

## Memorias Arbitradas Publicadas

### Astrofísica

1. Gil de Paz, A., García-Vargas, M. L., Gallego, J., Sánchez-Blanco Mancera, E., Pérez Calpena, A., Maldonado Medina, M., Zamorano Calvo, J., **Carrasco, E.**, Sánchez Moreno, F. M., Vílchez Medina, J. M., **Ferrusca, D.**, Castillo Morales, A., Eliche Moral, M., Pascual, S., González Guardia, E., "MEGARA: the future optical IFU and multi-object spectrograph for the 10.4m GTC Telescope", SPIE Astronomical Telescopes + Instrumentation 2012.
2. **Castillo Domínguez, E., Ferrusca Rodríguez, D.**, Tulloch, S., **Velázquez de la Rosa, M.** & MEGARA Team, "Cryostat and CCD for MEGARA at GTC". SPIE Astronomical Telescopes + Instrumentation 2012.
3. **Chavushyan, V.**, Erastova, L., Tovmassian, G., **Torrealba, J., Valdez, J. R.**, "SBS 0802+529: a New Variable Star from the Second Byurakan Survey", BaltA 21, 200-205, 0/2012.
4. **Gómez-Gil, P.**, **López-Cruz, O.**, & **Cruz-Martínez, A. B.**, 2012, "Improving Neural-Based Classification of Databases with Overlapped Classes: the Case of Star/Galaxy Segregation", Proceedings of LASCAS 2012, 3rd IEEE Latin American Symposium on Circuits and Systems, Playa del Carmen, Feb. 29-Mar. 2, 2012., 4 pages.
5. **Tenorio-Tagle, G.**, "On the Metallicity of Blue Compact Dwarfs", 2012 en Dwarf Galaxies: Keys to Galaxy Formation and Evolution, Astrophysics & Space, Science proceedings, Eds. P. Papaderos, S. Recchi & G. Hensler, pp. 253-256, 0/2012.

### Óptica

6. E. Villanueva-Luna, A. Santiago-Alvarado, **J. Castro-Ramos**, S. Vázquez-Montiel; A. Flores-Gil, J. Aguilar-Soto, J. A. Delgado-Atencio. "Low abundances of synthetic lipids in phantoms". Photonics West Optical Diagnostics and Sensing XII: Toward Point-of-Care Diagnostics; and Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement of Tissue IV, [Robert J. Nordstrom](#); [Gerard L. Coté](#) Editors, [Proceedings of SPIE Vol. 8229](#), celebrado en San Francisco, CA: del 21 al 26 de enero de 2012. 82290S-1-82290S-7.
7. A. E. Villanueva-Luna, **J. Castro-Ramos**, S. Vázquez-Montiel, A. Flores-Gil, C. M. Ortiz-Lima, J. A. Delgado-Atencio. "Raman spectroscopy of blood in-vitro". Photonics West Optical Diagnostics and Sensing XII: Toward Point-of-Care Diagnostics; and Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement of Tissue IV, Robert J. Nordstrom; Gerard L.

## Memorias Arbitradas Publicadas

- Coté, Proceedings Vol. 8229, celebrado en San Francisco, CA. del 21 al 26 de enero de 2012.
8. E. V. Garcia Ramirez, M. L. Arroyo Carrasco, M. M. Mendez Otero, E. Reynoso Lara, **S. Chávez Cerda**, M. D. Iturbe Castillo. "Nonlinear refractive and absorptive response of a thin nonlocal media". Nonlinear Photonics (Optical Society of America, Washington, DC, 2012), celebrado Colorado, E. U. del 17 al 22 de junio de 2012. JM5A.54.
  9. H. A. Jiménez-Romero, **S. Chávez-Cerda**, "Traveling waves approach for Airy beams". 8th EOS Topical Meeting on Diffractive Optics 2012 (DO 2012) celebrado en Delf, Netherlands del 27 de febrero al 1 marzo de 2012.
  10. Joel Santos-Aguilar, **Celso Gutiérrez-Martínez**. "A polarization-insensitive wide-band electric field sensing scheme using coherence modulation of light". IEEE Instrumentation and Measurement Technology Conference del 13 al 16 de mayo de 2012 en Graz, Australia. 1949-1952.
  11. Rafael Izazaga-Pérez, **Fermín S. Granados-Agustín**, María Elizabeth Percino-Zacarías, **Esperanza Carrasco-Licea**. "Optical test by sub-apertures applied to a 6.5 m. mirror". Imaging and Applied Optics celebrado en Monterey, California, USA del . 24 al 28 de junio de 2012.
  12. O. Pottiez, A. Martínez-Ríos, D. Monzón-Hernández, **B. Ibarra-Escamilla**, E. A. Kuzin, J. C. Hernández-García. "Dual-wavelength operation of continuous-wave and mode-locked erbium-doped fiber lasers". Laser Sources and Applications, Proc. of SPIE Vol. 8433, (2012). 843306.
  13. R. I. Álvarez-Tamayo, M. Dúran-Sánchez, O. Pottiez, **B. Ibarra-Escamilla**, E. A. Kuzin. "Investigation of cavity loss adjustment between two wavelengths required for dual-wavelength laser generation". Fiber Lasers IX: Technology, Systems, and Applications, Proc. of SPIE Vol. 8237, (2012). 823723.
  14. D. Ramírez Martínez, M. M. Mendez Otero, M. L. Arroyo Carrasco, **M. D. Iturbe Castillo**. "Asymmetric collision of two bright solitons in a Kerr media". Nonlinear Photonics (Optical Society of America, Washington, DC, 2012), celebrado Colorado, E. U. del 17 al 22 de junio de 2012. JM5A.55.
  15. Robert Keil, Armando Pérez-Leija, **Hector Moya-Cessa**, Alexander Szameit, Demetrios, N. Christodoulides. "Observation of Bloch-like oscillations in Glauber-Fock oscillator lattices". Quantum Electronics and Laser Science Conference (QELS) celebrado en San José, CA. del 6 al 11 de mayo de 2012. QTh1E.2.

## Memorias Arbitradas Publicadas

16. Armando Pérez-Leija, Robert Keil, **Hector Moya-Cessa**, Alexander Szameit, Demetrios N. Christodoulides. "Quantum state transformations by multiport array beam splitters". Quantum Electronics and Laser Science Conference (QELS) celebrado en San José, California del 6 al 11 de mayo de 2012. Novel Quantum Optical Effects, QM1E.
17. S. Toxqui-López, **A. Olivares-Pérez**, B. Pinto-Iguanero, A. Aguilar-Mora, I. Fuentes-Tapia. "PVA glue as a recording holographic medium". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 doi: 10.1117/12.906828 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 828102-1, 828102-6.
18. **A. Olivares-Pérez**, S. Toxqui-López, I. Fuentes-Tapia, M. Ortiz-Gutiérrez, G. Mellano-Villaseñor. "Photosensitive holographic material with a médium of fluorescent ink". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 doi: 10.1117/12.906936 celebrado en San Francisco California USA del 21 al 26 de enero de 2012. 828103-1, 828103-7.
19. M. J. Ordóñez-Padilla, **A. Olivares-Pérez**, V. Dorantes-García, R. Vallejo-Mendoza, I. Fuentes-Tapia. "Study of holograms made with saccharides and iron ions". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 doi: 10.1117/12.909018 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 828111-1, 828111-6 .
20. M. J. Ordóñez-Padilla, **A. Olivares-Pérez**, L. R. Berriel-Valdos, M. Ortiz- Gutiérrez, J. F. Villa-Manríquez. "Analysis of Albumin Hologram". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 · doi: 10.1117/12.909129 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 828112-1, 828112-6 .
21. Gabriel Mellado-Villaseñor, Mauricio Ortiz-Gutiérrez, Mario Pérez-Cortés, Juan Carlos Ibarra-Torres, **Arturo Olivares-Pérez**, Santa Toxqui-López. "Interferometric measurement of refraction index of dye-doped photopolymer". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 doi: 10.1117/12.909309 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 828113-1, 828113-8.
22. R. Vallejo-Mendoza, **A. Olivares-Pérez**, N. Korneev, V. Dorantes- García and M. J. Ordóñez-Padilla. "The efficiency of holograms with registration nitrocellulose and FeCl3". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 doi:

## Memorias Arbitradas Publicadas

- 10.1117/12.909533 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 828114-1, 828114-7 .
23. B. Pinto-Iguanero, **A. Olivares-Pérez**, S. Toxqui-López, I. Fuentes-Tapia. "Study of the behavior of the diffraction efficiency of a function of thickness using holographic gratings as material registration with gum Arabic ammonium dichromate". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 doi: 10.1117/12.909549 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 828115-1, 828115-7.
24. José Fabián Villa-Manríquez, Mauricio Ortiz-Gutiérrez, Mario Pérez-Cortés, Juan Carlos Ibarra-Torres, **Arturo Olivares-Pérez**, Manuel Jorge Ordoñez-Padilla. "Characterization of a PDLC mixed with crystal violet dye". SPIE 8279, Emerging Liquid Crystal Technologies VII, Liang-Chy Chien, Editors, CCC code: 0277-786X/12/\$18 doi: 10.1117/12.909279 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 827917-1, 827917-7.
25. J. P Padilla-Martinez, Darren Banks, **J. C. Ramirez-San-Juan**, R. Ramos-Garcia, G. Aguilar. "Generation of thermocavitation bubbles within a droplet". ILASS Americas, 24<sup>th</sup> Annual Conference on Liquid Atomization and spray Systems, celebrado en San Antonio Texas, USA del 20 al 23 de mayo de 2012.
26. Anel Garza-Rivera, **Carlos G. Trevino-Palacios**, Francisco J. Renero-Carrillo. "Design of optical interconnects inspired in multi-aperture optics based in compound insect eyes". SPIE Photonics Europe Conference 8428, Micro-Optics 2012 (2012);<http://dx.doi.org/10.1117/12.921697> celebrado en Bruselas, Belgica del 16 al 19 de abril de 2012.
27. Jose R. Guzman-Sepulveda, Rene Dominguez-Cruz, **José J. Sánchez-Mondragón**, Daniel A. May-Arriola. "Curvature sensor based on a two-core optical fiber". CLEO Technical Conference San Jose Convention Center celebrado en San José, CA. del 6 al 11 de mayo de 2012. J-JW2A.116.
28. **A. Shcherbakov**, A. V. Hanessian de la Garza, **V. Chavushyan**, J. Campos Acosta. "Arrangement of an advanced acousto-optical processor for modeling the triple correlations of low-power optical pulse trains". Proceedings of SPIE , Photonics West Conference, LACE, Vol. 8240 celebrado en San Francisco, CA, USA del 21 al 26 de enero de 2012, San Francisco, CA, USA). 8240-10-1–8240-10-11.
29. **A. Shcherbakov**, A. V. Hanessian de la Garza, **V. Chavushyan**, S. A. Nemov. "A Multi-phonon light scattering and resolution of acousto-optical devices". Proceedings of SPIE , Photonics West Conference, LACE, Vol. 8240 celebrado en San Francisco, CA, USA del 21 al 26 de enero de 2012, San Francisco, CA, USA).

## Memorias Arbitradas Publicadas

8240-1S-1 – 8240-1S-11.

30. Estela López-Olazagasti, César Eduardo Hernández y del Callejo, Jorge Ibarra-Galitzia, Gustavo Ramírez-Zavaleta, **Eduardo Tepichín**. "Analysis of incidence of keratoconus in relatives of patients who underwent corneal transplant due to advanced keratoconus using the orbiscan ii topographic graphs". Eighth Symposium Optics in Industry, Edited by Eric Rosas, Norberto Arzate, Ismael Torres, Juan Sumaya, Proc. of SPIE, Vol. 8287, 828705 © 2011 SPIE CCC code: 0277-786/11/\$18 doi: 10.1117/12.906760.
31. Elizabeth López-Meléndez, Luis David Lara-Rodríguez, Estela López-Olazagasti, Bárbara Sánchez-Rinza, **Eduardo Tepichin-Rodríguez**. "Bicad: Breast image computer aided diagnosis for standard birads 1 and 2 in calcifications". Conielectrocomp 2012, memorias en cd, IEEE catalog number: CFP12363-CDR, ISBN: 978-1-61284-1324-8.
32. Gerhard X. Ritter, Darya Chyzyk, **Gonzalo Urcid**, Manuel Graña. "A novel lattice associative memory based on dendritic computing". Hybrid Computational Intelligence and Lattice Computing for Image and Signal Processing 2. Hybrid Artificial Intelligent Systems, HAIS 2012., Springer Lecture Notes in Computer Science, Vol. 7209, Part II celebrado en Salamanca, España del al 28 al 30 de marzo de 2012. 2012491-502.
33. **Gonzalo Urcid**, Gerhard X. Ritter. "C-means clustering of lattice auto-associative memories for endmember approximation". 2<sup>nd</sup> Workshop on hyperspectral image Processing: Intelligent Systems for Remote Sensing and High Performance Computing, Knowledge Based and Intelligent Engineering Systems celebrado en San Sebastian, España KES 2012., September 2012.
34. E. Villanueva-Luna<sup>1</sup>, **J. Castro-Ramos**, **S. Vazquez-Montiel**, A. Flores-Gil, C. M. Ortiz-Lima, J. A Delgado-Atencio. "Raman spectroscopy of blood in-vitro". Photonics West Optical Diagnostics and Sensing XII: Toward Point-of-Care Diagnostics; and Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement of Tissue IV, Robert J. Nordstrom; Gerard L. Coté, Proceedings Vol. 8229, celebrado en San Francisco, CA. del 21 al 26 de enero de 2012. 82291D-1-82291D-7.
35. Beatriz Morales Cruzado, **Sergio Vázquez y Montiel**, José Alberto Delgado Atencio. "Optical properties in simulated human skin at a wavelength of 633 nm". Photonics West Diagnostics; and Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement of Tissue IV, Robert J. Nordstrom; Gerard L. Coté, Proceedings Vol. 8229, celebrado en San Francisco, CA. del 21 al 26 de enero de 2012. 82291J-1-82291J-7.

## Memorias Arbitradas Publicadas

36. José Alberto Delgado Atencio, Beatriz Morales Cruzado, **Sergio Vázquez y Montiel**. "Influence of air bubbles on the recovery of optical properties". Photonics West Diagnostics; and Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement of Tissue IV, Robert J. Nordstrom; Gerard L. Coté, Proceedings Vol. 8229, celebrado en San Francisco, CA. del 21 al 26 de enero de 2012. 82291K-1-82291K-9.
37. J. Medina Márquez, **Carlos Zuñoga Islas, Sandra Balderas Mata**. "Aritmética cromática". IX Encuentro: Participación de la Mujer en la Ciencia celebrado en León, Guanajuato del 16 al 18 de mayo de 2012, memorias en extenso, ISBN 978-607-95228-3-4; Sesión 3.
38. Elizabeth López Meléndez, Luis David Lara Rodríguez, Estela López Olazagasti, Jorge Ibarra Galitzia, Gustavo Ramírez Zavaleta, **Eduardo Tepichín Rodríguez**. "Asistente para el diagnóstico de calcificaciones en mastografías con patología benigna birads". IX Encuentro: Participación de la Mujer en la Ciencia celebrado en León, Guanajuato del 16 al 18 de mayo de 2012, memorias en extenso, ISBN 978-607-95228-3-4; Sesión 3. S3-MCS23.

### Electrónica

39. **Joel Molina**, Rafael Ortega, **Wilfrido Calleja, Pedro Rosales, Carlos Zuniga, and Alfonso Torres**. "Performance of a MOHOS-type Memory by Using Different Tunneling Oxide Thickness", IBERCHIP 2012, México, febrero 29-march 2, pp. 26-29, 2012.
40. Ruben Vazquez-Medina 1,2, José Luis Del-Río-Correa<sup>3</sup>, César Enrique Rojas-López<sup>1</sup>, **José Alejandro Díaz-Méndez** Digital Chaotic Noise using Tent Map without Scaling and Discretization Process, HAIS'12. International Conference on Hybrid Artificial Intelligence Systems, Salamanca, Spain, Marzo of 2012.
41. M. Huixtlaca-Quintana, J.M. Rocha-Perez, **A. Díaz-Sánchez**, C. Muñoz-Montero, "Circuito para la Extracción de Raíz Fraccional Usando Transistores en Inversión Débil," Memorias del XVIII Workshop Iberchip, Febrero del 2012, Playa del Carmen, Mexico.
42. S.A. Arroyo Díaz, **A. Díaz Sanchez**, A.Z. Escudero Uribe, "Architecture for myoelectric features extraction by H.O.S. of four sMES channels," Memorias del XVIII Workshop Iberchip, Febrero del 2012, Playa del Carmen, Mexico.
43. Ma. del Rocio de Jesus Ventura, Isaac Esau Jimenez Benitez, **Luis Hernandez-Martinez, Monico Linares-Aranda**, "Implementacion de una celda CNN digital en FPGA para la aplicación de detecciones de bordes", Proceedings of the XVIII



## Memorias Arbitradas Publicadas

- International IBERCHIP workshop. Playa del Carmen, Mexico, 2012. ISSN: 977-2177-128009.
44. Gerardo Molina Salgado and **Gordana Jovanovic Dolecek**, “Non-recursive Comb-Decimation Filter With an Improved Alias Rejection, “ 3rd Latin American Symposium on Circuits and Systems (LASCAS 2012), to be held in Playa del Carmen, Mexico, from February 29 to March 2, 2012. (Published by IEEEExplore, 2012, Digital Object Identifier: 10.1109/LASCAS.2012.6180305, pp1-4).
  45. D. Troncoso, **G. Jovanovic Dolecek**, M. Laddomada, “Design of Multiplierless Linear-Phase Comb Corrector Filters for Multirate Applications, “ 3rd Latin American Symposium on Circuits and Systems (LASCAS 2012), to be held in Playa del Carmen, Mexico, from February 29 to March 2, 2012. (Published by IEEEExplore, 2012, Digital Object Identifier: 10.1109/LASCAS.2012.6180305, pp1-4).
  46. Eric M. Silva C., **G. Jovanovic Dolecek**, and Fredric J. Harris, “Cell Search in Long Term Evolution Systems: Primary and Secondary Synchronization, “ 3rd Latin American Symposium on Circuits and Systems (LASCAS 2012), to be held in Playa del Carmen, Mexico, from February 29 to March 2, 2012. (Published by IEEEExplore, 2012, Digital Object Identifier: 10.1109/LASCAS.2012.6180305, pp1-4).
  47. **Gordana Jovanovic Dolecek**, and Gerardo Molina Salgado “Low Power Non-Recursive Comb-Based Decimation Filter Design, “ 5th International IEEE Symposium on Communications, Control, and Signal Processing, (ISCCSP 2012) Rome, Italy from May 2-4, 2012.
  48. David Ernesto Troncoso Romero, Miriam Guadalupe Cruz Jimenez, **Gordana Jovanovic Dolecek**, “A New Pipelined-Interleaved Structure for FIR Hilbert Transformers Based on Frequency Transformation Technique,” 5th International IEEE Symposium on Communications, Control, and Signal Processing, (ISCCSP 2012) Rome, Italy from May 2-4, 2012.
  49. Francisco Temoltzi Avila, **Andrey Kosarev**, Ismael Cosme, **Mario Moreno**, P. Roca i Cabarrocas, “Temperature dependence of current-voltage characteristics in  $\mu\text{-Si:H}$  and  $\text{pm-Si:H}$  PIN structures”, Mater. Res. Soc. Symp. Proc. Vol. 1426, San Fco. California, April 9-13, 2012.
  50. O. González-Díaz, **R. Torres-Torres**, **M. Linares-Aranda**, “The influence of interconnection length on expanded non-resonant ring oscillators, “Proceedings of the IEEE Third Latin American Symposium on Circuits and Systems (LASCAS), pp. 1-4, Mar. 2012.

---

## Memorias Arbitradas Publicadas

51. **Martinez-Carballido**, J.; Morales-Velazquez, M.; "Using adaptive threshold to detect pedestrians crossing on a street for Advanced Driver Assistance Systems," Electrical Communications and Computers (CONIELECOMP), 2012 22nd International Conference on , vol., no., pp.179-182, 27-29 Feb. 2012 doi: 10.1109/CONIELECOMP.2012.6189905 ISBN: 978-1-61284-1324-8
52. **Martinez-Carballido**, J.; Perez-Aguilar, E.; "Detecting automobiles on real street environment for Advanced Driver Assistance Systems by its projected shadow," Electrical Communications and Computers (CONIELECOMP), 2012 22nd International Conference on , vol., no., pp.108-112, 27-29 Feb. 2012 doi: 10.1109/CONIELECOMP.2012.6189891 ISBN: 978-1-61284-1324-8
53. Bermudez-Gomez, C.R.; **Enriquez-Caldera**, R.; **Martinez-Carballido**, J.; "Chirp signal detection using the Duffing oscillator," Electrical Communications and Computers (CONIELECOMP), 2012 22nd International Conference on , vol., no., pp.344-349, 27-29 Feb. 2012 doi: 10.1109/CONIELECOMP.2012.6189936 ISBN: 978-1-61284-1324-8
54. Chavez-Barranco, S.; **Enriquez-Caldera**, R.; **Martinez-Carballido**, J. "Mathematical concepts on Classical Mechanics using computational methods," Electrical Communications and Computers (CONIELECOMP), 2012 22nd International Conference on , vol., no., pp.294-299, 27-29 Feb. 2012 doi: 10.1109/CONIELECOMP.2012.6189927 ISBN: 978-1-61284-1324-8.
55. **J. Molina**, R. Ortega, **W. Calleja**, **P. Rosales**, **C. Zuniga** and **A. Torres**, "Performance of a MOHOS-type Memory by Using Different Tunneling Oxide Thickness", Proceedings of the IBERCHIP XVIII Workshop, IBERCHIP-2012, pp. 26-29 (2012).
56. **J. Molina**, **C. Zuniga**, **W. Calleja**, **P. Rosales**, **A. Torres** and A. Herrera, "ALD of ultra-thin HfO<sub>2</sub> films on Si substrates having different silanol Si-OH densities after chemical oxidation using H<sub>2</sub>O<sub>2</sub>", Proceedings of the 12th International Conference on Atomic Layer Deposition, (ALD2012). June 17th-20th, Dresden, Germany (2012).
57. P. Roca i Cabarrocas, K.H. Kim, R. Cariou, M. Labrune, E.V. Johnson, **M. Moreno**, A. Torres Rios, S. Abolmasov, and S. Kasout, "Low Temperature Plasma Synthesis of Nanocrystals and their Application to the Growth of Crystalline Silicon and Germanium Thin Films", Mater. Res. Soc. Symp. Proc. Vol. 1426, San Fco. California, April 9-13, 2012.
58. G. Rosas, **R. Murphy**, **W. Moreno**, "Novel Fabrication Techniques for RF-MEMS Devices", Proceedings of the XVIII International IBERCHIP Workshop, Playa del Carmen, México, febrero 29-Marzo 2 2012, pp. 140-144.



## Memorias Arbitradas Publicadas

59. G. Álvarez, **R. Murphy, R. Torres**, "Accurate Modeling to Characterize the Distributed Substrate Effects in SiGe HBTs" Proceedings of the XVIII International IBERCHIP Workshop, Playa del Carmen, México, febrero 29-Marzo 2 2012, pp. 151-154.
60. F. Zárate, G. Álvarez, **R. Torres, R. Murphy**, "Extraction Methodology of the Substrate Parasitic Network of an RF-MOSFET with Separate Substrate DC Connection", Proceedings of the XVIII International IBERCHIP Workshop, Playa del Carmen, México, febrero 29-Marzo 2 2012, pp. 155-159.
61. Erick Rivera-Juarico, **Juan Manuel Ramírez-Cortés**, V. Alarcon-Aquino, J. **Escamilla-Ambrosio**, "Design and Implementation of the Discrete Wavelet Transform on an FPGA Platform to Process Data Sets of up to Three Dimensions", In Proceedings of the 22nd IEEE International Conference on Electronics, Communications, and Computers, CONIELECOMP 2012, Puebla Mexico, March 2012.
62. David D´Croz-Baron, **Juan Manuel Ramírez-Cortés**, Mary Baker, V. Alarcon-Aquino, Obed Carrera León, "A BCI Motor Imagery Experiment Based on Parametric Feature Extraction and Fisher Criterion", In Proceedings of the 22nd IEEE International Conference on Electronics, Communications, and Computers, CONIELECOMP 2012, Puebla Mexico, March 2012.
63. H. Lobato-Morales, Jim S. Sun, **A. Corona-Chavez**, T. Itoh, J. L. Olvera-Cervantes. UWB and WiLAN Microstrip Diplexer for Differential-Mode Operation. IEEE International Microwave Symposium 2012 (IMS-2012). Presentado Junio de 2012. Montreal Canada.
64. Richard Torrealba Melendez, **Jose Luis Olvera Cervantes** and **Alonso Corona Chavez**. Experimentos para formación de imágenes por medio de ondas electromagnéticas en el rango de microondas y sistemas de radar de banda ancha. VI Congreso Internacional de Ingeniería Física. Presentado el 12 de Junio del 2012. México D.F.
65. Miguel A. Dominguez, **Pedro Rosales, Alfonso Torres** and **Mario Moreno**. "Development of Low-Temperature Ambipolar a-SiGe:H Thin-Film Transistors Technology" Mater. Res. Soc. Symp. Proc. Vol. 1426 © (5 pages) 2012 Materials Research Society. ISSN: 1946-4274.
66. P.M. Maya-Hernández, **M.T. Sanz-Pascual**, B. Calvo-López, "A 1.8 V-0.18 $\mu$ m CMOS Lock-In Amplifier for Portable Applications", Proc. of the 2012 IEEE International Symposium on Circuits and Systems (ISCAS'12), pp. 668-671, 2012. ISSN: 978-1-4673-0219-7.

## Memorias Arbitradas Publicadas

67. E. Guerrero-Rodríguez, **M.T. Sanz-Pascual**, **J. Molina-Reyes**, N. Medrano, B. Calvo, D. Antolín, "Programmable Calibration Circuit for a MIM-ISFET Device", Proc. of the 2012 IEEE International Instrumentation and Measurement Technology Conference (I2MTC'12), pp. 1819-1822, 2012. ISSN: 978-1-4577-1772-7.
68. P.M. Maya-Hernández, **M.T. Sanz-Pascual**, B. Calvo, D. Antolín, "A CMOS Low-Power Lock-In Amplifier", Proc. of the 2012 IEEE International Instrumentation and Measurement Technology Conference (I2MTC'12), pp. 1804-1807, 2012. ISSN: 978-1-4577-1772-7.
69. E. Guerrero-Rodríguez, **M.T. Sanz-Pascual**, **J. Molina-Reyes**, N. Medrano-Marqués, B. Calvo-López, "A Digitally Programmable Calibration Circuit for Smart Sensors", Proc. of the 3rd IEEE Latin American Symposium on Circuits and Systems (LASCAS'12), 2012. ISSN: 978-1-4673-1208-0.
70. **J. Molina**, G. Espinosa, **A. Torres**, **M.T. Sanz**, E. Guerrero, B. Perez, J. Fernandez, J. Mckenna, M. Hoque, W. Chen, T. Mcnelly, R. De-Souza, P. Parris, "MIM-Based ISFET Sensors with CLOSED/OPEN Sense Plates for pH Detection", Proc. of the 3rd IEEE Latin American Symposium on Circuits and Systems (LASCAS'12), 2012. ISSN: 978-1-4673-1208-0.
71. H. Fuentes, D. García-Romeo, N. Medrano, B. Calvo, P.A. Martínez, C. Gimeno, **M.T. Sanz**, **M. Moreno**, **A. Torres**, "A SiGe Microbolometer Interface for Low-Power Microcontrolled Applications", Proc. of the 3rd IEEE Latin American Symposium on Circuits and Systems (LASCAS'12), 2012. ISSN: 978-1-4673-1208-0.
72. Carlos Hernández, **Arturo Sarmiento-Reyes** and Héctor Vázquez-Leal, "Existence of Multiple Operating Points in Memristive Circuits", 3rd IEEE LASCAS -Latin American Symposium on Circuits and Systems, Quintana Roo, México, 2012. ISBN: 978-1-4673-1206-6.
73. Francisco Castro-González, **Arturo Sarmiento-Reyes** and Francisco Zamudio-Saenz. "Effects of Single-Electron Transistor Parameter Variations on Hybrid Circuits Design", 3rd IEEE LASCAS -Latin American Symposium on Circuits and Systems, Quintana Roo, México, 2012. ISBN: 978-1-4673-1206-6.
74. Roberto Castañeda-Sheissa, Héctor Vázquez-Leal, Uriel Filobello-Niño, **Arturo Sarmiento-Reyes** and **Luis Hernández-Martínez**, "Método modificado de hiperesferas aplicado a homotopías biparamétricas: simulación de circuitos con transistores bipolares", IBERCHIP, Playa del Carmen, Quintana Roo, México, pp. 160-163, 2012. ISSN: 977-2177-128009.

---

## Memorias Arbitradas Publicadas

75. Gabriela A. Rodríguez, **Arturo Sarmiento** and **Edmundo Gutiérrez**, “A Schrödinger-Poisson CAD Tool for the Calculation of Tunneling Through Different Gate-Oxide Potential Profiles”, IBERCHIP, Playa del Carmen, Quintana Roo, México, pp. 160-163, 2012. ISSN: 977-2177-128009.
76. **E. Tlelo-Cuautle**, C. Sanchez-Lopez, S. X.-D. Tan, Symbolic Nodal Analysis of Analog Integrated Circuits Using Pathological Elements, IEEE NEWCAS, Special Session: Latest CAD Techniques for Analog/Mixed-Signal Circuit Design Automation, pp. 161-164, ISBN: 978-1-4673-0859-5, Montreal, June 17-20, 2012.
77. A. Sallem, M. Fakhfakh, **E. Tlelo-Cuautle**, M. Loulou, On the Optimal Design of CC-Based Active Filters, IEEE International conference on Design & Technology of Integrated Systems in nanoscale era (DTIS), Gammarth, Tunisia, May 16-18, 2012.
78. Santiago Rodriguez-Chavez, **Esteban Tlelo-Cuautle**, Adolfo A. Palma-Rodriguez and Sheldon X.-D. Tan, Symbolic DDD-based tool for the computation of noise in CMOS analog circuits, International Caribbean Conference on Devices, Circuits and Systems (ICCDACS), ISBN: 978-1-4577-1117-6, Playa del Carmen, México, March 14-17, 2012..
79. Adolfo A. Palma-Rodriguez, **Esteban Tlelo-Cuautle**, Santiago Rodriguez-Chavez, and Sheldon X.-D. Tan, DDD-Based Symbolic Sensitivity Analysis of Active Filters, International Caribbean Conference on Devices, Circuits and Systems (ICCDACS), ISBN: 978-1-4577-1117-6, Playa del Carmen, México, March 14-17, 2012..
80. M. Schauer, G. Romo, **R. Torres-Torres**, C. Nwachukwu, and S.-W. Beak, “Understanding and Mitigation of Fiber Weave Effects in Striplines”, DesignCon 2012, Feb. 2012.
81. A. García-Juárez, **I. E. Zaldívar-Huerta**, J. Rodríguez-Asomoza, R. Gómez-Colín, A. G Rojas-Hernández, D. Berman-Mendoza, R. Gómez-Fuentes and A. Vera Marquina, “Analog Photonic Link by Using DFB lasers Operated in the Low Laser Threshold Current Region and External Modulation”, SPIE Photonics West, January 21-26 2012, San Francisco, California, USA. Proceedings of SPIE Vol. 8282 82820-1.

## Memorias Arbitradas Publicadas

### Ciencias Computacionales

82. "Acceleration of the reflectance field acquisition using independent component analysis," Ma.Luisa Rosas Cholula, **Miguel Arias-Estrada**, Proceedings of the 16th IEEE Int. Conf. On Electronics, Communications and Computers (CONIELECOMP). Puebla, Mexico. Feb 27-29, 2012. pp. 74-79.
83. "Embedded attitude control system for the educative satellite SATEDU," M.A. Mendoza-Barcenas, E. Vizcaíno, E. Vicente-Vivas, **M. Arias-Estrada**, I. Mendoza, J.A. Colín,, Proceedings of the 16th IEEE Int. Conf. On Electronics, Communications and Computers (CONIELECOMP). Puebla, Mexico. Feb 27-29, 2012. pp. 118-123.
84. "m3DICOM: A Platform for Mobile DICOM Visualization Based on X3D," I. Ojog, **M. Arias-Estrada**. eTelemed 2012, The Foruth International Conference on eHealth, Telemedicine, and Social Medicine. Valencia, Spain. Jan 30, 2012, pp 40-42. ISBN: 978-1-61208-179-3.
85. "Using a Scaling Factor in  $O(1/N)$  for the Fixed-Point Implementation of the Second-Order Goertzel Filter," Modesto Medina-Melendrez, **Miguel Arias-Estrada**, Albertina Castro. IEEE International Symposium on Circuits and Systems, ISCAS 2012. Seoul, Korea. May 20-23, 2012.
86. "Genetic Algorithm for Multidimensional Scaling over Mixed and Incomplete Data", **Pedro Tecuanhuehue-Vera**, **Jesús Ariel Carrasco-Ochoa** and **José Fco. Martínez-Trinidad**, Lecture Notes in Computer Science, Volume 7329, Pattern Recognition, pp. 226-235. June 2012.
87. "Improving Neural-Based Classification of Databases with Overlapped Classes: the Case of Star/Galaxy Segregation." **Gómez-Gil P**, López-Cruz O, Cruz-Martínez AB. Third IEEE Latin American Symposium on Circuit and Systems LASCAS 2012. Playa del Carmen, México. February 2012.
88. "A Motor Imagery BCI Experiment using Wavelet Analysis and Spatial Patterns Feature Extraction", Obed Carrera León, Juan Manuel Ramirez Cortés, Vicente Alarcón-Aquino, Mary Baker, David D'Croze-Baron, **Pilar Gomez-Gil**, 2012 IEEE Workshop on Engineering Applications, Bogotá, Colombia, May 2-4, 2012.
89. "MOGARS: Multi-objective Genetic Algorithm for the discovery of Regulatory Sequences", **Hernández D. José Luis**, **Jesús A. González Bernal**, **Aurelio López-López**, Procs. 22nd International Conference on Electronics, Communications and Computing CONIELECOMP 2012, ISBN 978-1-61284-1324-8, pp. 7-11.

## Memorias Arbitradas Publicadas

90. "Multitarget Flocking for Constrained Environments", **Armando Serrato Barrera, A. López-López, Gustavo Rodríguez Gómez**, Advances on Practical Applications of Agents and Multi-Agent Systems, Advances in Intelligent and Soft Computing, 2012, Volume 155/2012, Springer Berlin/Heidelberg , ISSN: 1867-5662, pp. 181-190.
91. "Demonstration of Multitarget Flocking for Constrained Environments", **Armando Serrato Barrera, A. López-López, Gustavo Rodríguez Gómez**, Advances on Practical Applications of Agents and Multi-Agent Systems, Advances in Intelligent and Soft Computing, 2012, Volume 155/2012, Springer Berlin/Heidelberg , ISSN: 1867-5662, pp. 287-290.
92. Hybrid Feature Selection Method for Biomedical Datasets. **Saúl Solorio-Fernández, José Fco. Martínez-Trinidad, Jesús Ariel Carrasco-Ochoa**, Yan-Qing Zhang, IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology, San Diego CA, USA, pp. 150-155, 9-12 May 2012. Robust (Article). pp. 6-10.
93. A New Document Author Representation for Authorship Attribution, **Adrián Pastor López-Monroy, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda, Jesús Ariel Carrasco-Ochoa and José Fco. Martínez-Trinidad**, Lecture Notes in Computer Science, Volume 7329, Pattern Recognition, pp. 283-292, June 2012.
94. "Multirobot Terrain Coverage and Task Allocation for Autonomous Detection of Landmines". P. Dasgupta, **A. Muñoz-Meléndez**, K.R. Guruprasad (2012) 23-27 April 2012 Defense Security+Sensing, Baltimore, Maryland, USA. ISBN: 9780819490377. Sensors, and Command, Control, Communications, and Intelligence (C3I) Technologies for Homeland Security and Homeland Defense XI (Proceedings Volume). Proceedings of SPIE Volume: 8359. 14p.
95. "Optimization of the Location of Distribution Centers in the Supply Chain using Genetic Algorithms", Héctor Domínguez Martínez, **Carlos Alberto Reyes García** and **Alejandro Rosales**, in Recent Researches in Automatic Control and Electronics, proceedings of 14th International Conference on Automatic Control Modelling and Simulation (ACMOS 12), Saint Malo, France, April 2012, pp 98-104, ISBN 978-1-61804-080-0.
96. "On the implementation of a method for automatic detection of infant cry units", Maía Antonia Rúiz, **Carlos Alberto Reyes**, Luis Carlos Altamirano, in proceedings of the International Meeting of Electrical Engineering Research (ENIINVIE 2012), Edited by Leonardo Acho Zuppa, David H. Covarrubias R., Miguel V. Andres, Geminiano D. Martínez Ponce, Oscar Montiel, Luis C. García Santander, Manuel Reta Hernández and Reynaldo Felix Acuña, electronic publication (<http://www.sciencedirect.com/science/journal/18777058/35>) by Procedia

## Memorias Arbitradas Publicadas

Engineering, Copyright © 2012 Elsevier Ltd, Pp 217-222, Ensenada, BC, Mexico, 2012, ISSN: 1877-705

97. “Toward a Silent Speech Interface Based on Unspoken Speech”, **Torres García Alejandro Antonio, Reyes García Carlos Alberto and Villaseñor Pineda Luis**, in proceedings of the International Conference on Bio-inspired Systems and Signal Processing (BioSignals 2012), edited by Savine Van Huffel, Carlos Correia, Ana Fred and Hugo Gamboa, pp 370-373, Portugal, February 2012, ISBN 978-989-8425-89-8.