

**PUBLICACIONES DERIVADAS DE LAS TESIS DEFENDIDAS EN EL PROGRAMA DE
DOCTORADO EN “SISTEMAS ELECTRÓNICOS AVANZADOS. SISTEMAS
INTELIGENTES” EN EL AÑO 2011**

Doctorando	Pedro Jiménez Molina
Fecha lectura	18/03/2011
<ul style="list-style-type: none"> - P. Jiménez, L. M. Bergasa, J. Nuevo, I. G. Daza, N. Hernández, “<i>Gaze Fixation System for the evaluation of Driver Distractions induced by IVIS</i>”, IEEE Transactions on Intelligent Transportation Systems (ISSN: 1524-9050) doi: 10.1109/TITS.2012.2187517, Vol: 13, Nº: 3, pp: 1167-1178, September 2012 - P. Jiménez, L. M. Bergasa, J. Nuevo, P. F. Alcantarilla, “<i>Face Pose Estimation with Automatic 3D Model Construction in Challenging Scenarios</i>” Editor’s Choice paper, Image and Vision Computing (ISSN: 0262-8856) doi: 10.1016/j.imavis.2012.06.013, Vol: 30, Nº: 9, pp: 589-602, September 2012 - P. Jimenez, J. Nuevo, L.M. Bergasa, M. A. Sotelo, “<i>Face Pose Estimation and Tracking Using Automatic 3D Model Construction</i>”, IET Computer Vision (ISSN: 1751-9632), Vol: 3, Nº: 2, pp: 93-102, 2009. 	

Doctorando	Pedro Rafael Fernández Barbosa
Fecha lectura	14/04/2011
<ul style="list-style-type: none"> - P.R. Fernández, J.L. Lázaro, A. Gardel, Ó. Esteban, A.E. Cano, P.A. Revenga, “<i>Location of optical fibers for the calibration of incoherent optical fiber bundles for image transmission</i>”. IEEE Transactions on Instrumentation and Measurement, 58 (9), pp. 2996-3003. - J.L. Lázaro, P.R. Fernández, A. Gardel, A.E. Cano, C.A. Luna, “<i>Sensor calibration based on incoherent optical fiber bundles (IOFB) used for remote image transmission</i>”. Sensors, 9 (10), pp. 8215-8229. - P.R. Fernández, J.L. Lázaro, A. Gardel, A.E. Cano, I. Bravo, “<i>A focusing method in the calibration process of image sensors based on IOFBs</i>”. Sensors, 10 (1), pp. 47-60 - P.R. Fernández, J.L. Lázaro-Galilea, A. Gardel, F. Espinosa, I. Bravo, A. Cano, “<i>Differential binary encoding method for calibrating image sensors based on IOFBs</i>”. Sensors, 12 (4), pp. 4133-4155 - P.R. Fernández, J.L. Lázaro, A. Gardel, I. Bravo, A. Cano, C. Luna, “<i>Improving the calibration of image sensors based on IOFBs, using Differential Gray-Code Space Encoding</i>”. Sensors 	

(Molecular Diversity Preservation International (MDPI)), 12 (7), pp. 9006-9023

- J. Garcia, A. Gardel, I. Bravo, J.L. Lázaro, M. Martinez, D. Rodriguez, "Directional people counter based on head tracking". IEEE Transactions on Industrial Electronics, 60 (9), art. no. 6226855, pp. 3991-4000

Doctorando	Francisco Daniel Ruiz Pereda
Fecha lectura	11/07/2011
<ul style="list-style-type: none"> - F.D. Ruiz, Jesús Ureña, J.C. García, A. Jiménez, Á. Hernández, J.J. García "LPS auto-calibration algorithm with predetermination of optimal zones". Sensors, 11, pp. 10398-10414 (2011). - D. Ruiz, J. Ureña, J.C. García, J.M. Villdangos, C. Pérez, E. García, "Efficient Trilateration Algorithm using Differences of Time of Arrival". Sensors and Actuators A: Physical, 193, pp. 2951-2962 (2015) - A. Jiménez, Á. Hernández, D. Ruiz, I. Gude, C. De Marziani, M.C. Pérez, F. J. Álvarez, C. Gutiérrez, J. Ureña, "EMFi-based ultrasonic sensory array for 3D localization of reflectors using positioning algorithms". IEEE Sensors, pp.2951-2962 (2015) 	

Doctorando	Sirona Valdueza Felip
Fecha lectura	28/07/2011
<ul style="list-style-type: none"> - S. Valdueza-Felip, F.B. Naranjo, M. González-Herráez. H. Fernández, J. Solis, F. Guillot, E.Monroy, L. Nevou, M. Chernycheva, F.H. Julien "Characterization of the Resonant Third-Order Nonlinear Susceptibility of Si-Doped GaN-AlN Quantum Wells and Quantum Dots at 1.5 μm" IEEE Photonics Technology Letters. 2008, vol 20, p. 1366-1368. - F.B. Naranjo, M. González-Herráez, S. Valdueza-Felip, H. Fernández, J. Solis, S. Fernández, E. Monroy, J. Grandal, M.A. Sánchez-García "Non-linear properties of nitride-based nanostructures for optically controlling the speed of light at 1.5 μm". Microelectronics Journal. 2009, vol 40, p. 349-352 - F. B. Naranjo, P. K. Kandaswamy, S. Valdueza-Felip, L. Lahourcade, V. Calvo, M. González-Herráez, S. Martín-López, P. Corredera, And E. Monroy "Novel InN/InGaN multiple quantum well structures for slow-light generation at telecommunication wavelengths" Physica status solidi (c). 2010, vol 7, núm 1, p. 100-103. - S. Valdueza-Felip, F.B. Naranjo, M. González-Herráez. L. Lahourcade, E.Monroy, S. Fernández. "Influence of deposition conditions on nanocrystalline InN layers synthesized on Si (1 1 1) and 	

- GaN templates by RF sputtering*". Journal of Crystal Growth. 2010, vol 312, p. 2689-2694.
- S. Fernández, F.B. Naranjo, S. Valdueza-Felip, O. De Abril "Applications of ZnO: Al deposited by RF sputtering to InN low-cost technology" Physica Status Solidi (A) Applied Research. 2010, vol 207, p. 1717-1721.
 - F. B. Naranjo, P. K. Kandaswamy, S. Valdueza-Felip, V. Calvo, M. González-Herráez, S. Martín-López, P. Corredera, J. A. Méndez, G. R. Mutta, B. Lacroix, P. Ruterana And E. Monroy "Non-linear absorption of InN/InGaN multiple-quantum-well structures at optical telecommunication wavelengths" Applied Physics Letters. 2011, vol 98, p. 319020-319020
 - O. Esteban, F.B. Naranjo, N. Díaz-Herrera, S. Valdueza-Felip, M.-C. Navarrete, A. González-Cano "High-sensitive SPR sensing with Indium Nitride as dielectric overlay of optical fibers" Sensors and Actuators, B: Chemical. 2011, vol 158, p. 372-376.
 - S. Valdueza-Felip, F.B. Naranjo, M. González-Herráez. L. Lahourcade, E. Monroy, S. Fernández "High-surface-quality nanocrystalline InN layers deposited on GaN templates by RF sputtering". Physica Status Solidi (A) Applied Research. 2011, vol 208, p. 65-69.
 - S. Valdueza-Felip, L. Monteagudo-Lerma, J. Mangeney, M. González-Herráez, F.H. Julien, F. B. Naranjo, "Nonlinear absorption at optical telecommunication wavelengths of InN films deposited by RF sputtering". IEEE Photonics Technology Letters. 2012
 - S. Fernández, F.B. Naranjo, O. De Abril, S. Valdueza-Felip, "Development of ZnO:Al based transparent contacts deposited at low-temperature by RF magnetron sputtering on InN layers". physica status solidi (c). 2012, vol 9, p. 1065-1069
 - S. Valdueza-Felip, L. Rigutti, F.B. Naranjo, P. Ruterana, J. Mangeney, F.H. Julien, E. Monroy. "Carrier localization in InN/InGaN multiple-quantum wells with high In-content" Applied Physics Letters. 2012, vol 101, p. 62109-62109
 - S. Valdueza Felip, J. Ibáñez, E. Monroy, M. González Herráez, I. Artús, F.B. Naranjo Vega, "Improvement of InN layers deposited on Si(111) by RF sputtering using a low-growth-rate InN buffer layer". Thin Solid Films. 2012
 - S. Valdueza-Felip, L. Rigutti, F.B. Naranjo, B. Lacroix, S. Fernández, P. Ruterana, F.H. Julien, M. González-Herráez, E. Monroy "Infrared photoluminescence of high In-content InN/InGaN multiple-quantum-wells". Physica Status Solidi. 2012, vol 209, p. 17-20

Doctorando	Francisco Huerta Sánchez
Fecha lectura	29/09/2011
<ul style="list-style-type: none"> - F. Huerta, S. Stynski, S. Cóbreces, M. Malinowski, FJ. Rodríguez, “<i>Novel control of three-phase active front-end converter with compensation of unknown grid-side inductance</i>”. IEEE Transactions on Industrial Electronics 58 (8), 3275-3286, 2011 - F. Huerta, D. Pizarro, S. Cobreces, FJ. Rodriguez, C. Giron, A. Rodriguez, “<i>LQG servo controller for the current control of $\\$ LCL \\$ grid-connected voltage-source converters</i>”. IEEE Transactions on Industrial Electronics 59 (11), 4272-4284, 2012. 	

Doctorando	Iván García Daza
Fecha lectura	14/10/2011
<ul style="list-style-type: none"> - 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), doi:10.1016/j.eswa.2015.06.016, 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 (ISSN 1424-8220) doi:10.3390/s140101106, Vol: 14, Nº: 1, pp: 1106-1131, 2014 	

Doctorando	Pablo Fernández Alcantarilla
Fecha lectura	21/10/2011
<p>P. F. Alcantarilla, L. M. Bergasa, A. Davison, “<i>Gauge-SURF Descriptors</i>”, Image and Vision Computing (ISSN: 0262-8856), Vol: 31, Nº: 1, pp: 103- 116, 2013.</p> <p>P.F. Alcantarilla, O. Stasse, S. Druon, L. M. Bergasa, F.Dellaert, “<i>How to Localize Humanoids with a Single Camera?</i>”, Autonomous Robots (ISSN 0929-5593), Vol: 34, Nº:1-2, pp:47-71, 2013</p> <p>P.F. Alcantarilla, L.M. Bergasa, P. Jiménez, I.Parra, D. F. Llorca, M.A. Sotelo, S.S. Mayoral, “<i>Automatic LightBeam Controller for Driver Assistance</i>”, Machine Vision and Applications (ISSN: 0932-8092) doi: 10.1007/s00138-011-0327-y, Vol: 22, Nº 5, pp: 819-835, 2011</p> <p>L. M. Bergasa, P. F. Alcantarilla and D. Schleicher, “<i>Non-Linearity Analysis of Depth and Angular Indexes for Optimal Stereo SLAM</i>”, Sensors (ISSN 1424-8220), Vol: 10, Nº 4, pp: 4159-4179, 2010.</p>	