



Memorias Arbitradas

Astrofísica

- **Memorias en extenso de congresos internacionales y nacionales con arbitraje**
 1. **Bertone, E., Chávez, M.**, "Statistical properties of the GALEX spectroscopic stellar sample", Ap&SS, en prensa.
 2. **Cardona, O.**, Simonneau, E., "The IIM Stabilized with a Cubic Spline Model for the Source Function", RMxAA (SC), en prensa.
 3. **Cardona, O.**, "Atomic Line Broadening by Thermal Fluctuations in Stellar Atmospheres and Plasma Diagnostics", RMxAA (SC), en prensa.
 4. **Chávez, M., Bertone, E.**: "Open issues on the synthesis of evolved stellar populations at UV wavelengths", Ap&SS, en prensa.
 5. **Dalle Mese, G. (est.), López-Cruz, O.**, Schuster, W., Chavarria-K, C, García, J. G., "The Physical Basis of the spectral Classification of A, F and G Stars", XIII Latin American Regional IAU Meeting (LARIM-2010) (Eds. W. Henney & S. Torres-Peimbert, RMxAA (SC), 40, en prensa.
 6. **Hernández-López, I. (est.), Athanassoula, E., Mújica, R., Recillas, E.**, "Properties of Bars in Spiral Galaxies from COSMOS", XIII Latin American Regional IAU Meeting (LARIM-2010), Morelia, Michoacán, RevMexAA (SC), 40, en prensa.
 7. **Ibarra-Medel, H. J. (est.), López-Cruz, O.**, "The Universality of the Fundamental Plane for Galaxies and Galaxy Systems M/L", XIII Latin American Regional IAU Meeting (LARIM-2010) (Eds. W. Henney & S. Torres-Peimbert, RMxAA (SC), 40, en prensa.
 8. **Mayya, Y. D., Rosa-Gonzalez, D., Santiago-Cortes, M. (est.)**, "GTC long-slit spectroscopy of compact stellar clusters in M81", Proceedings of the XIII Latin American Regional IAU Meeting, RevMexAA (SC), 2011, en prensa.
 9. Mason, R., López Rodríguez, E., Packham, C., Radomski, J., Levenson, N., **Aretxaga, I.**, Alonso Herrero, A., Colina, L., Elitzur, M., Roche, P., "The Small-Scale Mid-Infrared Emission of Low-Luminosity AGN", The Galactic Center: a Window to the Nuclear Environment of Disk Galaxies. Proceedings of a workshop held at Shanghai, China on October 19-23,

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2009. Edited by Mark R. Morris, Q. Daniel Wang, and Feng Yuan. San Francisco: Astronomical Society of the Pacific, 2011, p.487-439, 5/2011

10. Palous, J., Dale, J., Wunsch, R., **Silich, S., Tenorio-Tagle, G.**, Whitworth, A., "Action of Winds Inside and Outside of Star Clusters", Proceedings IAU Symposium 270, Cambridge University Press, Vol. 270, pp. 267-274, 2011
11. **Torrealba, J.**, Arshakian, T. G., **Chavushyan, V.**, Cruz-Gonzalez, I. "Correlations between radio emission of the parsec-scale jet and optical nuclear emission of host AGN", XIII Latin American Regional IAU Meeting" Morelia, noviembre 2010, Revista Mexicana de Astronomía y Astrofísica (Serie de Conferencias) eprint arXiv:1104.2092, 04/2011
12. **Cardona, O.**, Flores A., Rodríguez-Merino L.H., "Physical Conditions for the Formation of the Hydrogen Lines in Stellar Atmospheres", en Memoria de los 60 años de la Facultad de Ciencias Físico-Matemáticas, BUAP,

Óptica

13. A. E. Villanueva-Luna, **J. Castro-Ramos, S. Vázquez-Montiel**, A. Flores-Gil, J. A. Delgado-Atencio, A. Vázquez-Villa. "Raman spectra and optical coherent tomography images of skin". SPIE Photonics West 2011, Photonic Therapeutics and Diagnostics VII, Proceedings of the SPIE 7883, edited by Kollias, Nikiforos Choi, Bernard Zeng, Haishan Kang, Hyun Wook; Knudsen, Bodo E. Wong, Brian J. Ilgner, Justus F. R. Gregory, Kenton W. Tearney, Guillermo J. Marcu, Laura Hirschberg, Henry Madsen, Steen J. Mandelis, Andreas Mahadevan-Jansen, Anita Jansen, E. Duco celebrado en San Francisco, CA: del 22 al 27 de enero de 2011. 788310-788310-9.
14. A. E. Villanueva-Luna, **J. Castro-Ramos**, S. Vázquez-Montiel, A. Flores-Gil, J.A Delgado-Atencio, C. M. Ortiz Lima. "Mapping skin using Raman spectroscopy". SPIE Photonics West 2011, Optical Diagnostics and Sensing XI: Toward Point-of-Care Diagnostics; and Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement of Tissue III, Proceedings of the SPIE Vol. 7906, edited by Robert J. Nordstrom, Gerard L. Coté celebrado en San Francisco, CA. del 22 al 27 de enero de 2011. 790610-790610-7.
15. A. E. Villanueva-Luna, A. Santiago-Alvarado, **J. Castro-Ramos**, B. Licona-Moran, S. Vázquez-Montiel, A. Flores-Gil, J. A. Delgado-Atencio. "Fabrication and characterization of phantoms made of

Memorias Arbitradas

- polydimethylsiloxane (PDMS)". SPIE Photonics West 2011, Optical Diagnostics and Sensing XI: Toward Point-of-Care Diagnostics; and Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement of Tissue III, Proceedings of the SPIE Vol. 7906, edited by Nordstrom, Robert J.; Coté, Gerard L. celebrado en San Francisco, CA. del 22 al 27 de enero de 2011. 79060I-79060I-7.
16. J. Santos-Aguilar, M. Santiago-Bernal, **C. Gutiérrez-Martínez**. "Filtering the spectrum of multi-longitudinal lasers by using optical retarders". IEEE Instrumentation and measurement Technology Conference celebrado en China del 10 al 12 de mayo de 2011.
 17. **C. Gutiérrez-Martínez**, A. Morales-Díaz, J. A. Torres-Fórtiz. "Thermal characterization of a microwave generator and its effects on the frequency stability". IEEE Instrumentation and measurement Technology Conference celebrado en China del 10 al 12 de mayo de 2011.
 18. J. Santos-Aguilar, **C. Gutiérrez-Martínez**, R. Ochoa-Valiente, M. Santiago-Bernal. "Video-Bandwidth electric field sensing using coherence modulation of light". IEEE Instrumentation and measurement Technology Conference celebrado en China del 10 al 12 de mayo de 2011.
 19. **F. S. Granados-Agustín**, A. García-Arellano, D. Aguirre-Aguirre. M. Campos-García, **A. Cornejo-Rodríguez**. "Ronchigram analysis based on effective wavelength techniques and wavefront slope". Optical Metrology Conference Proceedings of SPIE Vol. 8083 celebrado en Munich, Alemania del 22 al 29 de mayo de 2011. 80830R.
 20. **F. S. Granados-Agustin**, M. E. Percino-Zacarias, J. F. Escobar-Romero, A. Santiago-Alvarado. "Ronchi test for refractive optics off-axis using a nodal bench". Optical Metrology Conference Proceedings of SPIE Vol. 8083 celebrado en Munich, Alemania del 22 al 29 de mayo de 2011. 80830S.
 21. **N. Korneev-Zabello**, P. Rodríguez-Montero, R. Ramos-García, J. C. Ramírez-San Juan, J. P. Padilla-Martínez. "Ultrasound induced by CW laser cavitation bubbles". Journal of Physics:Conference series **278**, (2011), 2nd. International Symposium on Laser Ultrasonics Science, Technology and Applications del 5 al 8 de mayo de 2011. 012029, 1-4.
 22. **N. Korneev-Zabello**, P. Rodríguez-Montero. "Rubidium vapour based adaptive interferometer for laser ultrasound detection". Journal of Physics:Conference series **278**(2011) 012040, 2nd. International

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Symposium on Laser Ultrasonics Science, Technology and Applications del 15 al 18 de mayo de 2011.

23. **E. A. Kuzin**, O. Pottiez, B. Ibarra-Escamilla. "The use of the nonlinear optical loop mirror for investigations of pulse breakup in optical fibers". Nonlinear Frequency Generation and Conversion: Material, Devices, and Applications X, Proc. of SPIE Photonics West 2011 Vol. 7917 celebrado en San Francisco, CA: del 22 al 27 de enero de 2011. 79170Y.
24. R. I. Alvarez-Tamayo, M. Durán-Sánchez, **E. A. Kuzin**, B. Ibarra-Escamilla, O. Pottiez. "A simple tunable and switchable dual-wavelength fiber laser at room temperature". Fiber Lasers VIII: Technology, Systems, and Applications, Proc. of SPIE Vol. 7914 Photonics West celebrado en San Francisco, CA. del 22 al 27 de enero de 2011. 791426.
25. R. C. Fontanilla-Urdaneta, **A Olivares-Pérez**, I Fuentes-Tapia, M. A. Ríos-Velasco. "Environmental conditions influence for real-time hologram formation on dichromated polyvinyl alcohol $\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$ doped films". XVII Reunión Iberoamericana de Óptica & X Encuentro de Óptica, Láseres y Aplicaciones IOP Publishing Journal of Physics: Conference Series **274** 012037 doi:10.1088/1742-6596/274/1/012037 celebrado en Lima, Perú del 20 al 24 de septiembre de 2010. 012037, 1-4 (2011). **Publicadas en 2011.**
26. N. Y. Mejias-Brizuela, **A. Olivares-Pérez**, A. Grande-Grande. "Holograms recorded in dichromated with simple sugars". XVII Reunión Iberoamericana de Óptica & X Encuentro de Óptica, Láseres y Aplicaciones IOP Publishing Journal of Physics: Conference Series **274** 012034 doi:10.1088/1742-6596/274/1/012034 celebrado en Lima, Perú del 20 al 24 de septiembre de 2010. 012034, 1-4 (2011). **Publicadas en 2011.**
27. V. Dorantes-García, **A. Olivares-Pérez**, M. J. Ordoñez-Padilla, N. Y. Mejias-Brizuela". "Holograms preparation using commercial fluorescent benzyl". XVII Reunión Iberoamericana de Óptica & X Encuentro de Óptica, Láseres y Aplicaciones IOP Publishing Journal of Physics: Conference Series **274** 012038 doi :10.1088/1742-6596/274/1/012038 celebrado en Lima, Perú del 20 al 24 de septiembre de 2010.012038, 1-4 (2011). **Publicadas en 2011.**
28. **A. Olivares-Pérez**, S. Toxqui-López, I. Fuentes-Tapia, V. Dorantes-García. "Holograms with fluorescent benzyl". SPIE Practical Holography XXV: Materials and Applications Vol. 7957, Hans I. Bjelkhagen, Raymond K. Kostuk, Editors, 76190U celebrado en San Francisco California USA del 22 al 27 de enero de 2011. 795715-1, 795715-6.

Memorias Arbitradas

29. **A. A. Olivares-Pérez**, I. Fuentes-Tapia, R. Velázquez-Xique. "Behavior of MTF parameter from corn honey holographic material at 473nm and 530nm". SPIE Practical Holography XXV: Materials and Applications Vol. 7957, Hans I. Bjelkhagen, Raymond K. Kostuk, Editors, 76190U celebrado en San Francisco California USA del 22 al 27 de enero de 2011. 79570V-1, 79570V-8.
30. M. J. Ordóñez-Padilla, **A. Olivares-Pérez**, R. Vega-Criollo, L. R. Berriel-Valdos, N. Y. Mejias-Brizuela. "Albumins hologramas". SPIE Practical Holography XXV: Materials and Applications Vol. 7957, Hans I. Bjelkhagen, Raymond K. Kostuk, Editors, 76190U celebrado en San Francisco California USA del 22 al 27 de enero de 2011. 79570W-1, 7957=W-5.
31. J. P. Padilla-Martínez, **J. C. Ramírez-San Juan**, R. Ramos-García, F. Sun, G. Aguilar. "Thermocavitation as a tool for stratum corneum permeation". ILASS Americas, 23rd Annual Conference on Liquid Atomization and Spray Systems celebrado en Ventura, CA, USA, del 15 al 18 de Mayo 2011.
32. J. P. Padilla-Martínez, G. Aguilar, **J. C. Ramírez-San Juan**, R. Ramos-García. "Generation of micron-sized holes on metallic and transparent thin films using thermocavitation". ILASS Americas, 23rd Annual Conference on Liquid Atomization and Spray Systems celebrado en Ventura, CA, USA, del 15 al 18 de Mayo de 2011.
33. C. Wang, S. Trivedi, S. Kutcher, **P. Rodríguez-Montero**, F. Jin, V. Swaminathan, S. Nagaraj, S. Quoraishee, N. S. Prasad. "Non-contact human cardiac activity monitoring using a high sensitivity pulsed laser vibrometer". Technical Digest of the 2011 Conference on Lasers and Electrooptics celebrado en Baltimore, E. U. del 1 al 6 de mayo de 2011.
34. B. Morales-Cruzado, **S. Vázquez-Montiel**, J. A. Delgado Atencio. "Behavior of optical properties of coagulated blood sample at 633 nm wavelength". Optical Interactions with Tissue and Cells XXII, edited by E. Duco Jansen, Robert J. Thomas, Proceedings of the SPIE 7897 del al en <http://spie.org/app/sitesearch/index.cfm?searchtext=Morales§ion=publications> 78970S-78970S-11.
35. **A. Shcherbakov**, J. Maximov, A. Luna Castellanos, D. Sánchez-Lucero, K. J. Sánchez-Pérez. "Characterizing the performances of an advanced acousto-optical filter exploiting the collinear calcium molybdate crystalline

Memorias Arbitradas

- cell". Proceedings of SPIE Photonics West Conference, Vol. 7917 del 22 al 27 de enero de 2011. 7917-15-1–7917-15-12.
36. **A. Shcherbakov**, D. Sánchez-Lucero, A. Luna-Castellanos. "Global characterization of an advanced prototype of a multi-channel acousto-optical spectrometer for the Mexican Large Millimeter Telescope". Proceedings of SPIE Photonics West Conference, Vol. 7934 del 22 al 27 de enero de 2011. 7934-17-1–7934-17-12.
37. **A. Shcherbakov**, D. Sánchez-Lucero, A. Luna-Castellanos, J. Maximov. "Characterizing the polarization features of a multi-prism fused-silica beam expander for a wide-aperture acousto-optic applications". **PROCEEDINGS OF SPIE PHOTONICS WEST CONFERENCE, VOL. 7934 DEL 22 AL 27 DE ENERO DE 2011.** 7934-1H-1–7934-1H-11.
38. **A. Shcherbakov**, J. Campos-Acosta, P. Moreno-Zárate, A. Pons-Aglio. "Qualitative analysis of ultra-short optical dissipative solitary pulses in the actively mode-locked semiconductor heterolaser with an external fiber cavity". Proceedings of SPIE Photonics West Conference, Vol. 7933 del 22 al 27 de enero de 2011. 7933-24-1–793374-24-10.
39. **A. Shcherbakov**, S. Mansurova, P. Moreno-Zárate, J. Campos-Acosta, S. A. Nemov. "Performing the triple auto-correlations of picosecond optical pulse trains with an photo electromotive force detector" Proceedings of SPIE Photonics West Conference, Vol. 7917 del 22 al 27 de enero de 2011. 7917-OS-1–7917-OS-12.
40. **C. G. Treviño-Palacios**, O. Zapata-Nava, M. D. Iturbe-Castillo. "Hybrid Titanium-Sapphire: Dye Laser". RIAO/OPTILAS 2010 celebrado en Lima, Perú del 20 al 24 de septiembre de 2010. *J. Phys.: Conf. Ser.* **274 XVII RIAO y X OPTILAS.** 012075. **Publicadas en 2011.**
41. **Á. S. Cruz-Félix**, E. López-Olazagasti, **D. Sánchez-de-la Llave**, G. Ramírez-Zavaleta, E. Tepichín-Rodríguez. "Función de aberración del frente de onda de lentes de contacto las cuales han sido sometidas a diferentes técnicas de ablación". VIII Encuentro Participación de la mujer en la Ciencia ISBN 978-607-95228-2-7; **SESIÓN 2** celebrado en León, Gto. del 18 al 20 de mayo de 2011. S2-FMCT12.
42. E. López-Olazagasti, C. E. Hernández-y del Callejo, J. Ibarra-Galitzia, **E. Tepichín-Rodríguez**. "Diagnóstico topográfico ORBSCAN II de queratocono en familiares de pacientes con queratocono avanzado que

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requirieron transplante de cornea”. VIII Encuentro Participación de la mujer en la Ciencia ISBN 978-607-95228-2-7, sesión 5 celebrado en León, Gto. del 18 al 20 de mayo de 2011. S5-MCS05.

Electrónica

43. F. Quiñones¹, D. Diaz, A. Torres, J. Molina, J. Hidalgo, C. Zuñiga, P. Rosales, C. Reyes, L. Hernández, M. Linares, M. Moreno, M. Escobar, N. Carlos, I. Juárez, P. Alarcón y **W. Calleja**, Iberchip 2011, Págs 1-4, Bogotá, Colombia, febrero 2011 “Estudio de Esfuerzos Mecánicos Residuales sobre monitores integrados en el chip PolyMEMS V-INAOE”.
44. Hector Villacorta, **Victor Champac**, Sebastian Bota, Jaime Segura, “Resistive Bridge Defect Detectability Considering Process Variation and Technology Scaling”, IEEE Latin American Test Workshop, Abril 2011.
45. Jesus Moreno, **Victor Champac**, Michel Renovell, “A New Methodology for Realistic Open Defect Detection Probability Evaluation under Process Variations”, IEEE VLSI Test Symposium, pp. 184-189, Mayo 2011.
46. C. Martins, J. Semiao, J. Vazquez, **V. H. Champac**, M. Santos, I. C. Teixeira, J.P. Teixeira, “Adaptive Error-Prediction Flip-flop for Performance Failure Prediction with Aging Sensors”, en IEEE VLSI Test Symposium, pp. 203-208, Mayo 2011.
47. J.A. Martínez-Ñonthe, **A. Díaz-Mendez**, M. Cruz-Irisson, L. Palacios-Luengas, J.L. Del-Río-Correa and R. Vázquez-Medina, “Cryptosystem with One Dimensional Chaotic Maps”, Lecture Notes in Computer Science, Vol. 6694, 4th International Conference on Computational Intelligence in Security for Information Systems, CISIS 2011, held in Torremolinos-Málaga, in June 2011, ISBN 978-3-642-21322-9, pp. 191-198.
48. I. Bautista Castillo, **A. Díaz Sánchez**, J. M. Rocha Perez, J. E. Molinar Solis. “Diseño de un circuito CMOS para la Generación de una Wavelet Morlet” Memorias del XVII Workshop Iberchip, Febrero del 2011, Bogotá, Colombia.
49. L. A. Sánchez Gaspariano, C. I. Martínez Gómez, **A. Díaz Sánchez**, M. T. Sanz Pascual, “Filtro Polifásico Programable para Cancelación de Harmónicos en Circuitos No-Lineales,” Memorias del XVII Workshop Iberchip, Febrero del 2011, Bogotá Colombia.

Memorias Arbitradas

50. J.C. Matheus, **A. Diaz-Sánchez**, “Lazos de Realimentación en el Espejo de Corriente con el Flipped Voltage Follower Current Sensor”, Memorias del XVII Workshop Iberchip, Febrero del 2011, Bogotá Colombia.
51. **P.Halevi**, J.A.Reyes-Avenidaño, and F.Pérez-Rodríguez. “Mean-field theory of photonic crystals leading to the bi-anisotropic response” The 5th International Conference on Surface Plasmon Photonics.
52. I. Cosme, **A. Kosarev**, C. Zuñiga “Electronic Properties of $\text{Ge}_y\text{Si}_{1-y}:\text{H}$ Films Deposited by LF PECVD at Low Temperatures”. Mat.Res. Soc. Symp. Proc. Spring Meeting , San Francisco, USA, April 2011.
53. Francisco Avila, **Andrey Kosarev**, Mario Moreno, Pere Roca i Cabarrocas “Comparison of Electronic Characteristics of PIN Photovoltaic Structures Made of Polymorphous and Microcrystalline Silicon Deposited by Plasma”, Mat.Res. Soc. Symp. Proc. Spring Meeting , San Francisco, USA, April 2011.
54. C. Mata, M. Escobar, C. Zúñiga, J. Hidalga, **M. Linares**, P. Rosales, A. Torres, C. Reyes, J. Molina, L. Niño de Rivera, E. Paredes, A. M. Raya-Rivera, I. Juárez, N. Carlos, P. Alarcón, L. Hernández, y W. Calleja. V “Fabrication of planar microelectrodes based on bulk silicon micromachining”. Congreso Latino Americano de Ingeniería Biomédica. Pp. La Habana, Cuba, Mayo 2011
55. **J. Molina**, A. Muñoz, A. Torres, M. Landa, P. Alarcon and M. Escobar, “High-Quality SOG-Based Oxide as a Matrix for Embedding HfO_2 nanoparticles for MOS Devices”, 2011 International Workshop on Dielectric Thin Films for Future Electron Devices: Science and Technology, IWDTF-2011. January 20-21, 2011, Tokyo Institute of Technology, Tokyo, Japan. (January 2011).
56. **J. Molina**, R. Ortega, A. Torres, M. Landa, P. Alarcon and M. Escobar, “Characterization tools for extraction of gate oxide quality and its correlation to MOS device parameters”, 2010 IEEE International Conference on Electron Devices and Solid-State Circuits, EDSSC-2010. December 15-17, 2010. Hong Kong, China (February 2011).
57. **J. Molina**, A. Torres, G.Espinosa, J.Fernandez, M. Hoque, J. McKenna, W. Chen, R. Souza, T. McNelly and P. Parris, “Integration of ISFET Sensors and Reference Electrodes using a CMOS-Based Fabrication

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- Technology along with MIM Structures for pH Detection”, V Latin American Congress of Biomedical Engineering, VCLAIB-2011. May 16-21, 2011. La Havana, Cuba. (May 2011).
58. M. Dominguez Jimenez, **Pedro Rosales Quintero**, Alfonso Torres Jacome, Joel Molina Reyes, Mario Moreno Moreno, Francisco J. De la Hidalga Wade, Carlos Zuniga Islas and Wilfrido Calleja Arriaga; “Fabrication of Low-temperature a-SiGe:H Thin-film Transistors”, in Materials research society MRS, in San Francisco CA, USA, April 2011.
59. P. J. Escamilla-Ambrosio, X. Liu, N. A. J. Lieven, and **J. M Ramirez-Cortes**, “ANFIS-2D Wavelet Transform Approach to Structural Damage Identification”, 30th Annual Conference of the North American Fuzzy Information Processing Society NAFIPS 2011, El Paso, Texas, USA, March 18-20, 2011.
60. P. J. Escamilla-Ambrosio, X. Liu, N. A. J. Lieven, and **J. M Ramirez-Cortes**, “Wavelet-Fuzzy Logic Approach to Structural Health Monitoring”, 30th Annual Conference of the North American Fuzzy Information Processing Society NAFIPS 2011, El Paso, Texas, USA, March 18-20, 2011.
61. Jorge Martínez-Carballido Jorge Guevara-Escobedo (M), **Juan M. Ramírez-Cortés**, “FPGA design and implementation for vertex extraction of polygonal shapes”, 21st International Conference on Electronics, Communications and Computers, Puebla, Mexico, February 28-March 2th, 2011.
62. C. Sánchez-López, J.M. Muñoz-Pacheco, **E. Tlelo-Cuautle**, V.H. Carbajal-Gómez, R. Trejo-Guerra, “On the trade-off between the number of scrolls and the operating frequency of the chaotic attractors”, IEEE International Symposium on Circuits and Systems (ISCAS), pp. 2950-2953, ISBN: 978-1-4244-9472-9, Rio de Janeiro, Brasil, May 15-18, 2011.
63. A. Sallem, I. Guerra-Gómez, M. Fakhfakh, M. Loulou, **E. Tlelo-Cuautle**, “Simulation-Based Optimization of CClls’ Performances in Weak Inversion”, IEEE International Conference on Electronics, Circuits, and Systems (ICECS), pp. 661-664, ISBN: 978-1-4244-81567-69/10, Athens, Greece, December 12-15, 2010.
64. A. Orduña-Díaz, E. Castillo-Domínguez, **A. Torres-Jacome**, F. J. De la Hidalga-Wade and C.G. Treviño-Palacios; “Design and fabrication of a

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- bidimensional microbolometer array for Terahertz detection characterized at different temperatures.”; XVII Reunión Iberoamericana de Óptica & X Encuentro de Óptica, Láseres y Aplicaciones IOP Publishing Journal of Physics: Conference Series 274 (2011) 012112
65. **R. Torres-Torres**, “Extracting characteristic impedance in low-loss substrates,” *Electronics Letters*, Vol. 47, No. 3, pp. 191–193, Feb. 2011. ISSN: 0013-5194.
66. G. Álvarez-Botero **R. Torres-Torres**, and Roberto Murphy-Arteaga, “Using S-parameter measurements to determine the threshold voltage, gain factor, and mobility degradation factor for microwave bulk-MOSFETs,” *Microelectronics Reliability*, Vol. 51, No. 2, pp. 342–349, Feb. 2011. ISSN: 0026-2714.
67. A. Baylón-Fuentes, P. Hernández-Nava, A. García-Juárez, **I. E. Zaldívar-Huerta**, J. Rodríguez-Asomoza, G. Aguayo-Rodríguez and R. Gómez-Colín, “Modulation of Relaxation Oscillation Frequency of a DFB Laser by Using Direct Detection”, *SPIE Photonics West*, January 22-27 2011, San Francisco, California, USA. *Proceedings of SPIE Volume 7958 79580E-1*
68. P. Hernández-Nava, A. Baylón-Fuentes, **I. E. Zaldívar-Huerta**, J. Rodríguez-Asomoza, A. García-Juárez, G. Aguayo-Rodríguez, J. L. Olvera-Cervantes, “Microwave Hybrid Fiber-Radio System Based on Optical Heterodyne Technique”, *Information Photonics Conference*, Ottawa, Canada, 18-20 May 2011.
69. P. Hernández-Nava, A. Baylón-Fuentes, A. García-Juárez, **I. E. Zaldívar-Huerta**, R. Gómez-Colín, A. Rojas-Hernández, J. Rodríguez-Asomoza and G. Aguayo-Rodríguez, “Optical Heterodyne as an Alternative Technique for Reflected Power Measurement of Antennas”, *Information Photonics Conference*, Ottawa, Canada, 18-20 May 2011.
70. L. H. Francisco, E. L. Johan, H. M. A. Leobardo, **Z. I. Carlos**, S. C. Susana, “Distribución de la Densidad de Corriente e Impedancia de Materiales alternativos en Microelectrodos Mediante el análisis de Elemento Finito”, *IFMBE proceedings* 33, 2011 pag 1 – 4.
71. D. Diaz, F. Quiñones, **C. Zuñiga**, J. Molina, F. J. De La Hidalga, M. Linares, P. Rosales, A. Torres, C. Reyes and W. Calleja, “Fabrication of PolySilicon Microstructures using the PolyMEMS INAOE Technology”, 13th

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World Congress in Mechanism and Machine Science, IFToMM-2011. June 19-25, 2011, Guanajuato, México. (June 2011).

72. Humberto Lobato-Morales, **Alonso Corona-Chávez**, J. Luis Olvera-Cervantes, D.V.B. Murthy, "Multi-pole Microstrip Directional Filters for Multiplexing Applications", 21st International Conference on Electrical Communications and Computers (CONIELECOMP), 2011, Feb. 28 2011-March 2 2011, pp. 344 – 349.
73. Francisco Avila, **Andrey Kosarev**, Ismael Cosme "Sub-gap photoconductivity in $\text{Ge}_x\text{Si}_{1-x}:\text{H}$ films deposited by low frequency plasma at different substrate temperatures" The Electronics, Robotics and Automotive mechanics Conference (CERMA-2011), Cuernavaca 2011.
74. Francisco Avila, **Andrey Kosarev**, Ismael Cosme, Mario Moreno, Pere Roca i Cabarrocas. "Electronic Characteristics of PIN Photovoltaic Structures Made of Polymorphous and Microcrystalline Silicon Deposited by Plasma", The Electronics, Robotics and Automotive mechanics Conference (CERMA-2011), Cuernavaca 2011.
75. Gerardo Rosas-Cholula (D), **Juan Manuel Ramírez-Cortes**, Jorge Escamilla-Ambrosio, Vicente Alarcón-Aquino "On the development of a simple EOG-based mouse with BCI technology applying Empirical Mode Decomposition and DWT", The 15th International Graphonomics Society Conference, IGS 2011, Cancun, Mexico, June 12-15, 2011.
76. Jorge Martínez-Carballido Rubén Alfonso-López (M), **Juan M. Ramírez-Cortés**, "License Plate Digit Recognition using 7x5 Binary Templates at an Outdoor Parking Lot entrance", 21st International Conference on Electronics, Communications and Computers, Puebla, Mexico, February 28-March 2th, 2011.
77. J. C. Galan-Hernandez, V. Alarcon-Aquino, O. Starostenko, and **J. M. Ramirez-Cortes** "Foveated ROI Compression with Hierarchical Trees for Real-Time Video Transmission", 3rd Mexican Conference on Pattern Recognition MCPR 2011, Cancun, Mexico June 29 - July 2, 2011.
78. A. Baylón-Fuentes, P. Hernández-Nava, **I. E. Zaldívar-Huerta**, J. Rodríguez-Asomoza, A. García-Juárez, G. Aguayo-Rodríguez, "Microwave Signal Generation Based on Optical Heterodyne and its Application on Optical Telecommunication System", Proceedings of the 21st International

Memorias Arbitradas

Conference on Electronics, Communications and Computers (CONIELECOMP 2011), pp. 334-338, Cholula, Puebla, México. February 28th –March 2nd 2011.

79. P. Hernández, A. Baylón, **I. E. Zaldívar**, J. Rodríguez, A. García, G. Aguayo, J. L. Olvera, “Coherent Microwave Hybrid Fiber-Radio System Based on Optical Heterodyne Technique”, Proceedings of the I Congreso Internacional de Electrónica Instrumentación y Computación, 22-24 Junio 2011, Minatitlán Veracruz, México.
80. Jorge A. Seseña-Osorio, Alejandro Aragón-Zavala, J. Rodríguez-Asomoza, **Ignacio E. Zaldívar-Huerta**, José Luis Cuevas-Ruíz, “Indoor Propagation Measurements for Radiating Cable in the UHF band 800MHz–2500 MHz”, Proceedings of the 21st International Conference on Electronics, Communications and Computers (CONIELECOMP 2011), pp. 299-303, Cholula, Puebla, México. February 28th –March 2nd 2011.

Ciencias Computacionales

- **Memorias en extenso de congresos internacionales con arbitraje**

81. Roberto Pérez-Andrade, César Torres-Huitzil, **René Cumplido**, **Juan M. Campos**. “On an Hybrid and General Control Scheme for Algorithms Represented as a Polytope”, RAW Workshop 2011, 2011 *IEEE International Parallel & Distributed Processing Symposium*. May 2011. Pp. 325-328. ISBN: 1530-2075/11, DOI 10.1109/IPDPS.2011.163. IEEE Catalog Number: CFP1121B-PRT.
82. M. Morales-Sandoval, **C. Feregrino-Uribe**, **R. Cumplido**, I. Algreto-Badillo. “A Reconfigurable GF(2M) Elliptic Curve Cryptographic Coprocessor”, 2011 *VII Southern Conference on Programmable Logic (SPL)*. IEEE Press. Pp.209-214. ISBN: 978-1-4244-8846-9. April 2011.
83. **Oscar E. Romero A.**, **Jesus A. Gonzalez B.**, Lawrence B. Holder. “Handling of Numeric Ranges with the Subdue System”. *Proceedings of the Twenty-Fourth International Florida Artificial Intelligence Research Society Conference*, May 18-20, 2011, Palm Beach, Florida, USA. pp. 99-100.
84. **Armando Serrato Barrera**, **Aurelio López-López**, **Gustavo Rodríguez Gómez**. “Self-organization of Agents for Collective Movement Based on

Memorias Arbitradas

- Particle Swarm Optimization: A Qualitative Analysis”, *Proc. 21st International Conference on Electronics, Communications and Computers CONIELECOMP 2011*, ISBN 978-1-4244 9557-3, pp. 71-76.
85. **Manuel Alejandro Reyes-Barragán, Manuel Montes-y-Gómez and Luis Villaseñor-Pineda.** “Combining Word and Phonetic-Code Representations for Spoken Document Retrieval”. *12th International Conference Computational Linguistics and Intelligent Text Processing (CICLing 2011)*, Tokyo, Japan, February, 2011. Lecture Notes in Computer Science 6609, Springer 2011. (Core B)
86. Hugo Jair Escalante, Thamar Solorio, **Manuel Montes-y-Gómez.** “Local Histograms of Character n-grams for Authorship Attribution” *The 49th Annual Meeting of the Association for Computational Linguistics (ACL 2011)*. Portland, Oregon, USA, June 19-24, 2011. (Core A+)
87. **Rosales-Pérez, A., Reyes-García, C. A., Gómez-Gil, P.:** In: Martínez-Trinidad, J., Carrasco-Ochoa, J., Ben-Youssef Brants, C., Hancock, E. (eds.), “Genetic fuzzy relational neural network for infant cry classification”. *Pattern Recognition*, Lecture Notes in Computer Science, vol. 6718, June/July 2011, pp. 288-296. Springer Berlin / Heidelberg (2011), doi:10.1007/978-3-642-21587-2_31
88. S.D. Cano-Ortiz, **C.A. Reyes-García**, O.F. Reyes-Galaviz, D.I. Escobedo-Beceiro and J.D. Cano-Otero, “Emergence of a New Alternative on Cry Analysis: The Fuzzy Approach”, in *Proceedings of the V Latin American Congress on Biomedical Engineering CLAIB 2011*, IFMBE CD Proceedings 33, Ed. Springer, www.springerlink.com, No. Paper 35, ISBN 978-3-642-21197-3, 2011. Mayo 2011.
89. **Humberto Perez Espinosa, Carlos A. Reyes Garcia, Luis Villaseñor Pineda,** “Bilingual Acoustic Feature Selection for Emotion Estimation using a 3D Continuous Model”, in *Proceedings of the 1st International Workshop on Emotion Synthesis, Representation, and Analysis in Continuous Space (EmoSPACE 2011)*, IEEE Automatic Face and Gesture Recognition Conference FG2011, Santa Barbara, Calif., USA, March 2011, Catalog number: CFP11074-DVD, ISBN: 978-1-4244-9139-1. pp. 786 – 791.
90. **Ricardo Serrato Barrera, Gustavo Rodríguez Gómez, Aurelio López-López,** “Design Patterns in Multi-Agent System Simulation”, *Proc. 21st International Conference on Electronics, Communications and Computers CONIELECOMP 2011*, ISBN 978-1-4244 9557-3, pp. 60-65.



Memorias Arbitradas

91. **Julio César Pérez Sansalvador, Gustavo Rodríguez Gómez, Saúl Eduardo Pomares**, “Pattern Object-Oriented Architecture for Multirate Integration Methods”, Proceedings XXI CONIELECOMP 2011, *Conference on electronics communications and computers*, UDLA, Puebla, págs. 158-163, ISSN 978-1-4244-9557-3.
92. Pablo Hernandez-Leal, **L. Enrique Sucar, Jesus A. Gonzalez, Eduardo F. Morales** and Pablo H. Ibarquengoytia. “Learning Temporal Bayesian Networks for Power Plant Diagnosis”. Computer Science. *Modern Approaches in Applied Intelligence*. Lecture Notes in Computer Science, 2011, Volume 6703/2011, pp. 39-48, DOI: 10.1007/978-3-642-21822-4_5. Syracuse, NY, USA, June 28 – July 1, 2011, Proceedings, Part I.
93. **Pablo Hernandez-Leal, L. Enrique Sucar, Jesus A. Gonzalez**. “Learning Temporal Nodes Bayesian Networks”. *Proceedings of the Twenty-Fourth International Florida Artificial Intelligence Research Society Conference*, May 18-20, 2011, Palm Beach, Florida, USA. pp. 608-613.
94. **Julio H. Zaragoza, L. Enrique F. Sucar, Eduardo Morales**. “A Two-Step Method to Learn Multidimensional Bayesian Network Classifiers Based on Mutual Information Measures”. *Proceedings of the Twenty-Fourth International Florida Artificial Intelligence Research Society Conference*, May 18-20, 2011, Palm Beach, Florida, USA. pp. 644-649.