

**PUBLICACIONES DERIVADAS DE LAS TESIS DEFENDIDAS EN EL PROGRAMA DE
DOCTORADO EN “SISTEMAS ELECTRÓNICOS AVANZADOS. SISTEMAS
INTELIGENTES” EN EL AÑO 2016**

Doctorando	David Gualda Gómez
Fecha lectura	25/02/2016
<ul style="list-style-type: none"> - T. Aguilera, F. Álvarez, D. Gualda, J. Villadangos, A. Hernandez, J. Ureña, “Multipath Compensation Algorithm for TDMA-Based Ultrasonic Local Positioning Systems”. IEEE Transactions on Instrumentation and Measurement, Vol 67 (5), pp 984-99, Mayo 2018 - D. Gualda, J. Ureña, J.C. García, E. García, J. Alcalá, “Simultaneous calibration and navigation (SCAN) of multiple ultrasonic local positioning systems”. Information Fusion 45 (2019) 53–65 (2017) - D. Gualda, J. Ureña, En. García, “Partially Constrained Extended Kalman Filter for Navigation Including Mapping Information”, IEEE Sensors Journal, Vol 16, Issue 24, pp 9036 - 9046, Octubre 2016. - D. Gualda, J. Ureña, J.C. García and A. Lindo, “Locally-Referenced Ultrasonic – LPS for Localization and Navigation”. Sensors, 14, pp. 21750-21769 (2014) 	

Doctorando	Cristina Diego Guijarro
Fecha lectura	2/06/2016
<ul style="list-style-type: none"> - M. C. Pérez, R. García, A. Hernández, A. Jiménez, C. Diego, J. Ureña, “SoC-Based Architecture for an Ultrasonic Phased Array With Encoded Transmissions”. IEEE Transactions on Circuits and Systems I, 62(3), pp. 873-880 (2015) - C. Diego, A. Jiménez, A. Hernández, C. J. Martín-Arguedas and C. Gutiérrez. “Improved Ultrasonic Phased Array based on Encoded Transmissions for Obstacle Detection”. IEEE Sensors Journal, 15(2), pp. 827-835 (2015). - C. Diego, A. Hernández, A. Jiménez, F. J. Álvarez, R. Sanz, “Ultrasonic array for obstacle detection based on CDMA with Kasami codes”. Sensors, 11, pp. 11464-11475, (2011) 	

Doctorando	Estefanía Muñoz Díaz Ropero
Fecha lectura	15/07/2016
<ul style="list-style-type: none"> - E. Munoz Diaz, F. De Ponte Müller, J.J. García Domínguez, “Use of the Magnetic Field for Improving Gyroscopes’ Biases Estimation”, Sensors, vol. 17, pp. 1-21, 2017. 	

- E. Munoz Diaz, *"Inertial Pocket Navigation System: Unaided 3D Positioning"*, Sensors, vol. 15, pp. 9156–9178, 2015.

Doctorando	Alfredo José Fernández Rodríguez
Fecha lectura	14/10/2016
<ul style="list-style-type: none"> - L. De Santiago, A. Fernández-Rodríguez, R. Blanco, C. Pérez-Rico, J.M. Rodríguez-Ascariz, R. Barea, L. Boquete, <i>"Improved measurement of intersession latency in mfVEPs"</i> (2014) Documenta Ophthalmologica, 129(1), pp. 65-69. - M.O. del Castillo, L. de Santiago, A. Fernández-Rodríguez, R. Blanco, J.M. Rodríguez-Ascariz, R. Barea, J.M. Miguel-Jiménez, E.M. Sánchez-Morla, L. Boquete, <i>"A new method for quantifying mfVEP signal intensity in multiple sclerosis"</i> (2015) Biomedical Signal Processing and Control, 22, pp. 119-125. - J.M. Miguel-Jiménez, R. Blanco, L. De-Santiago, A. Fernandez-Rodríguez, J.M. Rodriguez-Ascariz, R. Barea, J.L. Martín-Sánchez, C. Amo, E. Sánchez-Morla, L. Boquete, <i>"Continuous-wavelet-transform analysis of the multifocal ERG waveform in glaucoma diagnosis"</i> (2015) Medical & biological engineering & computing, 53(9), pp. 771-780. - L. De Santiago, A. Klistorner, M. Ortiz, A.J. Fernández-Rodríguez, J.R. Ascariz, R. Barea, J.M. Miguel-Jiménez, Boquete, <i>"Software for analysing multifocal visual evoked potential signal latency progression,"</i> (2015) Computers in biology and medicine, 59, pp. 134-141. - A. Fernández, L. De Santiago, R. Blanco, C. Pérez-Rico, J.M. Rodríguez-Ascariz, R. Barea, J.M. Miguel-Jiménez, J.R. García-Luque, M. Ortiz del Castillo, E.M. Sánchez-Morla, L. Boquete <i>"Filtering multifocal VEP signals using Prony's method,"</i> (2015) Computers in biology and medicine, 56, pp. 13-19. 	

Doctorando	Raquel Gutiérrez Rivas
Fecha lectura	28/10/2016
<ul style="list-style-type: none"> - R. Gutierrez-Rivas, J. J. Garcia, W. P. Marnane, and A. Hernandez, <i>"Novel Real-Time Low-Complexity QRS Complex Detector Based on Adaptive Thresholding,"</i> IEEE Sens. J., vol. 15, no. 10, pp. 6036–6043, Oct. 2015. 	

Doctorando	Francisco Domingo Pérez
Fecha lectura	10/11/2016
<ul style="list-style-type: none"> - F. Domingo, J. L. Lázaro, A. Wieser, E. Martin, D. Salido, A. de la Llana, <i>"Sensor placement determination for range-difference positioning using evolutionary multi-objective optimization"</i>. Expert Systems with Applications, 47, pp. 95-105 (2016). 	

- F. Domingo, J. L. Lazaro, I. Bravo, A. Gardel, D. Rodriguez, "Optimization of the coverage and accuracy of an indoor positioning system with a variable number of sensors". *Sensors* (Switzerland), 16 (6), art. no. 934 (2016).

Doctorando	Luís de Santiago Rodrigo
Fecha lectura	18/11/2016
<ul style="list-style-type: none"> - L. De Santiago, A. Fernández, R. Blanco, C. Pérez-Rico, J.M. Rodríguez-Ascariz, R. Barea, J.M. Miguel-Jiménez, C. Amo, E.M. Sánchez-Morla, L. Boquete "<i>Improved measurement of intersession latency in mfVEPs</i>" (2014) <i>Documenta Ophthalmologica</i>, 129(1), pp. 65-69. - M.O. del Castillo, L. de Santiago, A. Fernández, R. Blanco, J.M. Rodríguez-Ascariz, R. Barea, J.M. Miguel-Jiménez, Sánchez-Morla, E.M., L. Boquete, "<i>A new method for quantifying mfVEP signal intensity in multiple sclerosis,</i>" (2015) <i>Biomedical Signal Processing and Control</i>, 22, pp. 119-125. - L. De Santiago, A. Klistorner, M. Ortiz, A.J. Fernández-Rodríguez, J.R. Ascariz, R. Barea, J.M. Miguel-Jiménez, Boquete, "<i>Software for analysing multifocal visual evoked potential signal latency progression,</i>" (2015) <i>Computers in biology and medicine</i>, 59, pp. 134-141. - A. Fernández, L. De Santiago, R. Blanco, C. Pérez-Rico, J.M. Rodríguez-Ascariz, R. Barea, J.M. Miguel-Jiménez, J.R. García-Luque, M. Ortiz del Castillo, E.M. Sánchez-Morla, L. Boquete, "<i>Filtering multifocal VEP signals using Prony's method,</i>" (2015) <i>Computers in biology and medicine</i>, 56, pp. 13-19. - L. De Santiago, M.O. del Castillo, R. Blanco, R. Barea, J.M. Rodríguez-Ascariz, J. M., Miguel-Jiménez, E.M. Sánchez-Morla, L. Boquete, "<i>A signal-to-noise-ratio-based analysis of multifocal visual-evoked potentials in multiple sclerosis risk assessment,</i>" (2016) <i>Clinical Neurophysiology</i>, 127(2), pp. 1574-1580. - C. Amo, M.O. del Castillo, R. Barea, L. de Santiago, A. Martínez-Arribas, P. Amo-López, L. Boquete, "<i>Induced Gamma-Band Activity During Voluntary Movement: EEG Analysis for Clinical Purposes,</i>" (2016) <i>Motor control</i>, 20(4), pp. 409-428. - C. Amo, L. De Santiago, D.Z. Luciáñez, J.M.L. Alonso-Cortés, M. Alonso-Alonso, R. Barea, L. Boquete, "<i>Induced gamma band activity from EEG as a possible index of training-related brain plasticity in motor tasks</i>" (2017) <i>PloS one</i>, 12(10), e0186008. - C. Amo, L. de Santiago, R. Barea, A. López-Dorado, L. Boquete, "<i>Analysis of gamma-band activity from human EEG using empirical mode decomposition</i>" (2017) <i>Sensors</i>, 17(5), 989. - L. Malmqvist, L. de Santiago, L. Boquete, S. Hamann, "<i>Multifocal visual evoked potentials for quantifying optic nerve dysfunction in patients with optic disc drusen</i>" (2017) <i>Acta ophthalmologica</i>, 95(4), pp. 357-362. 	

- L. de Santiago, E. Sánchez-Morla, R. Blanco, J.M. Miguel, C. Amo, M.O. del Castillo, A. López, L. Boquete, *“Empirical mode decomposition processing to improve multifocal-visual-evoked-potential signal analysis in multiple sclerosis”* (2018). PloS one, 13(4), e0194964.