiñeira, Enrique Costa Montenegro, Jorge Sa Silva. (2016). Automatic allocation of identifiers in linear wireless sensor networks using link-level processes. 8th IEEE Latin-American Conference on Communications - LATINCOM. 15 - 17 Noviembre. Medellín (Colombia).</p>
<p>60.Lucero Sánchez, S., Díaz Redondo, R. P., Fernández Vilas, A. (2016). Is interpersonal participation relevant to pass?. International Conference on Technological Ecosystems for Enhancing Multiculturality - TEEM. 2 - 4 Noviembre. Salamanca (España).</p>
<p>61.Carmen Magariños, Daniel Erro, Paula López Otero, Eduardo Rodríguez Banga. (2016). Language-Independent Acoustic Cloning of HTS Voices: an Objective Evaluation. IX Jornadas en Tecnologías del Habla y V Iberian SLTech Workshop - IberSPEECH. 23 - 25 Noviembre. Lisboa (Portugal).</p>
<p>62.Paula López Otero, Laura Docío Fernández, Carmen García Mateo. (2016). Better Phoneme Recognisers Lead to Better Phoneme Posteriorgrams for Search on Speech? An Experimental Analysis. IX Jornadas en Tecnologías del Habla y V Iberian SLTech Workshop - IberSPEECH. 23 - 25 Noviembre. Lisboa (Portugal).</p>
<p>63.Nuno R. Leonor, Rafael F. S. Caldeirinha, Manuel García Sánchez, and Telmo R. Fernandes. (2016). A Feasibility Study on the Extension of the Point Scatterer Formulation to Raised Canopy Forests. Loughborough Antennas and Propagation Conference - LAPC. 14 - 15 Noviembre. Loughborough (Reino Unido).</p>
<p>64.Nuria Gonzalez-Prelcic, Cristian Rusu , Robert W. Heath Jr.. (2016). Channel Estimation in Mixed Hybrid-Low Resolution MIMO Architectures for Millimeter Wave Communication. Asilomar Conference on Signals, Systems, and Computers - . 6 - 9 Noviembre. Pacific Grove (EEUU).</p>
<p>65.Manuel Caeiro-Rodríguez, Miguel Á. Conde,Mariluz Guenaga, Ángel Hernández-García, Mikel Larrañaga, Alejandra Martínez-Monés, Pedro J. Muñoz-Merino, Rafael Pastor-Vargas, Asier Perillos-Ruiz, María-José Rodríguez-Conde. (2016). SNOLA: Spanish network of learning analytics. 4th International Conference on Technological Ecosystem for Enhancing Multiculturality - TEEM 2016. 2 - 4 Noviembre. Salamanca (España).</p>

66. José P. González-Coma ; Nuria González-Prelcic ; Luis Castedo ; Robert W. Heath. (2016). Frequency selective multiuser hybrid precoding for mmWave systems with imperfect channel knowledge. Asilomar Conference on Signals, Systems, and Computers - . 6 - 9 Noviembre. Pacific Grove (EEUU).
67. Castro Jul, F., Díaz Redondo, R. P., Fernández Vilas, A. (2016). Have you also seen that? Collaborative alert assessment in ad hoc participatory sensing. International Conference on Ubiquitous Computing and Ambient Intelligence - UCAMl. 29 Noviembre - 2 Diciembre. Palma de Mallorca (España).
68. Mario Manso Vázquez, Manuel Caeiro, Martín Llamas Nistal. (2016). Tracking and Visualizing Time Management for Self-Regulated Learners. Frontiers in Education - FIE. 12 - 15 Octubre. Eire, PA (EEUU).
69. Manuel Caeiro, Martín Llamas Nistal, Fernando Mikic Fonte. (2016). Introducing BeA into Self-Regulated Learning to provide Formative Assessment Support. Frontiers in Education - FIE. 12 - 15 Octubre. Eire, PA (EEUU).
70. Bravo Quezada, O. G., López Nores, M., García Nogueiras, I., Perdíz Gradín, D., Blanco Fernández, Y., Pazos Arias, J. J., Gil Solla, A., Ramos Cabrer, M. (2016). A semantics-based exploratory game to enrich school classes with relevant historical facts. 11th International Workshop on Semantic and Social Media Adaptation and Personalization - SMAP. 20 - 21 Octubre. Tesalónica (Grecia).
71. M ^a del Rocío Moure Fernández, Monica Fernández Barciela, Michael Casbon, Paul J. Tasker. (2016). Broadband Non-Linear FET Behavioral Model Defined in the Admittance Domain. European Microwave Integrated Circuits Conference - EuMIC, EuMW. 3 - 7 Octubre. Londres (Reino Unido).
72. Robles Bykbaev, V. E., López Nores, M., Guamán-Murrillo, W., Pazos Arias, J. J., García Duque, J., Quisi Peralta, D. (2016). An ontology-based expert system to generate therapy plans for children with disabilities and communication disorders. IEEE Ecuador Technical Chapters Meeting - ETCM. 12 - 14 Octubre. Guayaquil (Ecuador).
73. Paula López Otero, Laura Docío Fernández, Carmen García Mateo. (2016). GTM-UVigo System for Multimodal Person Discovery in Broadcast TV Task at MediaEval 2016. MediaEval Benchmarking Initiative for Multimedia Evaluation - MediaEval. 20 - 21 Octubre. Amsterdam (Países Bajos).
74. Bravo Torres, J. F., Santiago Redrován Parra, H., Fernando Soto Sarango, Á., Arcesio Andrade Padilla, J., Ordoñez Morales, E. F., López Nores, M. (2016). SAFER: A Context-Aware Ubiquitous Assistance Platform for Elderly Care. VII Congreso de Ingeniería Biomédica - CLAIB. 26 - 28 Octubre. Bucaramanga (Colombia).
75. Virginia Rodés Paragarino, Flavio Augusto Pelerino Francolino, Adriana Gewerc Barujel, Martín Llamas Nistal. (2016). A characterization of users of digital educational resources repositories: The case of the Latin American Community of Learning Objects – LACLO. XI Conferencia Latinoamericana de Objetos y Tecnologías de Aprendizaje - LACLO. 3 - 7 Octubre. (Costa Rica).
76. Robles Bykbaev, V. E., López Nores, M., Pazos Arias, J. J., García Duque, J., Ochoa-Guaraca, M., Carpio-Moreta, M. (2016). A robotic assistant to support the development of communication skills of children with disabilities. 11 ^o Congreso Colombiano de Computación - SCo2/IEEE - 11CCC. 28 - 30 Septiembre. Popayán (Colombia).
77. Bampatzia, S., Gustavo Bravo Quezada, O., Antoniou, A., López Nores, M., Wallace, M., Lepouras, G.

<p>Vassilakis, C. (2016). The use of semantics in the CrossCult H2020 project. 2nd International KEYSTONE Conference - IKC. 8 - 9 Septiembre. Cluj-Napoca (Rumanía).</p>
<p>78.P. Henarejos, Pérez-Neira, A., Mazzali, N., and Mosquera, C. (2016). Advanced Signal Processing Techniques for Fixed and Mobile Satellite Communications. 8th Advanced Satellite Multimedia Systems Conference and 14th Signal Processing for Space Communications Workshop - ASMS/SPSC. 5 - 7 Septiembre. Palma de Mallorca (España).</p>
<p>79.Anxo Tato and Carlos Mosquera. (2016). Link Adaptation in Mobile Satellite Links: Field Trials Results. 8th Advanced Satellite Multimedia Systems Conference and 14th Signal Processing for Space Communications Workshop - ASMS/SPSC. 5 - 7 Septiembre. Palma de Mallorca (España).</p>
<p>80.Vahid Joroughi and Carlos Mosquera. (2016). The Impact of Feeder Link Interference in Multiple Gateway Multibeam Satellite Systems. 8th Advanced Satellite Multimedia Systems Conference and 14th Signal Processing for Space Communications Workshop - ASMS/SPSC. 5 - 7 Septiembre. Palma de Mallorca (España).</p>
<p>81.Fernando Pérez-González, Miguel Masciopinto, Iria González-Iglesias, P. Comesaña. (2016). Fast Sequential Forensic Detection of Camera Fingerprint. IEEE International Conference on Image Processing - ICIP. 25 - 28 Septiembre. Phoenix, AZ (EEUU).</p>
<p>82.D. M. Solís, J. M. Taboada, F. Obelleiro, L. Landesa, J. L. Rodríguez. (2016). Impact of the evaluation precision of the reaction integrals of the method of moments on the solution of plasmonic problems near the quasi-static regime. Ponencia invitada. International Conference on Electromagnetics in Advanced Applications - ICEAA. 19 - 23 Septiembre. Cairns (Australia).</p>
<p>83.Tamara Álvarez López, Milagros Fernández Gavilanes, Silvia García Méndez, Jonathan Juncal Martínez, Francisco Javier González Castaño. (2016). GTI at TASS 2016: Supervised Approach for Aspect Based Sentiment Analysis in Twitter. Workshop on Sentiment Analysis at SEPLN - TASS. 13 - Septiembre. Salamanca (España).</p>
<p>84.Manuel Caeiro Rodríguez, Martín Llamas Nistal, A. Blanco Pesqueira, F.J. Álvarez Lires. (2016). A survey about the use of lesson plans as an approach to OER: An proposal based on action research. XVIII Simposio Internacional de Informática Educativa - SIIE. 14 - 16 Septiembre. Salamanca (España).</p>
<p>85.Carmelo Branimir España Villegas, Manuel Caeiro Rodríguez. (2016). Research proposal for technology adoption in the oer ecosystem. XVIII Simposio Internacional de Informática Educativa - SIIE. 14 - 16 Septiembre. Salamanca (España).</p>
<p>86.Carlos Vaz de Carvalho, Paula Escudeiro, Manuel Caeiro Rodríguez, Martín Llamas Nistal. (2016). Sustainability of Open Educational Resources: the eCity case. XVIII Simposio Internacional de Informática Educativa - SIIE. 14 - 16 Septiembre. Salamanca (España).</p>
<p>87.Azzeddin Naghar, Otman Aghzout,, Ana Vazquez Alejos, David Alvarez Outerelo, Francisco Falcone Lanás. (2016). Improvement of Notch Performances for UWB Monopole Antennas Using CSRR and SSRR. 5th International Conference on Multimedia Computing and Systems - ICMCS. 29 Septiembre - 1 Octubre. Marrakech (Marruecos).</p>

7. Patents

<i>Patent applicants</i>	<i>Description</i>	<i>Reference</i>
Borja González Valdés, Yuri Álvarez López, Ana Arboleya Arboleya, Yolanda Rodríguez Vaqueiro, María García Fernández, Fernando Las-Heras Andrés, Antonio García Pino	<i>Sistema aerotransportado y métodos para la detección, localización y obtención de imágenes de objetos enterrados y la caracterización de la composición del subsuelo</i>	P201600073