

**PUBLICACIONES DERIVADAS DE LAS TESIS DEFENDIDAS EN EL PROGRAMA DE
DOCTORADO EN “SISTEMAS ELECTRÓNICOS AVANZADOS. SISTEMAS
INTELIGENTES” EN EL AÑO 2017**

Doctorando	Pablo Poudereux Clemente
Fecha lectura	15/02/2017
<ul style="list-style-type: none"> - P. Poudereux, A. Hernández, F. Cruz-Roldán, R. Mateos, “Real-Time Architectures for Medium Access Techniques in Broadband PLC”. IEEE Access, 6, pp. 9534-9542 (2018). - P. Poudereux, A. Hernández, R. Mateos, F. A. Pinto-Benel, F. Cruz-Roldán, “Design of a Filter Bank Multi-Carrier System for Broadband Power Line Communications”. Signal Processing, 128, pp. 57-67 (2016) - E. García, P. Poudereux, A. Hernández, J. J. García, J. Ureña, “DS-UWB indoor positioning system implementation based on FPGAs”. Sensors and Actuators A: Physical, 210, pp. 172-181 (2013). 	

Doctorando	José Manuel Alcalá Orzaez
Fecha lectura	16/02/2017
<ul style="list-style-type: none"> - J. M. Alcalá, J. Ureña, A. Hernández, D. Gualda, “Assessing Human Activity in Elderly People Using Non-Intrusive Load Monitoring”. Sensors, 17 (2), 1-17 (2017). - J. Alcalá, J. Ureña, A. Hernández, D. Gualda, “Event-based Energy Disaggregation Algorithm for Activity Monitoring from a Single-Point Sensor”, IEEE Transactions on Instrumentation & Measurement, 66(10), 2615-2626 (2017) - J. M. Alcalá, J. Ureña, A. Hernández, D. Gualda, “Sustainable Homecare Monitoring System by Sensing Electricity Data”. IEEE Sensors Journal, 17(23), 7741-7749 (2017) 	

Doctorando	José Francisco Velasco Cerpa
Fecha lectura	15/03/2017
<ul style="list-style-type: none"> - J.F. Velasco, D. Pizarro, J. Macias-Guarasa, y A. Asaei, “TDOA Matrices: Algebraic Properties and Their Application to Robust Denoising With Missing Data”, IEEE Transactions on Signal Processing, vol. 64, nº 20, p. 5242 - 5254, (2016) - J. F. Velasco, C. J. Martín-Arguedas, J. Macias-Guarasa, D. Pizarro, y M. Mazo, “Proposal and validation of an analytical generative model of SRP-PHAT power maps in reverberant scenarios”, Signal Processing, vol. 119, p. 209-228, (2015) 	

- J. F. Velasco, D. Pizarro, y J. Macias-Guarasa, *"Source Localization with Acoustic Sensor Arrays Using Generative Model Based Fitting with Sparse Constraints"*, Sensors, vol. 12, nº 10, p. 13781-13812, (2012)

Doctorando	David Rodríguez Navarro
Fecha lectura	30/03/2017
<ul style="list-style-type: none"> - D. Rodríguez, J. L. Lázaro, I. Bravo, A. Gardel, G. Tsirigotis, <i>"Analysis and calibration of sources of electronic error in PSD sensor response"</i>. Sensors (Switzerland), 16 (5), art. no. 619 (2016). - D. Rodríguez, J. L. Lázaro, I. Bravo, A. Gardel, F. Domingo, G. Tsirigotis, <i>"Mathematical model and calibration procedure of a psd sensor used in local positioning systems"</i>. Sensors, 16 (9), 1484- (2016) - D. Rodríguez, J. L. Lázaro Á. De-la Llana, I. Bravo A. Gardel, G. Tsirigotis. J. Iglesias. <i>"Indoor positioning system based on a psd detecto"</i>. Sensors, 17(9), 1-26 (2017). 	

Doctorando	Roberto Arroyo Contera
<ul style="list-style-type: none"> - E. Romera, J.M. Álvarez, Luis M. Bergasa, R. Arroyo, <i>"ERFNet: Efficient Residual Factorized ConvNet for Real-time Semantic Segmentation"</i>, IEEE Transactions on Intelligent Transportation Systems (ISSN: 1524-9050)., Vol. 19, Nº 1, 263-272. 2018 - R. Arroyo, P.F. Alcantarilla, L.M. Bergasa, E. Romera, <i>"Are You ABLE to Perform a Life-Long Visual Topological Localization?"</i>, Autonomous Robots, Vol. 42, Nº 3, 665-685, 2018 - E. López, S. García, R. Barea, L.M. Bergasa, E.J. Molinos, R. Arroyo, E. Romera, S. Pardo, <i>"Multi-Sensorial SLAM System for Low-Cost Micro Aerial Vehicles in GPS-denied Environments"</i>, Sensors, Vol. 17, Nº 802, 1-27, 2017 - R. Arroyo, J. J. Yebes, L.M. Bergasa, I. García and J. Almazán, <i>"Expert Video-Surveillance System for Real-Time Detection of Suspicious Behaviors in Shopping Malls Expert Systems With Applications"</i>, Expert Systems with Applications (ISSN: 0957-4174), Vol 42, nº 21, 7991-8005, 2015 - I. G. Daza, L. M. Bergasa, S. Bronte, J. Javier Yebes, J. Almazán, R. Arroyo, <i>"Fusion of optimized indicators from ADAS for driver drowsiness detection"</i>, Sensors, Vol. 14, Nº 1, 1106-1131, 2014 - A. Cela, J. J. Yebes, Roberto Arroyo, L. M. Bergasa, R. Barea, E. López. <i>"Complete Low-cost Implementation of a Teleoperated Humanoid Robot"</i>. Sensors, Vol. 13 Nº: 2, 1385-1401, 2013 	

Doctorando	Miguel Martínez Rey
Fecha lectura	12/06/2017
<ul style="list-style-type: none"> - M. Martínez-Rey, F. Espinosa, A. Gardel, C. Santos, "On-board event-based state estimation for trajectory approaching and tracking of a vehicle". <i>Sensors (Switzerland)</i>, 15 (6), pp. 14569-14590 (2015) - M. Martínez Rey, F. Espinosa Zapata, A. Gardel Vicente, "Analysis of the optimal sampling rate for state estimation in sensor networks with delays". <i>ISA Transactions</i>, 68, pp. 293-301. 	

Doctorando	Arantzasu Núñez Cascajero
Fecha lectura	22/06/2017
<ul style="list-style-type: none"> - L. Monteagudo-Lerma, S. Valdueza-Felip, A. Núñez-Cascajero, M. González-Herráez, E. Monroy, F.B. Naranjo, "<i>Two-step method for the deposition of AlN by radio-frequency sputtering</i>". <i>Thin Solid Films</i> 545, 149-153 (2013). - S. Valdueza-Felip, E. Bellet-Amalric, A. Núñez-Cascajero, Y. Wang, M.-P. Chauvat, P. Ruterana, S. Pouget, K. Lorenz, E. Alves, and E. Monroy, "<i>High In-content InGaN layers synthesized by plasma-assisted molecular-beam epitaxy: Growth conditions, strain relaxation, and In incorporation kinetics</i>". <i>Journal of Applied Physics</i> 116, 233504 (2014). - L. Redaelli, A. Mukhtarova, A. Ajay, A. Núñez-Cascajero, S. Valdueza-Felip, C. Durand, J. Eymery and E. Monroy, "<i>Effect of the barrier thickness on the performance of multiple-quantum-well InGaN photovoltaic cells</i>" <i>Japanese Journal of Applied Physics</i>, 54, 072302 (2015). - A. Núñez-Cascajero, L. Monteagudo-Lerma, S. Valdueza-Felip, C. Navio, E. Monroy, M. González-Herráez, F. B. Naranjo, "<i>Study of high In-content AlInN deposition on p-Si (111) by RF sputtering</i>". <i>Japanese Journal of Applied Physics</i> 55, 05FB07 (2016). - A. Núñez Cascajero, Ó. Estéban, J. A. Méndez, M. González Herráez, F. B. Naranjo, "<i>Infrared SPR sensing with III-nitride dielectric layers</i>", <i>Sensors and Actuators, B</i> 223, 768-773 (2016). - L. Monteagudo-Lerma, S. Valdueza-Felip, A. Núñez-Cascajero, A. Ruiz, M. González-Herráez, E. Monroy and F.B. Naranjo, "<i>Morphology and arrangement of InN nanocolumns deposited by radio-frequency sputtering: effect of the buffer layer</i>", <i>Journal of Crystal Growth</i> 434, 13-18 (2016). - A. Núñez-Cascajero; M. Jiménez-Rodríguez; E. Monroy; M. González-Herráez; F. B. Naranjo, "<i>Development of AlInN photoconductors deposited by sputtering</i>", <i>Physica status solidi (A)</i>, 214: 1600780 (2017). - A. Núñez-Cascajero, S. Valdueza-Felip, L. Monteagudo-Lerma, E. Monroy, E Taylor-Shaw, R W Martin, M. González-Herráez, F. B. Naranjo, "<i>In-rich AlxIn1-xN grown by RF sputtering on</i> 	

sapphire: from closely-packed columnar to high-surface quality compact layers". Journal of Applied Physics D: Applied Physics 50, 065101 (2017).

Doctorando	Francisco José Zampella Méndez
Fecha lectura	23/06/2017
<ul style="list-style-type: none"> - A.R. Jiménez, F. Zampella and F. Seco, <i>"Improving Inertial Pedestrian Dead-Reckoning by Detecting Unmodified Switched-on Lamps in Buildings"</i>, in Sensors, Vol 14, No 1, pp 731-769, 2014 - F. Zampella, A.R. Jiménez, and F. Seco, <i>"Indoor Positioning using efficient Map Matching, RSS measurements and an improved motion model"</i>, in IEEE Transactions on Vehicular Technology, Vol 64, no 4, pp-1304-1317, Abril 2015. - F. Zampella, A. Bahillo, J. Prieto, A.R. Jiménez, and F. Seco, <i>"Pedestrian Navigation fusing Inertial and RSS/TOF measurements with Adaptive Movement/Movement Models: Experimental Evaluation and Theoretical Limits"</i>, in Sensors and Actuators A: Physical, Vol. 203, pp-249-260, Diciembre 2013. 	

Doctorando	José Luis Martín Sánchez
Fecha lectura	3/07/2017
<ul style="list-style-type: none"> - J. L. Martín, L. Boquete, C. Díaz, M. García de León, M. Mazo (2001). <i>"Discrimination between Two Mental States (Rest and Motor Image) Using Wavelet Transform and Neural Networks"</i>. Lecture Notes on Computer Science. Computational Intelligence. Theory and Applications, 2206, pp. 28-32. - J.L. Martín, A. Ferreira, M. Mazo, L. Boquete, S. Palazuelos and J.C. García (2009). <i>"Efficient Algorithms for a Brain Computer Interface: Performance Studies"</i>. Assistive Technology from Adapted Equipments to Inclusive Environments. Assistive Technology Research Series 	

Doctorando	Alejandro Domínguez López
Fecha lectura	4/07/2017
<ul style="list-style-type: none"> - A. Garcia-Ruiz, A. Dominguez-Lopez, J. Pastor-Graells, H.F. Martins, S. Martin-Lopez, M. Gonzalez-Herraez, <i>"Long-range distributed optical fiber hot-wire anemometer based on chirped-pulse ΦOTDR"</i>. Optics Express, 26 (1), pp. 463-476 (2018) - J. Ribeiro, Viveiros, D., Ferreira, J., Lopez-Gil, A., Dominguez-Lopez, A., Martins, H.F., Perez-Herrera, R., Lopez-Aldaba, A., Duarte, L., Pinto, A., Martin-Lopez, S., Baierl, H., Jamier, R., 	

- Rougier, S., Auguste, J.-L., Teodoro, A.C., Gonçalves, J.A., Esteban, O., Santos, J.L., Roy, P., Lopez-Amo, M., Gonzalez-Herraez, M., Baptista, J.M., Flores, D., *"ECOAL project-Delivering Solutions for Integrated monitoring of coal-related fires supported on optical fiber sensing technology"*. Applied Sciences (Switzerland), 7 (9), art. no. 956 (2017)
- A. Dominguez-Lopez, M.A. Soto, S. Martin-Lopez, L. Thevenaz, M. Gonzalez-Herraez, *"Resolving 1 million sensing points in an optimized differential time-domain Brillouin sensor"*. Optics Letters, 42 (10), pp. 1903-1906 (2017)
 - L. Duarte, A.C. Teodoro, J.A. Gon alves, J. Ribeiro, D. Flores, A. Lopez-Gil, A. Dominguez-Lopez, X. Angulo-Vinuesa, S. Martin-Lopez, M. Gonzalez-Herraez, *"Distributed temperature measurement in a self-burning coal waste pile through a GIS open source desktop application"*. ISPRS International Journal of Geo-Information, 6 (3), art. no. 87 (2017)
 - A. Lopez-Gil, M.A. Soto, X. Angulo-Vinuesa, A. Dominguez-Lopez, S. Martin-Lopez, L. Thévenaz, M. Gonzalez-Herraez, *"Evaluation of the accuracy of BOTDA systems based on the phase spectral response"*. Optics Express, 24 (15), pp. 17200-17214. (2016)
 - A. Lopez-Gil, M.A. Soto, X. Angulo-Vinuesa, A. Dominguez-Lopez, S. Martin-Lopez, M. Gonzalez-Herraez, *"Simple Baseband Method for the Distributed Analysis of Brillouin Phase-Shift Spectra"*. IEEE Photonics Technology Letters, 28 (13), art. no. 7433390, pp. 1379-1382 (2016)
 - A. Dominguez-Lopez, Z. Yang, M.A. Soto, X. Angulo-Vinuesa, S. Martin-Lopez, L. Thevenaz, M. Gonzalez-Herraez, *"Novel scanning method for distortion-free BOTDA measurements"*. Optics Express, 24 (10), pp. 10188-10204 (2016)
 - X. Angulo-Vinuesa, A. Dominguez-Lopez, A. Lopez-Gil, J.D. Ania-Castañón, S. Martin-Lopez, M. Gonzalez-Herraez, *"Limits of BOTDA Range Extension Techniques"*. IEEE Sensors Journal, 16 (10), art. no. 7088555, pp. 3387-3395. (2016)
 - A. López-Gil, A. Dominguez-Lopez, S. Martin-Lopez, M. Gonzalez-Herraez, *"Simple method for the elimination of polarization noise in BOTDA using balanced detection and orthogonal probe sidebands"*. Journal of Lightwave Technology, 33 (12), art. no. 6990495, pp. 2605-2610 (2015)
 - A. Dominguez-Lopez, X. Angulo-Vinuesa, A. López-Gil, S. Martin-Lopez, M. Gonzalez-Herraez, *"Non-local effects in dual-probe-sideband Brillouin optical time domain analysis"*. Optics Express, 23 (8), pp. 10341-10352 (2015)
 - A. Lopez-Gil, X. Angulo-Vinuesa, A. Dominguez-Lopez, S. Martin-Lopez, M. Gonzalez-Herraez, *"Exploiting nonreciprocity in BOTDA systems"*. Optics Letters, 40 (10), pp. 2193-2196 (2015)
 - A. Dominguez-Lopez, A. López-Gil, S. Martin-Lopez, M. Gonzalez-Herraez, *"Strong cancellation of RIN transfer in a raman-assisted BOTDA using balanced detection"*. IEEE Photonics Technology Letters, 26 (18), art. no. 6851137, pp. 1817-1820. (2014)

- A. Dominguez-Lopez, A. López-Gil, S. Martin-Lopez, M. Gonzalez-Herraez, “*Signal-to-noise ratio improvement in BOTDA using balanced detection*”. IEEE Photonics Technology Letters, 26 (4), art. no. 6678572, pp. 338-341. (2014)

Doctorando	Eduardo José Molinos Vicente
<ul style="list-style-type: none"> - E. López, S. García, R. Barea, L.M. Bergasa, E. Molinos, R. Arroyo, E. Romera, S. Pardo, “<i>Multi-Sensorial SLAM System for Low-Cost Micro Aerial Vehicles in GPS-denied Environments</i>”. Sensors, Vol. 17(4), pages 1-27. 2017 - E. Molinos, A. Llamazares, N. Hernández, R. Arroyo, A. Cela, J.J. Yebes, M. Ocaña, L.M. Bergasa, “<i>Perception and Navigation in Unknown Environments: The DARPA Robotics Challenge</i>”. Advances in Intelligent Systems and Computing, Vol. 253, Pages 321-329. 2014 - E. Garcia, M. Ocaña, L.M. Bergasa, M. Ferre, M. Abderrahim, J. Arevalo, D. San-Merodio, E. Molinos, N. Hernández, A. Llamazares, F. Suarez, S. Rodriguez, “<i>Competing in the DARPA Virtual Robotics Challenge as the SARBOT Team</i>”. Advances in Intelligent Systems and Computing, Vol. 253, Pages 381-396. 2014 - F. Herranz, A. Llamazares, E. Molinos, M. Ocaña, M. Sotelo, “<i>WiFi SLAM algorithms: an experimental comparison</i>”. Robotica (2014) - A. Llamazares, V. Ivan, E. Molinos, M. Ocaña, S. Vijayakumar, “<i>Dynamic Obstacle Avoidance Using Bayesian Occupancy Filter and Approximate Inference</i>”. Sensors, Vol. 13(3), pages 2929-2944. 2013 - E. Molinos, J. Pozuelo, A. Llamazares, M. Ocaña, J. López, “<i>Comparison of Local Obstacle Avoidance Algorithms</i>”. Lecture Notes in Computer Science, Vol. 8112. 2013 	

Doctorando	Ana Isabel de Andrés Rubio
Fecha lectura	22/06/2017
<ul style="list-style-type: none"> - A.I. De Andrés, Ó. Esteban, M. Embid, “<i>Improved extrinsic polymer optical fiber sensors for gamma-ray monitoring in radioprotection applications</i>” (2017) Journal of Optics and Laser Technology 93, pp. 201-207 - A.I. De Andrés, S. O’Keeffe, L. Chen, Ó. Esteban, “<i>Highly sensitive extrinsic X-ray polymer optical fiber sensors based on fiber tip modification</i>” (2017) IEEE Sensors Journal 17, pp. 5112-5117 - Ó. Esteban, A.I. De Andrés, “<i>Dynamic gamma-ray monitoring at radioprotection levels with extrinsic polymer optical fiber sensors</i>” (2018) Sensors and Actuators A. Physical 271, pp. 83-87 	

Doctorando	Fernando Trincado Alonso
Fecha lectura	11/07/2017
<ul style="list-style-type: none"> - F. Trincado-Alonso; E. López-Larraz; F. Resquín; A. Ardanza; S. Pérez-Nombela; J. Luis Pons; L. Montesano; Á. Gil-Agudo. <i>"A Pilot Study of Brain-Triggered Electrical Stimulation with Visual Feedback in Patients with Incomplete Spinal Cord Injury"</i>. Journal of Medical and Biological Engineering. (2017) - E. López-Larraz; F. Trincado-Alonso; V. Rajasekaran; S. Pérez-Nombela; A. J. del-Ama; J. Aranda; J. Mínguez; A. Gil-Agudo; L. Montesano. <i>"Control of an Ambulatory Exoskeleton with a Brain–Machine Interface for Spinal Cord Injury Gait Rehabilitation"</i>. Frontiers in Neuroscience. 10 - 359, pp. 1 - 15. (2016) - F. Trincado-Alonso; I. Dimbwadyo Terror; A. De los Reyes Guzmán; P. López Monteagudo; A. Bernal Sahún; Á. Gil Agudo. <i>"Kinematic metrics based on the virtual reality system Toyra as an assessment of the upper limb rehabilitation in people with spinal cord injury"</i>. BioMed Research International, 904985, pp. 1 – 11 (2014) 	

Doctorando	Sebastián Bronte Palacios
Fecha lectura	11/07/2017
<ul style="list-style-type: none"> - S. Bronte, L.M. Bergasa, D. Pizarro, R. Barea. <i>"Model-Based Real-time Non-Rigid Tracking"</i>. Sensors, vol. 17 Nº 2342, 1-28, 2017 - I. G. Daza, L.M. Bergasa, S. Bronte, J. Javier Yebes, J. Almazán, R. Arroyo, <i>"Fusion of optimized indicators from ADAS for driver drowsiness detection"</i>, Sensors (ISSN 1424-8220), Vol: 14, Nº: 1, pp: 1106-1131, 2014 	

Doctorando	Miguel Moranchel
Fecha lectura	12/07/2017
<ul style="list-style-type: none"> - M. Moranchel Pérez, F. Huerta Sánchez, I. Sanz Alonso, E.J. Bueno Peña, F.J. Rodríguez Sánchez, <i>"A Comparison of Modulation Techniques for Modular Multilevel Converters"</i>. Energies 2016, 9, 1091. - M. Moranchel Pérez, I. Sanz Alonso, E.J. Bueno Peña, F.J. Rodríguez Sánchez, <i>"New approaches to circulating current controllers for Modular Multilevel Converters"</i>. Energies 2017, 10, 86. - M. Moranchel, E.J. Bueno, F.J. Rodríguez, I. Sanz, <i>"Selective Harmonic Elimination modulation for Medium Voltage Modular Multilevel Converter"</i>. In Power Electronics for Distributed Generation Systems (PEDG), 2016 IEEE 7th International Symposium on (pp. 1-6). IEEE. Sanz (2016, June) 	

- M. Moranchel, E.J. Bueno, F.J. Rodriguez, I. Sanz, *“Circulating current elimination in Modular Multilevel Converter with resonant controllers”*. In Power Electronics for Distributed Generation Systems (PEDG), 2016 IEEE 7th International Symposium on (pp. 1-6). IEEE. (2016, June).
- M. Moranchel, I. Sanz, E.J. Bueno, F. Huerta, F.J. Rodriguez, *“Circulating current elimination in Modular Multilevel Converter with repetitive controllers”*. In Industrial Electronics Society, IECON 2016-42nd Annual Conference of the IEEE (pp. 6476-6481). IEEE. (2016, October).

Doctorando	Carlos Girón Casares
Fecha lectura	13/07/2017
<ul style="list-style-type: none"> - F. J. Rodriguez, C. Giron, E. J. Bueno, Á. Hernandez, S. Cobreces and P. Martin, <i>“Remote Laboratory for Experimentation With Multilevel Power Converters”</i>. IEEE Transactions on Industrial Electronics, vol. 56, no. 7, pp. 2450-2463, July 2009. - E. J. Bueno, A. Hernandez, F. J. Rodriguez, C. Giron, R. Mateos and S. Cobreces, <i>“A DSP- and FPGA-Based Industrial Control With High-Speed Communication Interfaces for Grid Converters Applied to Distributed Power Generation Systems”</i>. IEEE Transactions on Industrial Electronics, vol. 56, no. 3, pp. 654-669, March 2009. - F. Huerta, D. Pizarro, S. Cóbreces, F.J. Rodríguez, C. Girón, A. Rodríguez, <i>“LQG servo controller for the current control of grid-connected voltage-source converters”</i>. Industrial Electronics, IEEE Transactions on, vol. 59, no. 11, pp. 4272-4284 2012. - M. Rizo, M. Liserre, E.J. Bueno, F. J. Rodriguez, C. Giron, <i>“Voltage control architectures for the universal operation of DPGS”</i>. Industrial Informatics, IEEE Transactions on, vol. 11, no. 2, pp. 313-321 2015. - C. Girón, F.J. Rodríguez, L. Giménez de Urtasum, S.I Borroy, <i>“Assessing the contribution of automation to the electric distribution network reliability”</i>. International Journal of Electrical Power & Energy Systems, Volume 97, 2018, Pages 120-126 	

Doctorando	Ángel Llamazares Llamazares
Fecha lectura	13/07/2017
<ul style="list-style-type: none"> - E. Molinos, A. Llamazares, N. Hernández, R. Arroyo, A. Cela, J.J. Yebes, M. Ocaña, L.M. Bergasa, <i>“Perception and Navigation in Unknown Environments: The DARPA Robotics Challenge”</i>. Advances in Intelligent Systems and Computing, Vol. 253, Pages 321-329. 2014 - E. Garcia, M. Ocaña, L.M. Bergasa, M. Ferre, M. Abderrahim, J. Arevalo, D. San-Merodio, E. Molinos, N. Hernández, A. Llamazares, F. Suarez, S. Rodriguez, <i>“Competing in the DARPA</i> 	

Virtual Robotics Challenge as the SARBOT Team". Advances in Intelligent Systems and Computing, Vol. 253, Pages 381-396. 2014

- A. Llamazares, V. Ivan, E. Molinos, M. Ocaña, S. vijayakumar, "*Dynamic Obstacle Avoidance Using Bayesian Occupancy Filter and Approximate Inference*". Sensors, Vol. 13(3), pages 2929-2944. 2013
- E. Molinos, J. Pozuelo, A. Llamazares, M. Ocaña, J. López, "*Comparison of Local Obstacle Avoidance Algorithms*". Lecture Notes in Computer Science, Vo. 8112. 2013
- A. Llamazares, E. Molinos, M. Ocaña, L. M. Bergasa, N. Hernández and F. Herranz, "*3D Map Building using a 2D Laser Scanner*". Lecture Notes in Computer Science, vol 6928, p. 413-420. 2011

Doctorando	Osmell Machado Llarena
Fecha lectura	14/07/2017
<ul style="list-style-type: none"> - P. Martín Sanchez, O. Machado, E. J. Bueno Peña, F. J. Rodríguez and F. J. Meca, "<i>FPGA-Based Implementation of a Predictive Current Controller for Power Converters</i>". IEEE Transactions on Industrial Informatics, vol. 9, no. 3, pp. 1312-1321, Aug. 2013. - P. Martín, E. Bueno, Fco. J. Rodríguez, O. Machado, B. Vuksanovic, "<i>An FPGA-based approach to the automatic generation of VHDL code for industrial control systems applications: A case study of MSOGIs implementation</i>". Mathematics and Computers in Simulation, Volume 91, 2013, Pages 178-192 - O. Machado, P. Martín, F. J. Rodríguez and E. J. Bueno, "<i>A Neural Network-Based Dynamic Cost Function for the Implementation of a Predictive Current Controller</i>". IEEE Transactions on Industrial Informatics, vol. 13, no. 6, pp. 2946-2955, Dec. 2017. 	

Doctorando	Jorge Pérez Morales
Fecha lectura	17/07/2017
<ul style="list-style-type: none"> - J. Pérez, S. Cobreces, R. Griñó, FJR Sánchez, "<i>H infinity Current Controller for Input Admittance Shaping of VSC-Based Grid Applications</i>". IEEE Transactions on Power Electronics 32 (4), 3180-3191, 2017. - J. Pérez, S Cobreces, R. Griñó, F. Huerta, FJR. Sánchez, "<i>Active damping: an H_infinity model reference approach</i>". IEEE Transactions on Power Electronics, 33(8) .7260 – 7272, 2018. - F. Huerta Sánchez, J. Pérez, S. Cobreces Álvarez, M. Rizo, "<i>Frequency-Adaptive Multi-Resonant LQG State-Feedback Current Controller for LCL-Filtered VSCs under Distorted Grid Voltages</i>". IEEE Transactions on Industrial Electronics, 2018. Aceptado, publicado en acceso temprano. 	

- S. Cobreces, X. Wang, J. Perez, R. Grino, F. Blaabjerg, “Robust admittance shaping approach to grid current harmonic attenuation and resonance damping”. IEEE Transactions on Industry Applications, 2018. Aceptado, publicado en acceso temprano.

Doctorando	Pedro A. Revenga de Toro
Fecha lectura	12/07/2017
<ul style="list-style-type: none"> - A. Garcel, I. Bravo, J.L. Lázaro, P. Revenga, “Remote automation laboratory using a cluster of virtual machines”. IEEE Transactions on Industrial Electronics, 57(10), 3276-3283 (2010). - A. Gardel, I. Bravo, P.A. Revenga, J.L. Lázaro, J. García, “Implementation of industrial automation laboratories for e-learning”. International Journal of Electrical Engineering Education, 49 (4), pp. 402-418 (2012) 	

Doctorando	Alberto Noboru Miyadaira
Fecha lectura	16/11/2017
<ul style="list-style-type: none"> - A.N. Miyadaira, M.K. Madrid, J.C. García, D.E. Gualda, A.L. Delai, “Squat vertical jump of a 3dof robot leg over an inclined plane: Analysis with joint torque profile approximation”. IEEE Latin America Transactions 16(1) Jan. 2018. - A.N. Miyadaira, M.K. Madrid, “Robot’s weight distribution influence on angular momentum produced by a standing vertical jump”. IEEE Latin America Transactions, Vol. 14, No. 4, pp. 1669-1676, 2016. 	