



Memorias Arbitradas

ASTROFISICA

1. **Aguilar, E. (est.), Aretxaga, I., Hughes, D. H.,** Wilson, G., Scott, K. S., "Identification of high-z galaxies through submillimetre drop-outs", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 110-110 (2011) (<http://www.astroscu.unam.mx/~rmaa/>) 10/2011.
2. Benítez, E., Heidt, J., Hiriart, D., Agudo, I., Cabrera, J. I., Dultzin, D., González, M. M., López, J. M., **Mújica, R.**, Nilsson, K., Sacahui, R., Sorcia, M., "Long-Term Optical Photopolarimetric Monitoring of Blazars at San Pedro Mártir", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (Serie de Conferencias) Vol. 40, pp. 44-45 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
3. **Bertone, E., Chávez, M.**, "Statistical properties of the GALEX spectroscopic stellar sample", Astrophysics & Space Science, vol. 335, number 1, 69-76, 2/2011.
4. **Cardona, O.**, "Atomic Line Widths by Thermal Energy Fluctuations in Stellar Atmospheres", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 227-228 (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
5. **Cardona, O.**, Simonneau, E., "The IIM Stabilized with a Cubic Spline Model for the Source Function", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 268-268 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
6. **Carrasco, E.**, Sánchez-Blanco, E., García Vargas, M.L., Gil de Paz, A., Gallego, J., Páez, G., Zamorano J. & Castro J., "Optical design for MEGARA: a multi-object spectrograph for the GTC" 22nd Congress of the International Commission for Optics: Light for the Development of the World 15-19 August 2011 Puebla, Mexico Proceedings SPIE 8011 80112D-10.



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7. **Chávez, M., Bertone, E.**: "Open issues on the synthesis of evolved stellar populations at UV wavelengths", *Astrophysics & Space Science*, Vol. 335, number 1, 193-199, 2/2011.
8. **Chávez, M.,** Tapia-Schiavon, C., **Bertone, E., Hernández-Águila (est.), J. B., Valdés, J. R., Chavushyan, V.,** "Line-Depth Indices and Atmospheric Parameters of Solar-like Stars in M67", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) *Revista Mexicana de Astronomía y Astrofísica (SC)* Vol. 40, pp. 114-114 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
9. **Chávez, R. (est.), Terlevich, R., Terlevich, E.,** Bresolin, F., Melnick, J., **Pliionis, M.,** Basilakos, S., "Constraining the Dark Energy Equation of State Using Alternative Cosmic Tracers", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) *Revista Mexicana de Astronomía y Astrofísica (Serie de Conferencias)* Vol. 40, pp. 9-10 (2011) (<http://www.astroscu.unam.mx/~rmaa/>) 10/2011.
10. **Dalle Mese, G. (est.), López-Cruz, O.,** Schuster, W., García, G., "The Physical Basis of the Spectral Classification of A, F and G Stars", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) *Revista Mexicana de Astronomía y Astrofísica (SC)* Vol. 40, pp. 271-271 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
11. **Delgado-Inglada, G. (est.), Rodríguez, M.,** García-Rojas, J., Peña, M., Ruiz, M. T., "Iron Depletion in Ionized Nebulae of the Large Magellanic Cloud", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) *Revista Mexicana de Astronomía y Astrofísica (SC)* Vol. 40, pp. 165-166 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
12. **Delgado-Inglada, G. (est.), Rodríguez, M.,** "C/O Abundance Ratios and Dust Features in Galactic Planetary Nebulae", IAU Symposium 283, arXiv:1109.1867-, 9/2011.
13. **Díaz-Hernández, R.,** González, J., Costero, R., **Guichard, J.,** "Retrieval of spectroscopic information from the Tonantzintla Schmidt camera archival plates", 22nd Congress of the International Commission for Optics: Light for the Development of the World. Edited by Rodríguez-Vera, Ramón; Díaz-Uribe, Rufino. *Proceedings of the SPIE*, Volume 8011, pp. 80117Z-80117Z-7 (2011).

Memorias Arbitradas

14. **Hernández-López, I. (est.), Recillas, E., Mújica-García, R.**, Athanassoula, E., "Properties of bars in spiral galaxies from COSMOS", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney. & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 121-121 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
15. **Hernández-Martínez, L.**, Carigi, L., Peña, M., Peimbert, M., "PNe as observational constraints in chemical evolution models for NGC 6822", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (Serie de Conferencias) Vol. 40, pp. 171-172 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
16. **Herrera, G. (est.)**, Gómez, I., **Luna, A.**, "Electro-mechanical bench for an optical beam shaper base don Glass prisms" 2nd International Congress on Instrumentation and Applied Sciences, October 5-8 2011.
17. **Herrera-Martínez, G. (est.)**, **Luna, A.**, **Carrasco, L.**, **Shcherbakov, A.**, "Testing the Bragg cell of an acousto-optical spectrometer for radio astronomy", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 305-305 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
18. **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 (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 64-65 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
19. Juárez, Y., Maiolino, R., **Mújica, R.**, Cruz-González, I., "MIR and hard X-ray luminosities, silicate features, and SFR in AGN", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (Serie de Conferencias) Vol. 40, pp. 124-124 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011. (*Nota: por error de edición, R. Mújica aparece con una adscripción diferente, sin embargo el INAOE aparece entre las instituciones firmantes*)
20. **Luna, A.**, **Mayya, Y. D.**, **Carrasco, L.**, Bronfman, L., "The molecular interstellar medium associated with the young compact stellar cluster Westerlund 1", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y



Memorias Arbitradas

Astrofísica (SC) Vol. 40, pp. 173-174 (2011)
(<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.

21. Masetti, N., Parisi, P., Jimenez-Bailon, E., Bassani, L., Bazzano, A., Bird, A. J., **Chavushyan, V.**, Dean, A. J., Galaz, G., Landi, R., Malizia, A., Minniti, D., Morelli, L., Palazzi, E., Schiavone, F., Stephen, J. B., Ubertini, P., "The nature of 19 X-ray sources detected with INTEGRAL", In The Extreme and Variable High Energy Sky, September 19-23, Chia Laguna, Proceedings of Science, SISSA, en prensa arXiv:1112.0318-, 12/2011.
22. 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, 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.
23. **Mayya, Y. D., Rosa-González, D., Santiago-Cortés, M (est.)**, "GTC long-slit spectroscopy of compact stellar clusters in M81", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 76-77 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
24. **Montaña, A. A. (est.), Sanchez-Argüelles, D. O. (est.), Hughes, D. H., Wilson, G. W., Gaztañaga, E.**, "The angular power spectrum of dust-obscured galaxies and its impact on Sunyaev Zel'dovich studies", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 19-20 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
25. 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.
26. Parisi, P., Masetti, N., Jiménez-Bailón, E., **Chavushyan, V.**, Landi, R., Malizia, A., Palazzi, E., Bassani, L., Bazzano, A., Bird, A. J., Galaz, G., Minniti, D., Morelli, L., Schiavone, M., Ubertini, P., "Accurate classification of 28 objects detected in the 39 months Palermo Swift/BAT hard X-ray catalogue", Proceedings of Science, SISSA, in press, arXiv:1112.4992-, 12/2011.



Memorias Arbitradas

27. Reta, C., Altamirano, L., González, J.A., **Díaz R., Guichard, J.S.**, "Leukosytes Segmentation Using Markov Random Fields", H.R. Arabia and Q.-N. Tran (Eds.) , Software Tools and Algorithms for Biological Systems, Advances in Experimental Medicine and Biology 696, Springer Science+Business Media, LLC 2011, p. 345-353 (chapter 35).
28. **Retes, R. (est.), Luna, A., Mayya, D., Carrasco, L.**, "Characterizing the embedded young stellar objects in the galactic star-forming region IRAS 18236-1205", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 249-250 (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
29. Reyes-Pérez, J., Pérez-Guillén, M., Peña, M., **Hernández-Martínez, L.**, "Planetary Nebulae in NGC 300: The PNLF", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 200-200 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
30. Rodríguez, G.A., Gonzalez, J.A., Altamirano, L., **Guichard J.S., Díaz R.**, "Microcalcificatios Detection Using Fisher's Linear Discriminant and Breast Density", H.R. Arabia and Q.-N. Tran (Eds.), Software Tools and Algorithms for Biological Systems, Advances in Experimental Medicine and Biology 696, Springer Science+Business Media, LLC 2011, p.451-459 (chapter 45).
31. **Rodríguez, M., Delgado-Inglada (est.), G.**, "An Overabundance of Oxygen in Planetary Nebulae of the Solar Neighborhood", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 179-180 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
32. **Rodríguez, M., Delgado-Inglada, G. (est.)**, "Chlorine and Sulfur in Nearby Planetary Nebulae and H II Regions", IAU Symposium 283, "Planetary Nebulae", arXiv:1109.1861-, 9/2011.
33. Sánchez-Blanco, E., García-Vargasa, M.L., Maldonado, M., Gallegos, J., Gil-de-Paz, A., **Carrasco, E.**, Pérez, A., Martínez-Delgado, I. & Zamorano, J., "Sliced-pupil grating: a novel concept for increasing spectral resolution", 22nd Congress of the International Commission for Optics: Light for the Development of the World, 15-19 August 2011. Puebla, Mexico, Proceedings SPIE 8011 80111I-1.



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34. **Santiago-Cortés, M. (est.), Mayya, Y. D., Rosa-González, D.**, "Structural Parameters of M81 Compact Star Clusters", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 94-95 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
35. Sorcia, M., Benítez, E., Heidt, J., Hiriart, D., Agudo, I., Cabrera, J. I., Dultzin, D., González, M. M., González, I., López, J. M., **Mújica, R.**, Nilsson, K., Sacahui, R., "Polarimetric Monitoring of Blazars at San Pedro Mártir", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 131-131 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
36. **Torrealba, J.**, Arshakian, T. G., **Chavushyan, V.**, Cruz-González, I., "Correlations between radio emission of the parsec-scale jet and optical nuclear emission of host AGN", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 98-99 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
37. **Torres-Campos, A. (est.), Rosa-González, D., Terlevich, E.**, Telles, E., **Terlevich, R.**, Schmitt, H. R., "H α and [OIII] emission line maps of Mrk 1318 and Tol 1358-328. Characterising the star formation in HII galaxies", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 102-103 (2011) (<http://www.astroscu.unam.mx/~rmaa/>), 10/2011.
38. **Zeballos, M. (est.), Hughes, D. H., Aretxaga, I.**, Wilson, G., "Studying the properties of massive galaxies in protoclusters using millimetre-wavelength observations", XIII Latin American Regional IAU Meeting (Eds. W. J. Henney & S. Torres-Peimbert) Revista Mexicana de Astronomía y Astrofísica (SC) Vol. 40, pp. 108-109 (2011) (<http://www.astroscu.unam.mx/~rmaa/>) 10/2011.
39. **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, 2011



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ÓPTICA

40. J. Silva-Barranco, U. Ruíz-Corona, **V. Arrizón-Peña**, M. Arias-Estrada, R. Ramos-García. "Rectified Brownian motion by using optical ratchets". Proceedings of SPIE Vol 8097, article number: 80971W. Optics and Photonics celebrado en San Diego, CA: del 22 al 25 de agosto de 2011. 80971W.
41. D. Aguirre-Olivas, **V. M. Arrizón-Peña**, D. Sánchez-de la Llave. "Improved error-reduction algorithm for designing phase diffractive optical elements". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 ISBN 9780819485854, 20celebrado en Puebla, Pue del 15 al 19 de agosto de 2011.
42. **J. J. Báez-Rojas**, C. López-Alarcón. "Assigning pseudocolor to 3-D data arrays". Optical Engineering, 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011.
43. R. Ortiz-Sosa, **L. R. Berriel-Valdos**, J. F. Aguilar, J. Carranza-Gallardo, I. J. Orlando Guerrero, S. Mejía-Romero. "Optical-digital restoration of out-of-focus color images detected in microscopy". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801184-1-801184-6.
44. Juan C. Aguilar, **L. R. Berriel-Valdos**, J. Felix Aguilar. "Wendland radial basis functions applied as filters on computed tomography". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011.
45. E. de la Rosa-Miranda, E. González-Ramírez, **L. R. Berriel-Valdos**, J. F. Aguilar, G. Miramontes-León. "Phase unwrapping using morphologic processing". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801181-1-801181-8.



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46. S. Mejía-Romero, **L. R. Berriel-Valdos**, J. F. Aguilar, I. J. Orlando, J. E. A. Landgrave. "Discrete Wigner distribution function applied on images of quasi point source objects in coherent illumination". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801183-1-801183-8.
47. I. Kelly-Pérez, N. C. Bruce, **L. R. Berriel-Valdos**. "Modeling image formation on the retina and backscattered light in the human eye with cataracts". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 800136-1-800136-8.
48. I. Kelly-Pérez, N. C. Bruce, **L. R. Berriel-Valdos**. "Effect of cataracts on scattering of light in the eye". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80119B-1-80119B-7.
49. J. Medina-Márquez, **J. Carranza Gallardo**. "The influence of the temperature in the UV-VIS spectrophotometers calibration". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80117F-1-80117F-7.
50. 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.
51. 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

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- 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.
52. 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 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. 790601-790601-7.
53. C. M. Ortiz-Lima, **J. Castro-Ramos**, A. Jaramillo-Núñez, J. G. Aguilar-Soto. "Laser surface etching of transparent materials using an interference-coupling energy". 2º International Congress on Instrumentation and Applied Sciences ISBN: 978-607-02-2298-6 celebrado en Puebla, Pue del 5 al 8 de octubre de 2011.
54. **J. Castro-Ramos**, G. Gordiano-Alvarado, C. M. Ortiz-Lima, M. A. De Jesús-Ortiz, S. Vázquez-Montiel, A. Jaramillo-Núñez. "An electro-opto-mechanical device to make diffractive optical elements". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011.
55. **A. Cornejo-Rodríguez**, S. Vázquez-Montiel, F. S. Granados-Agustín, D. Gale, R. Diamant, R. Espinosa-Perena, J. L. Cruz, M. Fernández-Guasti. "Xochicalco: Tlayohualchieliztli or Camera Obscura". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801190.
56. J. F. Aguilar-Gutiérrez, M. L. Arroyo-Carrasco, A. Cérdero-Dávila, **S. Chávez-Cerda**, M. D. Iturbe Castillo. "Emmulation of exact ray tracing by

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ABCD matrix in a human eye model". *Frontiers in Optics (FiO)/Laser Science (LS)* (Optical Society of America Washington, DC (2011) celebrado en San José, CA. del 16 al 20 de octubre de 2011.

57. J. F. Aguilar-Gutierrez, M. L. Arroyo-Carrasco, **S. Chávez-Cerda**, M. D. Iturbe-Castillo. "ABCD matrix of a medium with a refractive index higher at the border than the core". *Frontiers in Optics (FiO)/Laser Science (LS)* (Optical Society of America Washington, DC (2011) celebrado en San José, CA. del 16 al 20 de octubre de 2011. FThR5.

58. H. Alejandro Jiménez- Romero, **S. Chávez-Cerda**. "Airy beams: the (1+1) D non – diffracting Bessel beams ". *Frontiers in Optics (FiO)/Laser Science (LS)* (Optical Society of America Washington, DC (2011) celebrado en San José, CA. del 16 al 20 de octubre de 2011.

59. **D. Gale**. "Visual alignment of mechanical structures using a Bessel beam datum-practical implementation". Congreso Optical Metrology SPIE 8082-99, Vol. 2 celebrado en Munich, Alemania del 23 al 26 mayo de 2011. 1-12. **(Por publicarse)**.

60. 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.

61. **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.

62. 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.

63. **C. Gutiérrez-Martínez**, J. Santos-Aguilar. "Polarization-insensitive Wide-Band electric field sensor scheme". International Symposium on Microwave and Optical Technology, ISMOT 2011 celebrado en Praga República Checa, E. U. del 20 al 23 de junio de 2011.

64. G. Martínez-Escalante, J. Meza-Pérez, **C. Gutiérrez-Martínez**, A. Carramiñana - Alonso. "A 90 GHz radiometer for sun observations in

Memorias Arbitradas

México". International Symposium on Microwave and Optical Technology, ISMOT 2011 celebrado en Praga República Checa, E. U. del 20 al 23 de junio de 2011.

65. **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.
66. **F. S. Granados-Agustín**, M. E. Percino-Zacarías, J. F. Escobar-Romero, A. Santiago-Alvarado. "Ronchi test for refractive optics off-axis using a nodal bench". SPIE Modeling Aspects in Optical Metrology III, edited by Bernd Bodermann, Proceedings of SPIE Vol. 8083 celebrado (SPIEBellingham, WA 2011) celebrado en Munich, Alemania del 22 al 29 de mayo de 2011. 80830S.
67. D. H. Peñalver-Vidal, **F. S. Granados-Agustín**, D. L. Romero-Antequera. "Wavefront reconstruction and piston measurement using Ronchi test". Optical Fabrication, Testing, and Metrology IV, edited by Angela Duparré, Roland Geyl, Proceedings of SPIE Vol. 8169 (SPIE, Bellingham, WA 2011) celebrado en Marsella, Francia del 5 al 9 de septiembre de 2011. 81690A.
68. D. Aguirre-Aguirre, **F. S. Granados-Agustín**, A. Cornejo-Rodríguez. "Obtaining the wavefront in the Ronchi test using only one Ronchigram with random coefficients of aberration". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801117.
69. A. García-Arellano, **F. S. Granados-Agustín**, A. Cornejo-Rodríguez. "Wavefront determination using the Ronchi test with synthetic wavelength". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80111D.
70. N. Korneev-Zabello, **F. S. Granados-Agustín**, P. Cebrian-Xochihuila, R. Díaz-Urbe, A. Cornejo Rodríguez. "Analysis of interferograms of a lens using a knife edge interferometer". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by



Memorias Arbitradas

Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80111S.

71. A. Salas-Sánchez, I. Leal-Cabrera, E. Percino-Zacarias, **F. S. Granados-Agustín**. "Interferometric analysis of polishing surface with a petal tool". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80111X.
72. J. F. M. Escobar-Romero, M. E. Percino-Zacarias, **F. S. Granados-Agustín**. "Testing of a convergent optics system off-axis using a Ronchi rule on a nodal bench". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801129.
73. **B. Ibarra-Escamilla**, E. A. Kuzin, O. Pottiez, J. W. Haus, Q. Zhan, P. E. Powers. "Tunable high power Er:Yb fiber laser". OSA'11 Frontiers in Optics/Laser Science celebrado en San José, CA, USA del 16 al 20 de octubre de 2011. FWE3.
74. O. Pottiez, **B. Ibarra-Escamilla**, E. A. Kuzin, J. C. Hernández-García. "Study of a figure-eight laser generating noise-like pulses with adjustable characteristics". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801139.
75. O. Pottiez, J. C. Hernández-García, **B. Ibarra-Escamilla**, E. A. Kuzin. "Dual-wavelength operation of a figure-eight fiber laser". 20th International Laser Physics Workshop (LPHYS'11) celebrado en Sarajevo, Bosnia and Herzegovina del 11 al 15 de julio de 2011.
76. **B. Ibarra-Escamilla**, E. A. Kuzin, O. Pottiez, J. W. Haus, Q. Zhan, P. E. Powers, and R. Zhou. "Wavelength tunable double-clad Er:Yb doped high power fiber laser". 20th International Laser Physics Workshop (LPHYS'11) celebrado en Sarajevo, Bosnia and Herzegovina del 11 al 15 de julio de 2011.

Memorias Arbitradas

77. E. V. García-Ramírez, M. L. Arroyo-Carrasco, M. M. Méndez-Otero, **M. D. Iturbe Castillo**, S. Chávez-Cerda. "Refractive nonlinear response in thin nonlocal nonlinear media". *Frontiers in Optics (FiO)/Laser Science (LS)* (Optical Society of America Washington, DC (2011) celebrado en San José, CA. del 16 al 20 de octubre de 2011. JTUA03.
78. I. Severiano-Carrillo, M. M. Méndez-Otero, M. L. Arroyo-Carrasco, **M. D. Iturbe Castillo**. "Z-scan for thick media as a function of the photoinduced focal length". *Frontiers in Optics (FiO)/Laser Science (LS)* (Optical Society of America Washington, DC (2011) celebrado en San José, CA. del 16 al 20 de octubre de 2011. JTUA06.
79. **A. Jaramillo-Núñez**, M. Pérez Meza. "Measuring radii of curvature using a calibrated lateral shearing interferometer". *Proc. SPIE*, 8011, 801109 (2011); doi: 10.1117/12.901547. 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, *Proceedings of SPIE*, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011.
80. M. I. Rodríguez-Rodríguez, **A. Jaramillo-Núñez**, R. Díaz Uribe. "Dynamic point shifting in null screen videokeratometry". *Proc. SPIE*, 8011, 80119H (2011); doi: 10.1117/12.903320. 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, *Proceedings of SPIE*, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011.
81. **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.
82. **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 Symposium on Laser Ultrasonics Science, Technology and Applications del 15 al 18 de mayo de 2011.
83. **N. Korneev-Zabello**. "Nonlinearity enhancement in rubidium vapor with vectorial mechanism". 22nd Congress of the International Commission for Optics: Light for the Development of the World, *Proc. SPIE* 8011, 801137

Memorias Arbitradas

(2011); doi:10.1117/12.901948 celebrado en Puebla, Pue.del 15 al 19 de agosto de 2011.

84. **N. Korneev-Zabello**. “Vectorial mechanism of nonlinearity in rubidium”. PR11: Photorefractive Materials, Effects and devices: Light in Structured Nonlinear Materials , Proceedings celebrado en Ensenada, B. C. México del 13 al 15 de octubre de 2011. T10-4.
85. M. Dúran-Sánchez, R. I. Alvarez-Tamayo, **E. A. Kuzin**, B. Ibarra-Escamilla, O. Pottiez. “Tunable dual-wavelength fiber laser based on adjustment of cavity loss by a fiber optical loop mirror”. 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801157.
86. R. I. Alvarez-Tamayo, M. Dúran-Sánchez, **E. A. Kuzin**, O. Pottiez, B. Ibarra-Escamilla, J. L. Cruz, M. V. Andrés. “Dual-wavelength tunable laser with superimposed fiber Bragg gratings”. 20th International Laser Physics Workshop (LPHYS’11) celebrado en Sarajevo, Bosnia and Herzegovina del 11 al 15 de julio de 2011.
87. **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.
88. 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. 791426-1.
89. K. Alemán-Ayala, **S. Mansurova**, A. Kosarev, P. Rodríguez-Montero, K. Meerholz S. Koeber. “Study of electronic structure and transport properties of polymer-based photo-refractive composite”. Proceedings of the Topical Meeting PR 11, Photorefractive Materials, Effects and Devices celebrado Ensenada, B. C. del 13 al 15 de octubre de 2011.8.
90. **S. Mansurova**, I. Guízar-Iturbide, P. Rodríguez-Montero, L. G. de la Fraga. “Non-steady-state photo-emf effect induced by an arbitrary 1–D periodical light distribution”. Proceedings of the Topical Meeting PR 11,

Memorias Arbitradas

Photorefractive Materials, Effects and Devices celebrado en Ensenada, B. C. del 13 al 15 de octubre de 2011. 50.

91. J. C. Juárez-Morales, **J. Muñoz-López**, G. Martínez-Niconoff. "Study of light propagation in random nanoparticles arrays by the Kondo effect". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011.
92. J. C. Juárez-Morales, **J. Muñoz-López**, G. Martínez-Niconoff. "Generalized surface plasmon modes partially coherent". SPIE Optic+Photonics celebrado en San Diego, CA. del 22 al 26 de agosto de 2011. 140.
93. 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 NiCl₂·6H₂O 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.**
94. 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.**
95. 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.**
96. **A. Olivares-Pérez**, S. Toxqui-López, I. Fuentes-Tapia, V. Dorantes-García. "Holograms with fluorescent benzyl". SPIE Practical Holography XXV: Materials and Applications, Photonics West, Vol. 7957, Hans I. Bjelkhagen, Raymond K. Kostuk, Editors, 76190U celebrado en San

Memorias Arbitradas

Francisco California USA del 22 al 27 de enero de 2011. 795715-1, 795715-6.

97. **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, Photonics West, 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.
98. 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, Photonics West 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.
99. S. Toxqui-López, **A. Olivares-Pérez**, I. Fuentes-Tapia, B. Pinto-Iguanero. "PVA with nopal dye as holographic recording material". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011.
100. M. J. Ordóñez-Padilla, **A. Olivares-Pérez**, L. R. Berriel-Valdos, N. Y. Mejias-Brizuela, I. Fuentes-Tapia, V. Dorantes-García". "Holographic comparative study of glucose pectin and sugar". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011.
101. M. J. Ordóñez-Padilla, **A. Olivares-Pérez**, L. R. Berriel-Valdos, N. Y. Mejias-Brizuela, I. Fuentes-Tapia. "Holograms of fluorescent albumin". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801115
102. R. C. Fontanilla-Urdaneta, **A. Olivares-Pérez**, I. Fuentes-Tapia, M. A. Ríos-Velasco. "Diffraction efficiencies profile by thickness and spatial frequency variation". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino

Memorias Arbitradas

Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011.

103. N. Y. Mejias-Brizuela, **A. Olivares-Pérez**, A. Grande-Grande, M. J. Ordóñez-Padilla. "Parameter evolution diffraction efficiency of gratings with corn syrup". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011.
104. V. Dorantes - García, **A Olivares-Pérez**, M. J. Ordoñez-Padilla, N. Y. Mejias-Brizuela. "Holograms of Albumin with Gentian Violet". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011.
105. **R. Ramos Garcia**. "Hybrid inorganic-liquid crystals devices". 14th International Topical Meeting on Optics of Liquid Crystals. Armenia celebrado en Yerevan, Armendel 25 de septiembre al 1 de octubre de 2011.
106. J. G. Ortega-Mendoza, F. Chávez, P. Zaca-Morán, **R. Ramos-García**, C. Felipe, G. F. Pérez-Sánchez, J. G. Gutiérrez, O. Goiz. "Optically induced Zn/ZnO nanoparticles selective deposition on single-mode fiber optic end". Proceedings of SPIE Vol 8097, article number: 80971W. Optics and Photonics celebrado en San Diego, CA: del 22 al 25 de agosto de 2011.
107. M. Fujimura, I. Olave, **J. C. Ramírez-San Juan**, R. Ramos-García. "Micro-particle trapping in a space-charge field photogenerated on LiNbO₃". Photorefractive Materials, Effects and Devices: Light in Structured Nonlinear Materials celebrado en Ensenada Mexico del 13 al 15 de octubre de 2011. PR 11.
108. 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.
109. 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

Memorias Arbitradas

Liquid Atomization and Spray Systems celebrado en Ventura, CA, USA, del 15 al 18 de Mayo de 2011.

110. J. Torres-Turijan, J. G. Ortega-Mendoza, P. Zaca-Morán, F. Chávez, **J. C. Ramírez-San Juan**, R. Ramos-García, O. J. Zapata-Nava, C. Felipe. "Radiation forces on Au nanoparticles considering infrared beams". 22nd. Congress of the International Commission for Optics, Proc of SPIE Vol. 8011 celebrado en Puebla, México del 15 al 19 de agosto de 2011. 80113R-1.
111. J. P. Padilla-Martínez, G. Aguilar, **J. C. Ramírez-San Juan**, R. Ramos-García. "Temporal evolution of thermocavitation bubbles using high speed video camera". Proc. SPIE Vol 8097, 809727 celebrado en San Diego, CA, USA del 22 al 25 de agosto de 2011. 809727.
112. J. P. Padilla-Martínez, **J. C. Ramírez-San Juan**, R. Ramos-García, F. Sun, G. Aguilar. "Thermocavitation as a tool for stratum corneum permeation". 22nd. Congress of the International Commission for Optics, Proc of SPIE Vol. 8011 celebrado en Puebla, México del 15 al 19 de agosto de 2011. 801130-1-801130-02.
113. A. Garza-Rivera, **F. J. Renero-Carrillo**. "Artificial Apposition Compound Eye using Aspherical Cylindrical Micro-Doubles". 22nd. Congress of the International Commission for Optics, Proc of SPIE Vol. 8011 celebrado en Puebla, México del 15 al 19 de agosto de 2011. 80119M-1.
114. C: 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.
115. **P. Rodríguez-Montero**. "Detección óptica de ultrasonido generado por láser mediante fotodetectores adaptivos". Proceedings of the V Pan American Conference for Non Destructive Testing celebrado en Cancún, Q. R. México del 2 al 6 octubre 2011.
116. **P. Rodríguez-Montero**, S. Mansurova, I. Guízar-Iturbide. "Displacement measurement using an adaptive photodetector and the Talbot effect". Proceedings of the Topical Meeting PR 11, Photorefractive Materials, Effects and Devices celebrado en Ensenada, B. C. de 13 al 15 de octubre de 2011. 36.

Memorias Arbitradas

117. N. Lozano-Crisóstomo, **J. J. Sánchez-Mondragón**, A. Vázquez-Guardado, G. López-Galmiche, M. A. Fuentes-Fuentes, O. S. Magaña-Loaiza, J. Escobedo-Alatorre. "An analytical analysis of the nonlinear modes of the coupled silicon-on-insulator waveguides". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.903154 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801156.
118. M. Tecpoyotl-Torres, J. G. Vera-Dimas, J. Escobedo-Alatorre, **J. J. Sánchez-Mondragón**, M. Torres-Cisneros, R. Cabello-Ruiz, J. Varona. "Generation of irradiance patterns using a semi-spherical meter of two degrees of freedom". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.902161 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80110Y.
119. **83. J. J. Sánchez-Mondragón**, D. E. Ceballos-Herrera, A. Alejo-Molina, D. May-Arrijoa, O. S. Magaña-Loaiza, N. Lozano-Crisostomo. "Plasmon excitation using a dielectric slab with diffusion type photorefractive nonlinearity". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.903383 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80115L.
120. D. E. Ceballos-Herrera, **J. Sánchez-Mondragón**, A. Alejo-Molina, D. May-Arrijoa, C. Milián, A. Ferrando. "Novel properties of soliton-plasmon interactions". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.902141 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80113G.
121. A. Alejo-Molina, **J. J. Sánchez-Mondragón**, J. Escobedo-Alatorre, A. Vázquez-Guardado, V. I. Ruiz-Pérez, D. A. May-Arrijoa. "Omnidirectional reflector in a ternary metallo-dielectric structure". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.902270 celebrado en Puebla, Pue del 15 al

Memorias Arbitradas

19 de agosto de 2011. 801164.

122. A. Alejo-Molina, **J. J. Sánchez-Mondragón**, A. Zamudio-Lara, D. L. Romero-Antequera, M. Torres-Cisneros, D. E. Ceballos-Herrera. "Analytical description of band gaps in a ternary metallo-dielectric stack". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.902977 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801167.
123. E. E. Antúnez-Cerón, M. A. Basurto-Pensado, J. C. García-Castrejón, **J. J. Sánchez-Mondragón**. "Optical characterization of LiBr-H₂O using MMI in optical fiber". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.902203 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80114Z.
124. S. Sergio Sánchez, **J. J. Sánchez Mondragón**, J. C. García Melgarejo, A. Alejo-Molina. "Entanglement of formation of pair of quantum dots". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.903406 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80113Z.
125. V. I. Ruiz-Pérez, M. A. Basurto-Pensado, D. A. May-Arrijoja, M. Tecpoyotl-Torres, P. LikamWa, O. G. Ibarra-Manzano, **J. J. Sánchez-Mondragón**. "Multimode interference effects in optical fiber for pressure sensing applications". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.903388 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80115M.
126. D. L. Romero-Antequera, A. Alejo-Molina, G. López-Galmiche, I. Guizar-Iturbide, D. May-Arrijoja, **J. J. Sánchez-Mondragón**. "Photonic crystal slab with layered elements". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.903265 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80116C.

Memorias Arbitradas

127. M. Tecpoyotl-Torres, J. G. Vera-Dimas, R. Cabello Ruiz, O. García-García, J. Escobedo-Alatorre, **J. J. Sánchez-Mondragón**, M. Torres-Cisneros, J. Varona, R. Vargas-Bernal. "Antenna of adjustable bandwidth based on a pentagonal array". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.901998 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80115X.
128. N. Lozano-Crisostomo, G. P. Agrawal, **J. J. Sánchez-Mondragón**. "Nonlinear pulse propagation inside coupled silicon nanowires". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.903309celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80115H.
129. J. C. García-Melgarejo, **J. J. Sánchez-Mondragón**, S. Sánchez-Sánchez, D. A. May-Arrijoa, M. A. Basurto-Pensado, V. I. Ruiz-Pérez. "Entangled quantum dots interacting with their own micro cavity classical field". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.903307 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80115G.
130. I. Hernández-Romano, J. Dávila-Rodríguez, Mandridis-Dimitrios, **J. J. Sánchez-Mondragón**, J. Delfyett-Peter, D. A. May-Arrijoa. "4 GHz hybrid mode-locked fiber laser using PDMS/SWCNT thin film composite". CLEO: Science and Innovations. Laser Science to Photonic Applications Technical Conference celebrado en Baltimore, Maryland, USA del 1 al 6 de mayo de 2011. CMK4, 2011.
131. J. E. Antonio-López, D. López-Cortes, **J. J. Sánchez-Mondragón**, P. LiKamWa, D. A. May-Arrijoa. "Continuous and discrete multimode interference liquid level sensor". CLEO: Science and Innovations. Laser Science to Photonic Applications Technical Conference celebrado en Baltimore, Maryland, USA del 1 al 6 de mayo de 2011.
132. A. S. Cruz Felix, E. López-Olazagasti, **D. Sánchez-de la Llave**, G. Ramírez-Zavaleta, E. Tepichín-Rodríguez. "Wavefront aberration function from hard contact lenses obtained with two different techniques".

Memorias Arbitradas

Applications of Digital Image Processing XXXIV, SPIE Proceedings Vol. 8135 celebrado en San Diego, CA. del 22 al 25 de septiembre de 2011. 7798IU-1-7798IU-8.

133. **A. Shcherbakov**, D. Sánchez-Lucero, K. J. Sánchez-Pérez, A. Luna-Castellanos. "A two-phonon regime of operating an advanced prototype of a multi-channel acousto-optical spectrometer for the Mexican Large Millimeter Telescope". 13th Photonics North Conference 2011 Proceedings of SPIE, Vol. 8007 celebrado en Ottawa, Canada del 6 al 8 de junio de 2011. 8007-18-1–8007-18-8 (2011).
134. **A. Shcherbakov**, V. Yu. Rakovsky, K. J. Sánchez-Pérez, S. A. Nemov, D. Sánchez-Lucero. "A four-phonon Bragg anomalous light scattering in a tetragonal tellurium dioxide crystal". 13th Photonics North Conference 2011 Proceedings of SPIE, Vol. 8007 celebrado en Ottawa, Canada del 6 al 8 de junio de 2011. 8007-1N-1–8007-1N-9 (2011).
135. **A. Shcherbakov**, P. Moreno-Zárate, K. J. Sánchez-Pérez, D. Sánchez-Lucero. "Shaping triple correlations of low-power optical pulse trains and their experimental modeling via acousto-optic technique". 13th Photonics North Conference 2011 Proceedings of SPIE, Vol. 8007 celebrado en Ottawa, Canada del 6 al 8 de junio de 2011. 8007-1O-1 – 8007-1O-10 (2011).
136. A. Laskin, **A. Shcherbakov**, V. Molchanov, V. Laskin, O. Makarov. "Developing the refractive light beam shapers as lossless apodization systems suppressing the side-lobes in Fourier transform optical systems". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 8011-0L-1–8911-0L-6 (2011).
137. **A. Shcherbakov**, D. Sánchez-Lucero, A. Laskin. "Characterization of the optical sub-system in an advanced prototype of a new acousto-optical spectrometer for the Mexican Large Millimeter Telescope". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 8011-13-1 – 8911-13-10 (2011).
138. **A. Shcherbakov**, K. J. Sánchez-Pérez, D. Sánchez-Lucero, S. A. Nemov. "Amplitude and frequency properties of a four-phonon Bragg

Memorias Arbitradas

- anomalous light scattering in a uniaxial crystal with spatial optical dispersion". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 8011-3N-1–8911-3N-7 (2011).
139. -O. J. Zapata-Nava, **C. G. Treviño-Palacios**. "Dual wavelength titanium: sapphire laser". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011, doi:10.1117/12.901690 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80114C.
140. **G. Urcid-Serrano**. "Relative entropy of grayscale images degraded by bit-plane quantization and random noise". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80116W-1:10.
141. **G. Urcid-Serrano**, G. X. Ritter. "Unsupervised color image segmentation using a lattice algebra clustering technique". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Urbe, Proceedings of SPIE, Vol. 8011 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80117D-1:10.
142. **G. Urcid-Serrano**, G. X. Ritter, J. C. Valdiviezo-Navarro. "Grayscale image recall from imperfect inputs with a two layer dendritic lattice associative memory". 3rd. Congress on Nature and Biologically Inspired Computing Proceedings of IEEE celebrado en Salamanca, España del 19 al 21 de octubre de 2011. 268-273.
143. **G. Urcid-Serrano**, J. A. Nieves-Vázquez. "Lattice masking and auto-association for recalling color images in the presence of noise". 3rd. Congress on Nature and Biologically Inspired Computing Proceedings of IEEE celebrado en Salamanca, España del 19 al 21 de octubre de 2011. 274-279.
144. G. X. Ritter, **G. Urcid-Serrano**. "Perfect recall from noisy input patterns with a dendritic lattice associative memory". International Joint Conference in Neural Networks 2011 Proceedings of IEEE celebrado en San José, California, USA del 31 de Julio al 5 de agosto de 2011. 503-510.

Memorias Arbitradas

145. B. Morales-Cruzado, **S. Vázquez-Montiel**, J. A. Delgado Atencio. "Behavior of optical properties of coagulated blood sample at 633 nm wavelength". Photonics West Optical Interactions with Tissue and Cells XXII, edited by E. Duco Jansen, Robert J. Thomas, Proceedings of the SPIE 7897 celebrado en San Francisco, CA. del 22 al 27 de enero de 2011. <http://spie.org/app/sitesearch/index.cfm?searchtext=Morales§ion=publications> 78970S-78970S-11.
146. A. Vázquez-Villa, J. A. Delgado-Atencio, **S. Vázquez-Montiel**, F. Gutiérrez-Delgado, S. Marcial-Toledo, J. Castro-Ramos, L. Chávez-Mercado. "Comparative study of OCT and microscopy images: a scaling approach". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011, doi: 10.1117/12.903407 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801198.
147. J F M Escobar-Romero, **S Vázquez-Montiel**, F. Granados-Agustín, V. M. Cruz-Martínez, E. Rodríguez-Rivera, L Martínez-Yáñez. "Building a parabolic solar concentrator prototype". XVII Reunión Iberoamericano de Optica y X Encuentro de Optica, Láseres y Aplicaciones Journal of Physics: Conference Series 274 (2011) 012104 doi:10.1088/1742-6596/274/1/012104 celebrado Lima, Perú, Pue. del 6 al 10 de septiembre de 2010. **Publicadas en 2011.**
148. A. E. Martínez-Rodríguez, J. A. Delgado-Atencio, **S. Vázquez-Montiel**, R. A. Romero-Hernández. "Spectra acquisition software for clinical applications of the USB4000 spectrometer". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011, doi: 10.1117/12.903401 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 801197.
149. A. Muñoz-Morales, **S. Vázquez-Montiel**, A. Reigosa. "Relationship between Reflection Spectra of Breast Adipose Tissue with Histological Grade". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.902167 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80118Q.
150. B. Morales Cruzado, S. A. Prah, J. A. Delgado Atencio, **S. Vázquez-Montiel**. "Validation of GA-MCML algorithm against IAD program". 22nd

Memorias Arbitradas

Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.902151 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80118.

151. A. Santiago-Alvarado, J. González-García, F. Itubide-Jiménez, M. Campos-García, E. A. López-López, **S. Vázquez-Montiel**, B. I. G. Licona-Morán. "Opto-mechanical design, analysis and simulation of tunable liquid-filled lenses". 22nd Congress of the International Commission for Optics: Light for the Development of the World, edited by Ramón Rodríguez-Vera, Rufino Díaz-Uribe, Proceedings of SPIE, Vol. 8011 doi: 10.1117/12.903273 celebrado en Puebla, Pue del 15 al 19 de agosto de 2011. 80111Q.
152. C. Arancibia-Estrada, C. A. Arancibia-Bulnes, **S. Vázquez-Montiel**, C. A. Pérez-Rábago, D. Riveros, R. Pérez-Enciso, J. Quiñones, R. Castrejón, M. Montiel, F. S. Granados-Agustín. "A new high-flux solar furnace At CIE-UNAM in Temixco, Mexico. First stage". SolarPACES (2011) Concentrating Solar Power and Energy Systems celebrado en Granada, España del 20 al 23 de septiembre de 2011.
153. **S. Vázquez-Montiel**, C. A. Pérez-Rabago, R. Pérez-Enciso, D. Riveros-Rosas, F. S. Granados-Agustín, C. A. Arancibia-Bulnes, C. A. Estrada. "Method for facets alignment for the high-flux solar furnace at CIE-UNAM in Temixco, Mexico. First stage". SolarPACES (2011) Concentrating Solar Power and Energy Systems celebrado en Granada, España del 20 al 23 de septiembre de 2011.
154. **A. Shcherbakov**, J. Maximov, A. LunaCastellanos, D. Sánchez-Lucero, K. J. Sánchez-Pérez. "Characterizing the performances of an advanced acousto-optical filter exploiting the collinear calcium molybdate crystalline cell". Proceedings of SPIE Photonics West Conference, Vol. 7917 del 22 al 27 de enero de 2011. 7917-15-1–7917-15-12.
155. **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.
156. **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".



Memorias Arbitradas

PROCEEDINGS OF SPIE PHOTONICS WEST CONFERENCE, VOL. 7934 DEL 22 AL 27 DE ENERO DE 2011. 7934-1H-1–7934-1H-11.

157. **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.
158. **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.
159. **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.**
160. **C. G. Treviño-Palacios**, M. A. Celis-López, J. M. Lárraga-Gutiérrez, A. García-Garduño, O. J. Zapata-Nava, A. Díaz-Orduña, A. Torres-Jácome, J. de-La-Hidalga-Wade, M. D. Iturbe-Castillo. “Brain imaging using T-rays instrumentation advances”. Eleventh Mexican Symposium on Medical Physics edited by María-Ester Brandan, Flor Herrera-Martínez, Veronica Ramírez-R and Mercedes Rodríguez-Villafuente, AIP Conference Proceedings **1310** celebrado en México, D. F. del 19 al 22 de marzo de 2010. 146-149. **Publicado diciembre 7, 2010 y llegaron memorias en 2011.**
161. **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.
162. 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 requirieron transplante de cornea”. VIII Encuentro Participación de la mujer en la



Memorias Arbitradas

Ciencia ISBN 978-607-95228-2-7, sesión 5 celebrado en León, Gto. del 18 al 20 de mayo de 2011. S5-MCS05.

ELECTRONICA

163. F. QUIÑONES, D. DIAZ, A. TORRES, J. MOLINA, J. HIDALGA, C. ZUÑIGA, P. ROSALES, C. REYES, L. HERNÁNDEZ, M. LINARES, M. MORENO, M. ESCOBAR, N. CARLOS, I. JUAREZ, 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”.
164. “A New Library for PolyMEMS-INAOE Process”, Fidel Wilivaldo Pérez Tovar, Luis Niño de Rivera Oyarzabal, and **W. Calleja**, 8th IEEE International Conference on Electrical Engineering, Computing Science and Automatic Control, CEE 2011, Mérida, Yuc, México, 1007-1011, 2011.
165. Hector Villacorta, **Victor Champac**, Sebastian Bota, Jaume Segura, “Resistive Bridge Defect Detectability Considering Process Variation and Technology Scaling”, IEEE Latin American Test Workshop, Abril 2011.
166. 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.
167. 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.
168. O. Malik, **F.J. De la Hidalga-W**, Impact of the Hydrogen-Peroxide Treatment of the Si-(100) Surface on the ITO/Si Solar Cells Efficiency, XX International Material Research Congress, Cancún, Mexico, August 14-19, 2011.
169. Orduña Díaz A Rojas López M Delgado Macuil R.J. Torres Jacome A, **F.J. De la Hidalga-W**. F.J Ferrusca Daniel Ventura González Salvador Treviño Palacios C.G, Characterization of a Hydrogenated Amorphous Silicon Microbolometer Array, 22nd General Congress of the International Commission for Optics (ICO-22), Puebla, Mexico, August 15-19, 2011.

Memorias Arbitradas

170. 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.
171. Arroyo Huerta José E., **Díaz Méndez Alejandro**, Ramírez Cortés J. Manuel and Magaña Mario Edgardo, Fuzzy Logic Control for Automatic Impedance Matching, International Conference on Microelectronics (ICM'2011), Hammamet, Tunisia, December 19-22, 2011
172. 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.
173. 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.
174. J.C. Matheus, **A. Díaz-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.
175. **Gonzalez-Horta, F.** , **Enriquez-Caldera, R.**, Ramirez-Cortez, J.M., Martinez-Carballido, J. y Buenfil-Alpuche, E. "Mathematical Model for the Optimal Utilization Percentile in M/M/1 Systems: a contribution about knees in performance curves" The Third International Conference on Adaptive and Self-Adaptive Systems and Applications. ADAPTIVE 2011 Rome, Italy September 25-30, 2011.
176. **E. A. Gutiérrez-D.**, E. Póndigo de los A., V. H. Vega-G. and F. Guarín, "*Identification of vector gate current components in strained 28nm high-k pFETs*" aceptado y presentado en la conferencia IEEE Semiconductor Interface Specialist Conference SISC celebrada del 1 al 3 de diciembre de 2011 en Arlington, VA, USA.
177. "Mean-field theory of photonic crystals leading to the bi-anisotropic response" **P.Halevi**, J.A.Reyes-Avendaño, and F.Pérez-Rodríguez The 5th International Conference on Surface Plasmon Photonics.

Memorias Arbitradas

178. **Peter Halevi**, Uriel Algreto-Badillo and Jorge R. Zurita-Sánchez Optical response of a slab with time-periodic dielectric function $\epsilon_{ps}(t)$: Towards a dynamic metamaterial Proceedings of SPIE **8095**(2011) 80950I (15 páginas).
179. **G. Jovanovic Dolecek**, “*Compensated Sharpened Comb Decimation Filter*”, *International Symposium on Image and Signal Processing and Analysis*, Dubrovnik, Croatia, Septiembre 2011. Proc. *IEEE 2011*.pp.15-19.
180. D. Troncoso, **G. Jovanovic Dolecek**, M. Laddomada, “*Cyclotomic Polynomial Filters Based on Cascaded Recursive Building Blocks with Minimum Number of Additions*”, *International Symposium on Image and Signal Processing and Analysis*, Dubrovnik, Croatia, Septiembre 2011. Proc. *IEEE 2011*.pp.20-25.
181. A. Fernandez Vazquez, **G. Jovanovic Dolecek**, “*Multiplierless Implementation of Generalized Comb Filters (GCF) Base don Chebyshev Polynomials*”, *European Symposium on Signal Processing EUSIPCO 2011*, Barcelona, Spain, August 2011. Proc.*Eurasip*, pp.1510-1513.
182. **G. Jovanovic Dolecek**, “*Demo program for teaching the characteristics of Low-pass IIR filtros*”, *Conference 41th ASEE/IEEE Frontiers in Education (FIE)*, October 2011, Rapid City, South Dakota, USA. (Proc.2011 IEEE, pp.T4E-1- T4E-6)
183. V. Dolecek, **G. Jovanovic Dolecek**, and J. Diaz-Carmona, “*Decomposition of nonlinear-phase FIR filter into Linear-Phase Sections*”, *International Conference Trends in the Development of Machinery and Associated Technology, TMT 2011*, Prague, Czech Republic, September 2011. Proc. pp.457-460.
184. **G. Jovanovic Dolecek**, V. Dolecek, I. Karabegovic, J. Diaz-Carmona, “*Comb –based method for narrowband FIR filter Design*”, *International Conference Trends in the Development of Machinery and Associated Technology, TMT 2011*, Prague, Czech Republic, September 2011. Proc.pp.461-464.

Memorias Arbitradas

185. 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.
186. 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.
187. F. Avila, **A. Kosarev**, I. Cosme, M. Moreno, P. Roca y Cabarrocas. Electronic characteristics of PIN photovoltaic structures made of polymorphous and micro-crystalline silicon deposited by plasma. Proc. Int. Congress on Instrumentation and Applied Science, Oct-5-8, 2011, Puebla, Mexico, pages 8, ISBN 978-607-02-2298-6.
188. *F. Avila*, **A. Kosarev**, I. Cosme “Sub-gap photoconductivity in $\text{Ge}(x)\text{Si}(1-x):\text{H}$ films deposited by low frequency plasma at different substrate temperatures”. Proc. Int. Congress on Instrumentation and Applied Science, Oct-5-8, 2011, Puebla, Mexico, pages: 6, ISBN 978-607-02-2298-6.
189. I. Cosme, **A. Kosarev**, F. Temoltzi, A. Itzmoyyotl. “Study of doping of $\text{Ge}(0.96)\text{Si}(0.04):\text{H}$ films with B and P during low frequency plasma deposition at low temperature”. Proc. 8th Int. Conference on Electrical Engineering, Computing Science and Automatic Control, IEEE Cat. Number:CFP11827-ART, ISDN: 978-1-14577-1013-1, p.p. 999- 1001.
190. I. Cosme, **A. Kosarev**, F. Temoltzi, A. Itzmoyotl. “Electronic properties of $\text{Ge}(y)\text{Si}(1-y):\text{H}$ films deposited by LF PECVD at low temperatures”. Proc. 8th Int. Conference on Electrical Engineering, Computing Science and Automatic Control, IEEE Cat. Number: CFP11827-ART, ISDN: 978-1-14577-1013-1, p.p. 995- 998.
191. “Fabrication of planar microelectrodes based on bulk silicon micromachining”, C. Mata, M. Escobar, C. Zúñiga, J. Hidalgo, **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 Congreso Latino Americano de Ingeniería Biomédica. Pp. La Habana, Cuba, Mayo 2011.
192. An Experimental Comparison of Expanded Voltage Controlled Oscillators for system’s Synchronization”, **Mónico Linares Aranda**, Ramón Báez Álvarez,



Memorias Arbitradas

- Oscar González Díaz. Conference on Electronics and Computers, pp. 1012-1017. Mérida Yuc. Mexico, Octubre 2011.
193. “Modeling for polysilicon Chevron Electr-Thermal Micro-Actuators”, Carlos Ramón Báez Álvarez, **Mónico Linares Aranda**, Wilfrido Calleja Arriaga. Workshop on Analog and Digital Electronic Design, pp. 1-4, Guadalajara, Jal., Octubre, 2011.
194. “Fabrication of PolySilicon Microstructures using the PolyMEMS INAOE Technology”, D. Diaz-Alonso, F.J. Quiñones-Novelo, C. Zuñiga-Islas, J. Molina, J. Hidalgo, **M. Linares**, P. Rosales, A. Torres-Jacome, C. Reyes, W. Calleja. The 13th World Congress in Mechanism and Machine Science IMD123-IMD123-5 June 2011, Guanajuato, Mexico.
195. **O. Malik**, F.J. De la Hidalgo-W, Optoelectronic Applications of MOS Capacitors Fabricated on High Resistivity Silicon, The 5th International Conference on Sensing Technology, Palmerston North, New Zealand, Nov. 28th - Dec. 1st, 2011.
196. **O. Malik**, F.J. De la Hidalgo-W, Narrow-band ultraviolet silicon-based sensors with internal signal amplification, ICIAS-2011 (2nd International Congress on Instrumentation and Applied Sciences), October 5-8, Puebla, Mexico.
197. **J. Molina**, A. Muñoz, A. Torres, M. Landa, P. Alarcon and M. Escobar, “High-Quality SOG-Based Oxide as a Matrix for Embedding HfO₂ 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).
198. **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).
199. **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 Technology along with MIM Structures for pH Detection”, V Latin American Congress of

Memorias Arbitradas

Biomedical Engineering, VCLAIB-2011. May 16-21, 2011. La Havana, Cuba. (May 2011).

200. **Mario Moreno**, Kelly Vizcaino, Jairo Plaza, Alfonso Torres, Roberto Ambrosio, Pedro Rosales, Alfonso Torres-Rios, Adrián Itzmoyol, "STUDY OF THE EFFECT OF THE DEPOSITION TEMPERATURE ON THE PROPERTIES OF POLYMORPHOUS SILICON FILMS PREPARED BY PLASMA", in proceedings of the 2nd International Congress on Instrumentation and Applied Science ICIAS, Puebla, México, October 5-8, 2011. ISBN: 978-607-02-2298-6.
201. 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", in proceedings of the 2nd International Congress on Instrumentation and Applied Science ICIAS, Puebla, México, October 5-8, 2011. ISBN: 978-607-02-2298-6.
202. 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.
203. 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.
204. 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.
205. **Mariana Natalia Ibarra**, P. J. Escamilla-Ambrosio, **J. M Ramirez-Cortes**, "Pedestrian dead reckoning towards indoor location based applications", 8th International Conference on Electrical Engineering, Computing Science and Automatic Control, CCE 2011, October 26-28, Yucatán, México, 2011.
206. 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-



Memorias Arbitradas

- temperature a-SiGe:H Thin-film Transistors”, in Materials research society MRS, in San Francisco CA, USA, April 2011.
207. Mario Moreno, Ana C. Sarmiento, José J. Martínez, Jairo Plaza, Alfonso Torres, **Pedro Rosales**, Miguel Domínguez, Adrián Itzmoyol, “*STUDY OF BORON AND PHOSPHOROUS DOPING OF a-Si:H FILMS DEPOSITED BY LF-PECVD*”, in proceedings of the 2nd International Congress on Instrumentation and Applied Science ICIAS, Puebla, México, October 5-8, 2011. ISBN: 978-607-02-2298-6.
208. **D. Moro-Frías**, **M.T. Sanz-Pascual**, C.A. De la Cruz-Blas, “A Novel Current-Mode Winner-Take-All Topology”, Proc. of the 20th European Conference on Circuit Theory and Design (ECCTD’11), pp. 133-136, 2011.
209. A. Hernández-Morales, **M.T. Sanz-Pascual**, L. Hernández-Martínez, S. Celma, “Novel Low Frequency Signal Conditioning Circuit”, Proc. of the 20th European Conference on Circuit Theory and Design (ECCTD’11), pp. 193-196, 2011.
210. 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.
211. A. Sallem, I. Guerra-Gómez, M. Fakhfakh, M. Loulou, **E. Tlelo-Cuautle**, “Simulation-Based Optimization of CCII’s 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.
212. A. Sallem, M. Fakhfakh, **E. Tlelo-Cuautle**, M. Loulou, *Multi-Objective Simulation-Based Optimization for the Optimal Design of Analog Circuits*, IEEE International Conference on Microelectronics (ICM), pp. 1-4, ISBN: 978-1-4577-2209-7/11, Yasmine Hammamet, Tunisia, December 19-22 , 2011.
213. **E. Tlelo-Cuautle**, D. Moro-Frias, C. Sánchez-López, M. Fakhfakh, *Design of current conveyors and their applications in universal filters*, 8th International Conference on Electrical Engineering, Computing Science



Memorias Arbitradas

and Automatic Control (CCE), pp. 1060-1065, ISBN: 978-1-4577-1013-1, Mérida Yucatán, México, October 26-28, 2011.

214. R. Trejo-Guerra, **E. Tlelo-Cuautle**, J.M. Muñoz-Pacheco, C. Sánchez-López, Frequency limitations from the circuit realization of Saw-tooth based Multi-scroll Oscillators, International Workshop on Nonlinear Dynamics and Synchronization (INDS), ISBN: 978-1-4577-0759-9, Klagenfurt, Austria, July 25-27, 2011.
215. E. Zambrano-Serrano, J.M. Muñoz-Pacheco, O. Félix-Beltran, R. Trejo-Guerra, Luz del C. Gómez-Pavón, **E. Tlelo-Cuautle**, C. Sánchez-López, A. Luis-Ramos, *Synchronization of multi-directional multi-scroll chaos generators: A Hamiltonian approach*, International Workshop on Nonlinear Dynamics and Synchronization (INDS), ISBN: 978-1-4577-0759-9, Klagenfurt, Austria, July 25-27, 2011.
216. C. Sánchez-López, J.M. Muñoz-Pacheco, V.H. Carbajal-Gómez, R. Trejo-Guerra, **E. Tlelo-Cuautle**, *Automatic Synthesis of Chaotic Attractors Using Surrogate Functions*, International Workshop on Nonlinear Dynamics and Synchronization (INDS), ISBN: 978-1-4577-0759-9, Klagenfurt, Austria, July 25-27, 2011.
217. 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 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.
218. M. Domínguez-Jiménez, P. Rosales-Quintero, **A. Torres-Jácome**, J. Molina Reyes, M. Moreno-Moreno, F. J. De la Hidalga-Wade, C. Zúñiga-Islas, W. Calleja-Arriaga, "*Spin-On Glass as low temperature gate insulator*", Mater. Res. Soc. Symp. Proc. Vol. 1287, 2011
219. **R. Torres-Torres**, "Extracting characteristic impedance in low-loss substrates," Electronics Letters, Vol. 47, No. 3, pp. 191–193, Feb. 2011. ISSN: 0013-5194.
220. **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,"

Memorias Arbitradas

Microelectronics Reliability, Vol. 51, No. 2, pp. 342–349, Feb. 2011. ISSN: 0026-2714.

221. 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
222. 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.
223. 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.
224. Juan C. Cervantes-González, Donghwan Ahn, Xiaoguang Zheng, Sanjay K. Banerjee, Alfonso T. Jacome, Joe C. Campbell, **Ignacio E. Zaldívar-Huerta**, “CMOS-compatible, waveguide-integrated Ge metal-semiconductor-metal photodetectors”, 22nd Congress of the International Commission for Optics: Light for the Development of the World (Proceedings Volume), 15-19 August 2011, Puebla, Mexico. Proceedings of SPIE Volume: 8011, ISBN: 9780819485854.
225. “Distribución de la Densidad de Corriente e Impedancia de Materiales alternativos en Microelectrodos Mediante el análisis de Elemento Finito”, L. H. Francisco, E. L. Johan, H. M. A. Leobardo, **Z. I. Carlos**, S. C. Susana, IFMBE proceedings 33, 2011 pag 1 – 4.
226. 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 World Congress in Mechanism and Machine Science, IFToMM-2011. June 19-25, 2011, Guanajuato, México. (June 2011).

Memorias Arbitradas

227. Carlos Ramón Báez Álvarez, Mónico Linares Aranda, and **W. Calleja.**, “Modeling for Polysilicon Chevron ElectroThermal MicroActuators”, 1st Workshop on Analog and Digital Electronic Design, WADED 2011, Guadalajara, México, págs. 1-4, 2011.
228. 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.
229. 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.
230. 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.
231. 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.
232. 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.
233. 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.

Memorias Arbitradas

234. 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 Conference on Electronics, Communications and Computers (CONIELECOMP 2011), pp. 334-338, Cholula, Puebla, México. February 28th –March 2nd 2011.
235. 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.
236. 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

237. “Robust Fingerprint Verification Using M-Triplets”. Medina-Perez, M.A. Garcia-Borroto, M. Gutierrez-Rodriguez, A.E. **Altamirano-Robles, L.** 2011 International Conference on Hand-Based Biometrics (ICHB 2011), 17-18 November 2011, Hong Kong, China. ISBN: 978-1-4577-0490-1 (Article). pp. 6-10.
238. “On an Hybrid and General Control Scheme for Algorithms Represented as a Polytope”, Roberto Pérez-Andrade, César Torres-Huitzil, **René Cumplido, Juan M. Campos.** 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.
239. “Invited paper: Implementing digital data hiding algorithms in reconfigurable hardware — Experiences on teaching and research”, **Rene Cumplido, Caudia Feregrino-Uribe**; Garcia-Hernandez, J.J. 2011 6th International Workshop on Reconfigurable Communication-centric Systems-on-Chip (ReCoSoC), Issue Date: 20-22 June 2011, On page(s): 1 – 6, DOI. Digital

Memorias Arbitradas

Object Identifier: 10.1109/ReCoSoC.2011.5981526. IEEE Press. ISBN: 978-1-4577-0642-4.

240. "Novel Hardware Architecture for Implementing the Inner Loop of the SHA-2 Algorithms", Ignacio Algreto-Badillo, **Claudia Feregrino-Uribe**, **René Cumplido**, **Miguel Morales-Sandoval**, 14th Euromicro Conference on Digital Systems Design, Architectures, Methods and Tools, Oulu, Finland, August-September, 2011. ISBN 978-0-7695-4494-6
241. "A Reconfigurable GF(2M) Elliptic Curve Cryptographic Coprocessor", M. Morales-Sandoval, **C. Feregrino-Uribe**, **R. Cumplido**, I. Algreto-Badillo. 2011 *VII Southern Conference on Programmable Logic (SPL)*. IEEE Press. Pp.209-214. ISBN: 978-1-4244-8846-9. April 2011.
242. "Finding Patterns in Labeled graphs Using Spectrum Feature Vectors in a SOM Network". Fonseca R, **Gómez-Gil P**, **González JA**, Olmos I. (IJCNN), The 2011 International Joint Conference on. Neural Networks July 31 2011-Aug. 5 2011, pp. 1185 - 1190 ISSN : 2161-4393 Print ISBN: 978-1-4244-9635-8. DOI: 10.1109/IJCNN.2011.6033358.
243. "Unveiling HIV mutational networks associated to pharmacological selective pressure: a temporal Bayesian approach", Pablo Hernandez-Leal, Alma Rios-Flores, Santiago Avila-Rios, Gustavo Reyes-Teran, **Jesus A. Gonzalez**, Felipe Orihuela-Espina, **Eduardo F. Morales**, and **L. Enrique Sucar**, Probabilistic problem solving in biomedicine ProBioMed'2011, July 2, 2011. Bled, Slovenia. AIME 2011. pp. 41-54
244. "Handling of Numeric Ranges with the Subdue System". **Oscar E. Romero A.**, **Jesus A. Gonzalez B.**, Lawrence B. Holder. *Proceedings of the Twenty-Fourth International Florida Artificial Intelligence Research Society Conference*, May 18-20, 2011, Palm Beach, Florida, USA. pp. 99-100.
245. "A New Approach for Handling Numeric Ranges for Graph-Based Knowledge Discovery". Oscar E. Romero A., Lawrence B. Holder, Jesus A. Gonzalez B., the Proceedings of the 2011 International Conference on Data Mining (DMIN11), 2011. July 18-21, 2011. Las Vegas Nevada, USA. pp. 40-46. ISBN : 1-60132-168-6
246. "Self-organization of Agents for Collective Movement Based on Particle Swarm Optimization: A Qualitative Analysis", **Armando Serrato Barrera**, **Aurelio López-López**, **Gustavo Rodríguez Gómez** *Proc. 21st International*

Memorias Arbitradas

Conference on Electronics, Communications and Computers
CONIELECOMP 2011, ISBN 978-1-4244 9557-3, pp. 71-76.

247. Language dominance prediction in Spanish-English bilingual children using syntactic information: a first approximation. Gabriela Ramirez-De-La-Rosa, Tamar Solorio, **Manuel Montes Y Gomez**, Yang Liu, Aquiles Iglesias, Lisa Bedore and Elizabeth Peña. Workshop on Iberian Cross-Language NLP tasks (ICL 2011). Huelva, Spain, September 2011.
248. Modality Specific Meta Features for Authorship Attribution in Web Forum Posts. Tamar Solorio, Sangita Pillay, Sindhu Raghavan, **Manuel Montes**. 5th International Joint Conference on Natural Language Processing (IJCNLP2011), Chiang Mai, Thailand, November 2011.
249. Instance Selection in Text Classification Using the Silhouette Coefficient Measure. Debangana Dey, Tamar Solorio, **Manuel Montes-y-Gómez, Hugo Jair Escalante**. Mexican International Conference on Artificial Intelligence (MICA I 2011) Part I, LNAI 7094, pp 357-369. Springer-Verlag. Puebla, Mexico, November 2011.
250. A Weighted Profile Intersection Measure for Profile-based Authorship Attribution. **Hugo Jair Escalante, Manuel Montes**, Tamar Solorio. Mexican International Conference on Artificial Intelligence (MICA I 2011) Part I, LNAI 7094, pp 232-243. Springer-Verlag. Puebla, Mexico, November 2011.
251. "Combining Word and Phonetic-Code Representations for Spoken Document Retrieval". **Manuel Alejandro Reyes-Barragán, Manuel Montes-y-Gómez and Luis Villaseñor-Pineda**. *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).
252. "Local Histograms of Character n-grams for Authorship Attribution. Hugo Jair Escalante, Tamar Solorio, **Manuel Montes-y-Gómez**. *The 49th Annual Meeting of the Association for Computational Linguistics (ACL 2011)*. Portland, Oregon, USA, June 19-24, 2011. (Core A+).
253. "Teaching a Robot to Perform Tasks through Imitation and On-line Feedback". **Adrián León, Eduardo F. Morales, Leopoldo Altamirano, Jaime R. Ruiz**. In *Pattern Recognition, Image Analysis, Computer Vision*,

Memorias Arbitradas

and Applications 16th Iberoamerican Congress, CIARP 2011, Pucón, Chile, November 15-18, 2011. ISBN 978-3-642-25084-2. ISSN 0302-9743. pp. 549-556. LNCS-7042, Springer.

254. "Teaching a Robot New Tasks through Imitation and Feedback". **Adrián León, Eduardo F. Morales, Leopoldo Altamirano, Jaime R. Ruiz**. In Proc. Workshop: New Developments in Imitation Learning dentro del The 28th Internacional Conference on Machine Learning (ICML-2011). in Bellevue, Washington, USA, from June 28 through July 2, 2011. pag. 7.
255. "A Minority Class Feature Selection Method". **German Cuaya, Angélica Muñoz, Eduardo F. Morales**. In Proc. Pattern Recognition, Image Analysis, Computer Vision, and Applications the 16th. Iberoamerican Congress on Pattern Recognition CIARP-2011. Pucón, Chile, November 15-18, 2011. ISBN 978-3-642-25084-2. ISSN 0302-9743. pp. 417-424 LNCS-7042, Springer.
256. "Genetic Selection of Fuzzy Model for Acute Leukemia Classification", **Alejandro Rosales-Perez, Carlos A. Reyes-Garcia, Pilar Gomez-Gil, Jesus A. Gonzalez Leopoldo Altamirano**, in I. Batyrshin and G. Sidirov (eds), Advances in Artificial Intelligence, Lecture Notes in Artificial Intelligence, vol I, pp 537-548 , Springer Berlin / Heidelberg (2011), ISSN 0302-9743, ISBN 978-3-642-25323-2. LNAI 7094 November/December 2011.
257. "EmoWisconsin: An emotional children speech database in Mexican Spanish", **Humberto Perez-Espinosa, Carlos A. Reyes-Garcia, Luis Villaseñor-Pineda**, in Sidney D'Mello, Arthur Graesser, Björn Schuller, and Jean-Claude Martin (Eds.): Affective Computing and Intelligent Interaction, LNCS 6975, p. 62-71. 4th International Conference, ACII 2011, Memphis, TN, USA, October 2011, ISSN 0302-9743, ISBN 978-3-642-24570-1, DOI 10.1007/978-3-642-24571-8.
258. "Hacia la clasificación de habla no pronunciada mediante electroencefalogramas (EEG)", **A. A. Torres García, C. A. Reyes García, L. Villaseñor Pineda**, in CD volumen of proceedings of the XXXIV Congreso Nacional de Ingeniería Biomédica, pp. 9-12, Ixtapa-Zihuatanejo, Guerrero, Mexico, October 5-8, 2011. ISBN: 978-607-477-565-5.
259. "Genetic fuzzy relational neural network for infant cry classification". **Rosales-Pérez, A., Reyes-García, C. A., Gómez-Gil, P.**: In: Martínez-Trinidad, J., Carrasco-Ochoa, J., Ben-Youssef Brants, C., Hancock, E.

Memorias Arbitradas

(eds.) *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.

260. “Emergence of a New Alternative on Cry Analysis: The Fuzzy Approach”, S.D. Cano-Ortiz, **C.A. Reyes-García**, O.F. Reyes-Galaviz, D.I. Escobedo-Beceiro and J.D. Cano-Otero, 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.
261. “Bilingual Acoustic Feature Selection for Emotion Estimation using a 3D Continuous Model”, **Humberto Pérez Espinosa**, **Carlos A. Reyes García**, **Luis Villaseñor Pineda**, 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.
262. “Similarity Metric Behavior for Image Retrieval Modeling in the Context of Spline Radial Basis Function”, Leticia Flores Pulido, Oleg Starostenko, **Gustavo Rodríguez-Gómez**, et al., 10th Mexican International Artificial Intelligence MICAÍ 2011, Part II, LNAI 7095, pp. 443-451. November 26-December 4, 2011, Puebla, México.
263. “Design Patterns in Multi-Agent System Simulation”, **Ricardo Serrato Barrera**, **Gustavo Rodríguez Gómez**, **Aurelio López-López**, *Proc. 21st International Conference on Electronics, Communications and Computers CONIELECOMP 2011*, ISBN 978-1-4244 9557-3, pp. 60-65.
264. “Pattern Object-Oriented Architecture for Multirate Integration Methods”, **Julio César Pérez Sansalvador**, **Gustavo Rodríguez Gómez**, **Saúl Eduardo Pomares**, *Proceedings XXI CONIELECOMP 2011, Conference on electronics communications and computers*, UDLA, Puebla, págs. 158-163, ISSN 978-1-4244-9557-3.
265. “Next-Best-View Planning for 3D Object Reconstruction under Positioning Error”, **Juan Irving Vásquez**, **L. Enrique Sucar**, Mexican International Conference on Artificial Intelligence (MICAÍ), in LNAI 7094, Springer, pp. 429–442, 2011. November/December 2011.



Memorias Arbitradas

266. "Towards a General Vision System Based on Symbol-Relation Grammars and Bayesian Networks", Elias Ruiz, Augusto Melndez, **Luis Enrique Sucar**, AGI 2011, LNAI 6830, pp. 291-296, 2011. August 3-6, 2011.
267. "Gesture Therapy 2.0: Adapting the rehabilitation therapy to the patient progress", Hector Aviles, Roger Luis, Juan Oropeza, Felipe Orihuela-Espina, Ronald Leder, Jorge Hernaandez-Franco, and **Enrique Sucar**, Probabilistic problem solving in biomedicine, ProBioMed'2011, July 2, 2011. Bled, Slovenia. AIME 2011. pp.3-13.
268. "Learning Temporal Bayesian Networks for Power Plant Diagnosis". **Pablo Hernandez-Leal**, **L. Enrique Sucar**, **Jesus A. Gonzalez**, **Eduardo F. Morales** and Pablo H. Ibarguengoytia. 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.
269. "Bayesian Chain Classifiers for Multidimensional Classification", **Julio H. Zaragoza**, **L. Enrique Sucar**, **Eduardo F. Morales**, Concha Bielza, Pedro Larraaga, IJCAI, pp. 2192-2197, 2011. July 16-22, 2011.
270. "Learning Temporal Nodes Bayesian Networks". **Pablo Hernandez-Leal**, **L. Enrique Sucar**, **Jesus A. Gonzalez**. *Proceedings of the Twenty-Fourth International Florida Artificial Intelligence Research Society Conference*, May 18-20, 2011, Palm Beach, Florida, USA. pp. 608-613.
271. "A Two-Step Method to Learn Multidimensional Bayesian Network Classifiers Based on Mutual Information Measures". **Julio H. Zaragoza**, **L. Enrique F. Sucar**, **Eduardo Morales**. *Proceedings of the Twenty-Fourth International Florida Artificial Intelligence Research Society Conference*, May 18-20, 2011, Palm Beach, Florida, USA. pp. 644-649.