
Memorias Arbitradas Publicadas

Astrofísica

Internacionales

1. Aguilar, J., DuVernois, M., Montaruli, T., "Online digital FPGA time-over threshold trigger system for the HAWC experiment", Wisher for the HAWC Collaboration, paper 1103 (OG2.5), ICR 2011. "The HAWC collaboration" incluye **Carramiñana, A., Carrasco, L., Galindo, A. (est.), González, L. X., Mendoza-Torres, J. E.,** Nava, J., Olmos-Tapia, A., **Reyes, J., Rosa-González, D., Silich, S., Suárez, N. (est.), Tenorio-Tagle, G., Torres, I., Wall, W.,** Walters, J. S..
2. Asif Imran "Study of the HAWC Sensitivity to Active Galactic Nuclei", for the HAWC Collaboration, paper 0780 (OG2.3), ICR 2011. "The HAWC collaboration" incluye **Carramiñana, A., Carrasco, L., Galindo, A. (est.), González, L. X., Mendoza-Torres, J. E.,** Nava, J., Olmos-Tapia, A., **Reyes, J., Rosa-González, D., Silich, S., Suárez, N. (est.), Tenorio-Tagle, G., Torres, I., Wall, W.,** Walters, J. S.
3. Baughman B.M., "Instrument response of the High Altitude Water Cherenkov observatory", for the HAWC Collaboration, paper 0924 (OG2.5), ICR 2011. "The HAWC collaboration" incluye **Carramiñana, A., Carrasco, L., Galindo, A. (est.), González, L. X., Mendoza-Torres, J. E.,** Nava, J., Olmos-Tapia, A., **Reyes, J., Rosa-González, D., Silich, S., Suárez, N. (est.), Tenorio-Tagle, G., Torres, I., Wall, W.,** Walters, J. S.
4. Bonamente, E., Galbraith-Frew, J., Hüntemeyer, P., "TeV Gamma-Ray Emission from the Cygnus Region with Milagro", for the HAWC Collaboration, paper 0347 (OG2.1), ICR 2011. "The HAWC collaboration" incluye **Carramiñana, A., Carrasco, L., Galindo, A. (est.), González, L. X., Mendoza-Torres, J. E.,** Nava, J., Olmos-Tapia, A., **Reyes, J., Rosa-González, D., Silich, S., Suárez, N. (est.), Tenorio-Tagle, G., Torres, I., Wall, W.,** Walters, J. S.
5. **Carrasco, E.,** Sánchez-Blanco, E., García-Vargas, M. L., Gil de Paz, A., Páez, G., Gallego, J., Sánchez, F. M., Vílchez, J. M., "MEGARA spectrograph optics", Ground-based and Airborne Instrumentation for Astronomy IV. Proceedings of the SPIE, Volume 8446, id. 84465B-84465B-14 (2012). 8446, 9/2012.

Memorias Arbitradas Publicadas

6. Castillo-Domínguez, E., **Ferrusca, D.**, Tulloch, S., **Velázquez, M.**, **Carrasco, E.**, Gallego, J., Gil de Paz, A., Sánchez, F. M., Vílchez Medina, J. M., "Cryostat and CCD for MEGARA at GTC", Ground-based and Airborne Instrumentation for Astronomy IV. Proceedings of the SPIE, Volume 8446. id. 84465Y-84465Y-10 (2012). 8446, 9/2012.
7. Chávez Barranco, S.; Enríquez Caldera, R., Camacho-Lara, S., **Guichard, J.**, "Virtual Instrument for Navigation and Control in Formation Flying", 7th International Workshop on Satellite Constellations and Formation Flying, Lisbon, Portugal 13-15 March 2013, aceptado.
8. **Chavushyan, V.**, Erastova, L., Tovmassian, G., **Torrealba, J.**, **Valdes, J. R.**, "SBS 0802+529: a New Variable Star from the Second Byurakan Survey", BaltA 21, 200-205, 0/2012.
9. **Colin, A.**, "Design of a long wave infrared bolometric detection structure", RMexAA (Series de Conferencias), en prensa.
10. De la Fuente, E., Lara, A., Santiago-Hernández, A., González, M., Caballero-López, R., "Correcting the count rate in Water Cherenkov Detectors for the effects of barometric pressure and local temperature", for the HAWC Collaboration, paper 0785 (SH4.5), ICR 2011. "The HAWC collaboration" incluye **Carramiñana, A.**, **Carrasco, L.**, **Galindo, A. (est.)**, **González, L. X.**, **Mendoza-Torres, J. E.**, Nava, J., Olmos-Tapia, A., **Reyes, J.**, **Rosa-González, D.**, **Silich, S.**, **Suárez, N. (est.)**, **Tenorio-Tagle, G.**, **Torres, I.**, **Wall, W.**, Walters, J. S.
11. Del **Burgo C.**, Martín E. L., Zapatero Osorio M. R., Deshpande R., Witte S., Helling Ch., Hauschildt P. H., "Extracting the physical parameters of a sample of M-dwarfs from high-resolution near-infrared data", Proceedings of "New Quests in Stellar Astrophysics", Puerto Vallarta, México, March 12-16, 2012, eds.: M. Chavez, E. Bertone, O. Vega, V. de la Luz, Astronomical Society of the Pacific Conference Series, en prensa.
12. del **Burgo C.**, Vather D., Allende Prieto C., Murphy N., "PHASES: A Project to perform Absolute Spectrophotometry from Space", Proceedings of "New Quests in Stellar Astrophysics", Puerto Vallarta, México, 12-16 Marzo, 2012, eds.: M. Chavez, E. Bertone, O. Vega, V. de la Luz, Astronomical Society of the Pacific Conference Series, en prensa.

Memorias Arbitradas Publicadas

13. Deshpande, A. A., Goss, W. M., **Mendoza-Torres, J. E.**, "OH Maser sources in W49N: probing differential anisotropic scattering with Zeeman pairs", Cosmic Masers - from OH to H₀, Proceedings of the International Astronomical Union, IAU Symposium, Volume 287, p. 470-474 287, 470-474, 7/2012.
14. García-Vargas, M. L., Sánchez-Blanco, E., **Carrasco, E.**, Gil de Paz, A., Páez, G., Pérez, A., Gallego, J., Sánchez, F., Vílchez, J. M., "MEGARA Optical design: the new integral field unit and multi-object spectrograph for the GTC 10m telescope", Proceedings of "SPIE Optical Systems", CCIB - Centre Convencions Internacional Barcelona. Barcelona, España. 26 - 29 November 2012.
15. Gil de Paz, A., Sánchez-Blanco, E., García-Vargas, M.L., Carrera, M.A., Gallego, J., **Carrasco, E.**, J., Sánchez, J.M., Vílchez, M.L. & MEGARA team, "MEGARA focal plane subsystems". Pérez-Calpena, A., Arriaga, X., Ground-based and Airborne Instrumentation for Astronomy IV. Proceedings of the SPIE, Volume 8446 84465E-1.
16. Gil de Paz, A., **Carrasco, E.**, Gallego, J., Sánchez, F. M., Vílchez Medina, J. M., García-Vargas, M. L., Arrillaga, X., Carrera, M. A., Castillo-Morales, A., **Castillo-Domínguez, E.**, (57 coautores, incluyendo **Ferrusca, D., Castillo-Dominguez, E., Bertone, E., Chávez M., Guichard J., Hughes, D., Mayya, Y.D., Rosa D., Silich S., Tenori-Tagle G., Terlevich E., Terlevich R., Vega O.**) "MEGARA: the future optical IFU and multi-object spectrograph for the 10.4m GTC telescope", Ground-based and Airborne Instrumentation for Astronomy IV. Proceedings of the SPIE, Volume 8446, id. 84464Q-84464Q-9 (2012). 8446, 9/2012.
17. Gómez-Gil, P. , **López-Cruz, O.**, & **Cruz-Martínez, A. B. (est)**, 2012, "Improving Neural-Based Classification of Databases with Overlapped Classes: the Case of Star/Galaxy Segregation", Proceedings of LASCAS 2012, 3rd IEEE Latin American Symposium on Circuits and Systems, Playa del Carmen, Feb. 29-Mar. 2, 2012.
18. **González, L. X.**, Valdés-Galicia, J. F., Matsubara, Y., Nagai, Y., Itow, Y., Sako, T., López, D., Mitsuka, G., Munakata, K., Kato, C., Yasue, S., Kosai, M., Tsurusashi, M., Nakamo, Y., Shibata, S., Takamaru, H., Kojima, H., Tsuchiya, H., Watanabe, K., Koi, T., Fragoso, E., Hurtado, A., Musalem, O. "Scintillator Cosmic Ray Super Telescope". New Quest in Stellar Astrophysics III, ", Puerto Vallarta, México, 12-16 Marzo, 2012,

Memorias Arbitradas Publicadas

- eds.: M. Chavez, E. Bertone, O. Vega, V. de la Luz, Astronomical Society of the Pacific Conference Series, en prensa.
19. Goodman, J., Braun, J. "The HAWC Observatory", for the HAWC Collaboration, paper 1059 (OG2.5), ICR 2011. "The HAWC collaboration" incluye **Carramiñana, A., Carrasco, L., Galindo, A. (est.), González, L. X., Mendoza-Torres, J. E.,** Nava, J., Olmos-Tapia, A., **Reyes, J., Rosa-González, D., Silich, S., Suárez, N. (est.), Tenorio-Tagle, G., Torres, I., Wall, W.,** Walters, J. S.
 20. Grabski, V., Nellen, L., Chilingarian, A., Vardanian, A., "Gamma/hadron separation study for the HAWC detector on the basis of the multidimensional feature space using non parametric approach", , for the HAWC Collaboration, paper 1191 (OG2.5), ICR 2011. "The HAWC collaboration" incluye **Carramiñana, A., Carrasco, L., Galindo, A. (est.), González, L. X., Mendoza-Torres, J. E.,** Nava, J., Olmos-Tapia, A., **Reyes, J., Rosa-González, D., Silich, S., Suárez, N. (est.), Tenorio-Tagle, G., Torres, I., Wall, W.,** Walters, J. S.
 21. Huentemeyer, P., Bonamente, E., Dingus, B., Kelley-Hoskins, N., Lauer, R., Longo, M., Matthews, J., Salesa Greus, F., "Calibration of the HAWC observatory", for the HAWC Collaboration, paper 0767 (OG2.5) , ICR 2011. "The HAWC collaboration" incluye **Carramiñana, A., Carrasco, L., Galindo, A. (est.), González, L. X., Mendoza-Torres, J. E.,** Nava, J., Olmos-Tapia, A., **Reyes, J., Rosa-González, D., Silich, S., Suárez, N. (est.), Tenorio-Tagle, G., Torres, I., Wall, W.,** Walters, J. S.
 22. Moreno Barbosa, E., **Torres, I., Galindo, A. (est.), Carrasco, E., Carramiñana, A.,** for the LAGO Collaboration paper 1171 (OG2.4) "Geant 4 simulation of the water detector Cherenkov at the Large Aperture Gamma Ray Burst Observatory in Sierra Negra, México".
 23. Maldonado Medina, M., García-Vargas, M.L., Gil de Paz, A., Sánchez-Blanco, E., Pérez-Calpena, A., Gallego, J., **Carrasco, E.,** Sánchez, F.M., Vílchez, J.M. & MEGARA team, "MEGARA spectrograph for the GTC: mechanical and optomechanical design", Ground-based and Airborne Instrumentation for Astronomy IV. Proceedings of the SPIE, Volume 8446. SPIE Vol. 8446 844655-1.
 24. Mostafá, M., Longo, M., Salesa Greus, F., Warner, D., "A water Cherenkov detector prototype for the HAWC gamma-ray observatory", on behalf of the HAWC Collaboration, paper 0700 (OG2.5), ICR 2011,

Memorias Arbitradas Publicadas

- ICR 2011. "The HAWC collaboration" incluye **Carramiñana, A., Carrasco, L., Galindo, A. (est.), González, L. X., Mendoza-Torres, J. E., Nava, J., Olmos-Tapia, A., Reyes, J., Rosa-González, D., Silich, S., Suárez, N. (est.), Tenorio-Tagle, G., Torres, I., Wall, W., Walters, J. S.**
25. Porras, A., Reyes J. (est.), "Infrared and 1.1mm emission of intermediate mass YSOs with disk at Southern Carina Nebula", A Panchromatic View of Solar-like Stars, With and Without Planets (Eds. M. Chavez, E. Bertone, O. Vega & Victor de la Luz) The Astronomical Society of the Pacific Conference Series (2012).
26. Pretz, J., "Low energy triggering with HAWC", for the HAWC Collaboration, paper 1224 (OG2.5), ICR 2011. "The HAWC collaboration" incluye **Carramiñana, A., Carrasco, L., Galindo, A. (est.), González, L. X., Mendoza-Torres, J. E., Nava, J., Olmos-Tapia, A., Reyes, J., Rosa-González, D., Silich, S., Suárez, N. (est.), Tenorio-Tagle, G., Torres, I., Wall, W., Walters, J. S.**
27. Reyes Valeria, E., Enríquez Caldera, R., Camacho-Lara, S., **Guichard, J.**, "LQR Control for a Quadrotor using Unit Quaternions: Modeling and Simulation", CONIELECOMP 2013, International Conference on Electronics, Communications and Computers. Puebla, Mexico, enviado.
28. Salazar, H., "The Large Aperture GRB Observatory (LAGO)", for the LAGO Collaboration, paper 1244 (OG2.5), ICR 2011. "The LAGO collaboration" incluye **Carramiñana, A., Carrasco, E., Mendoza, E., Torres, I.**
29. Taboada, I., "Sensitivity of HAWC to Gamma Ray Bursts", for the HAWC Collaboration, paper 0290 (OG2.4), ICR 2011. "The HAWC collaboration" incluye **Carramiñana, A., Carrasco, L., Galindo, A. (est.), González, L. X., Mendoza-Torres, J. E., Nava, J., Olmos-Tapia, A., Reyes, J., Rosa-González, D., Silich, S., Suárez, N. (est.), Tenorio-Tagle, G., Torres, I., Wall, W., Walters, J. S.**
30. **Tenorio-Tagle, G.**, "On the Metallicity of Blue Compact Dwarfs", 2012 en Dwarf Galaxies: Keys to Galaxy Formation and Evolution, Astrophysics &

Memorias Arbitradas Publicadas

- Space, Science proceedings, Eds. P. Papaderos, S. Recchi & G. Hensler, pp. 253-256, 0/2012.
31. **Torres, I., Carramiñana, A., Walters, J. S., Reyes, J.**, "Site development of the HAWC gamma-ray observatory in Sierra Negra", for the HAWC Collaboration, paper 0912 (OG2.5), Proceedings of the 32nd International Cosmic-Ray Conference, Beijing, China 2011, 2012.
32. Villaseñor, L, "Search for Gamma Ray Bursts and Forbush decreases in the LAGO observatory", for the LAGO Collaboration, paper 1298 (SH2.6), ICR 2011. "The LAGO collaboration" incluye **Carramiñana, A., Carrasco, E., Mendoza, E., Torres, I.**
33. **Dalle Mese G. (est), López-Cruz, O., Ibarra-Medel, H.J. (est), Añorve, C. (est),** Pérez González, P.G., Odell, A., Schuster, W., **Rosa González, D. & García, G.**, "SHARDSGREN: Applications of Intermediate-Band Photometry to the Study of Clusters of Galaxies", 2012, to appear in the proceedings "Science with the GTC" Meeting held from 16-18 November, 2011 at La Palma, RevMexAA (SC), en prensa.
34. **Dalle Mese, G. (est.), López-Cruz, O.,** Schuster, W. J., Chavarría, C., García, J. G., "Empirical Calibration of the Physical Parameters of Solar-like stars using uvby-Stromgren Photometry", arXiv arXiv:1212.3018-, 12/2012.
35. Delgado-Inglada, G., **Rodríguez, M.**, "C/O abundance ratios and dust features in galactic planetary nebulae", Planetary Nebulae: An Eye to the Future, Proceedings of the International Astronomical Union, IAU Symposium, Volume 283, p. 342-343 283, 8/2012.
36. Franchini, M., Morossi, C., di Marcantonio, P., Malagnini, M. L., **Chávez, M.**, Venturi, F., Pinamonti, M., "Stellar parameters, ages and distances in F,G,K stars from spectra analysis via Lick/SDSS indices", Electronic Proceedings of "The Chemical Evolution of the Milky Way", January 23 - 27, 2012 Sexten Center for Astrophysics (SCfA). Sesto Pusteria, Dolomites, Bolzano, Italy , 1/2012.
37. Hagele, G. F., Cardaci, M. V., Bosch, G. L., Diaz, A. I., **Terlevich, E., Terlevich, R.**, "Circumnuclear star-forming regions in early type spiral galaxies: dynamical masses", in "V ADeLa: Astronomía Dinámica en

Memorias Arbitradas Publicadas

- Latinoamérica", La Plata, Argentina, March 2012, en prensa, arXiv:1205.3704-, 5/2012.
38. Mason, R. E., Lopez-Rodriguez, E., Packham, C., Alonso-Herrero, A., Levenson, N. A., Radomski, J., Ramos Almeida, C., Colina, L., Elitzur, M., **Aretxaga, I.**, Roche, P. F., Oi, N., "The Nuclear Infrared Emission of Low-Luminosity AGN", Journal of Physics: Conference Series, Volume 372, Issue 1, pp. 012036 (2012). 372, 012036-, 7/2012.
39. **Mayya, Y.D., Luna, A., Carrasco, L.** Bronfman, L., "The interplay between the young stellar super cluster Westerlund 1, and the surrounding interstellar medium." Assembling the Puzzle of the Milky Way, Le Grand-Bornand, France, Edited by C. Reylé; A. Robin; M. Schultheis; EPJ Web of Conferences, Volume 19, id.08006.
40. **Mendoza-Torres J.E.**, Niembro-Hernandez, R.T., "The distributions of UV solar Explosive Events", 2nd ATST-EAST Workshop in Solar Physics: Magnetic Fields from the Photosphere to the Corona, V. 463, p. 181.
41. Muñoz-Tuñón, C., **Tenorio-Tagle, G., Silich, S.**, Wunsch, R., Méndez-Abreu, J. & Palous, J., "Star Formation Feedback for Compact Stellar Systems", La Palma IV GTC meeting, 2012, RevMexAA (SC), en prensa.
42. **Plionis, M.**, "Alternative tracers to estimate the Dark Energy equation of state" 10th Hellenic Astronomical Conference, Proceedings of the conference held at Ioannina, Greece, 5-8 September 2011. Edited by Iossif Papadakis and Anastasios Anastasiadis., pp. 14-14.
43. **Plionis, M.**, Koutoulidis, L., Georgantopoulos, I., Fanidakis, N., "Clustering, bias and the accretion mode of X-ray-selected AGN", International Conference "Half a Century of X-ray Astronomy", Mykonos island, Greece, September 2012.
44. **Rodríguez, M.**, Delgado-Inglada, G., "Chlorine and sulfur in nearby planetary nebulae and H II regions", Planetary Nebulae: An Eye to the Future, Proceedings of the International Astronomical Union, IAU Symposium, Volume 283, p. 488-489 283, 488-489, 8/2012.

Memorias Arbitradas Publicadas

Nacional

45. **Chavez, M., Hughes, D.** "El Universo Oscurecido", Memorias del Congreso "Ciencia y Humanismo" enero 18-20, Academia Mexicana de Ciencias.
46. **Colin, A., Torrealva, R., Olvera, J. L.,** "Una antena compacta de 2.4 GHz acoplada con lente para aplicaciones en redes de área local inalámbrica", SOMI XXVII Congreso de instrumentación, 29-31 octubre, Sinaloa-México, 2012.
47. **Ferrusca, D.,** "Sistema de detección superconductor operando a 300 mk para astronomía milimétrica", SOMI XXVII Congreso de Instrumentación, Culiacán, Sinaloa, del 29 al 31 de octubre de 2012.
48. **Gómez, V., Ibarra, E., Velázquez, M.,** "Diseño y caracterización de superficies selectivas de frecuencia como absorbedores de radiación electromagnética a longitudes de onda milimétrica", Congreso de Instrumentación, SOMI XXVII, octubre 2012.
49. Izazaga-Pérez, R., Granados-Agustín, F. S., Percino-Zacarías, M. E., **Carrasco-Licea, E.,** "Optical Test by Sub-apertures Applied to a 6.5 m. Mirror", Aparecerá en Astronomical Instrumentation for Robotic Telescopes RevMexAA (CS). Ensenada, B.C. México, del 3-7 Septiembre 2012.
50. **Luna, A., Carrasco, L., Vázquez, M. A. (est.), Cuéllar, A.,** "Polarímetro infrarrojo para Canica", Congreso Nacional de la Sociedad Mexicana de Instrumentación SOMI XXVII, Culiacán, Sinaloa, 29-31 de octubre de 2012.
51. Pozos, J., Juárez, N., **Luna, A.,** "Multifísica del calentamiento con microondas", Congreso Nacional de la Sociedad Mexicana de Instrumentación SOMI XXVII, Culiacán, Sinaloa, 29-31 de octubre de 2012.
52. Roldán, O. A., **Luna, A., Hiriart, D.,** "Monitor de Turbulencia Atmosférica", Congreso Nacional de la Sociedad Mexicana de Instrumentación, SOMI XXVII, Culiacán, Sinaloa, 29-31 de octubre de 2012.



Memorias Arbitradas Publicadas

53. **Velázquez, M., Gómez, V.**, “Superficies selectivas de frecuencia como elementos de filtrado en longitudes de ondas milimétricas”, Congreso de Instrumentación, SOMI XXVII, octubre 2012.

Óptica

Internacional.

54. **Victor Arrizón, David Sánchez-de-la-Llave**, Guadalupe Méndez. "Diffractive phase elements that achieve the maximum diffraction efficiency in the synthesis of a class of nondiffracting complex fields". FiO/LS Technical Digest, OSA Meeting 2012 celebrado en San José, CA. del 13 al 18 de octubre de 2012. .
55. Antonio Ortiz-Ambriz, **Miguel A. Bandres**, Julio C. Gutiérrez-Vega. "Visualization of optical fields with ellipsoidal geometry". Optics and Photonics Proc. SPIE 8490, Laser Beam Shaping XIII, 84900P, doi:10.1117/12.931509.celebrado en San Diego, CA del 12 al 16 de agosto de 2012.
56. E. Villanueva-Luna, A. Santiago-Alvarado, **J. Castro-Ramos**, S. Vázquez-Montiel; A. Flores-Gil, J. Aguilar-Soto, J. A. Delgado-Atencio. "Low abundances of synthetic lipids in phantoms". Photonics West Optical Diagnostics and Sensing XII: Toward Point-of-Care Diagnostics; and Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement of Tissue IV, [Robert J. Nordstrom](#); [Gerard L. Côté](#) Editors, [Proceedings of SPIE Vol. 8229](#), celebrado en San Francisco, CA: del 21 al 26 de enero de 2012. 82290S-1-82290S-7.
57. E. Villanueva-Luna, **J. Castro-Ramos**, S. Vázquez-Montiel, A. Flores-Gil, C. M. Ortiz-Lima, J. A. Delgado-Atencio. "Raman spectroscopy of blood in-vitro". Photonics West Optical Diagnostics and Sensing XII: Toward Point-of-Care Diagnostics; and Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement

Memorias Arbitradas Publicadas

of Tissue IV, [Robert J. Nordstrom](#); [Gerard L. Côté](#), [Proceedings Vol. 8229](#), celebrado en San Francisco, CA. del 21 al 26 de enero de 2012.

58. Benito Canales-Pacheco, **Alejandro Cornejo-Rodriguez**, **Fermín Granados-Agustin**, Esteban Rueda-Soriano, Pedro Cebrian-Xochihuilá. "Interferometer inspection of local defect type Young's-Chalmers". Optics and Photonics Proc. of SPIE Vol. 8494, Interferometry XVI: Applications 84940O doi: 10.1117/12.930049 celebrado en San Diego, CA. del 12 al 16 de agosto de 2012.
59. E. V. Garcia Ramirez, M. L. Arroyo Carrasco, M. M. Mendez Otero, E. Reynoso Lara, **S. Chávez Cerda**, **M. D. Iturbe Castillo**. "Nonlinear refractive and absorptive response of a thin nonlocal media". Nonlinear Photonics (Optical Society of America, Washington, DC, 2012), celebrado Colorado, E. U. del 17 al 22 de junio de 2012. JM5A.54.
60. H. A. Jiménez-Romero, **S. Chávez-Cerda**, "Traveling waves approach for Airy beams". 8th EOS Topical Meeting on Diffractive Optics 2012 (DO 2012) celebrado en Delf, Netherlands del 27 de febrero al 1 marzo de 2012.
61. Joel Santos-Aguilar, **Celso Gutiérrez-Martínez**. "A polarization-insensitive wide-band electric field sensing scheme using coherence modulation of light". IEEE Instrumentation and Measurement Technology Conference del 13 al 16 de mayo de 2012 en Graz, Australia. **1949-1952**.
62. Misael Santiago-Bernal, **Celso Gutiérrez-Martínez**, Joel Santos-Aguilar. "Optical transmission of video signals using pulse time modulated sub-carriers over optical delays carriers". 2012 IEEE midwest symposium on circuits and systems celebrado Boise, Idaho, EEUU del 5 al 8 de agosto de 2012.
63. **Celso Gutiérrez-Martínez**, Joel Santos-Aguilar. "Multiplexing microwave subcarriers on dispersive-channel radio over fiber systems". 2012 IEEE

Memorias Arbitradas Publicadas

International Topical Meeting on Microwave Photonics celebrado en Noordwijk, Netherlands del 11 al 14 de septiembre de 2012.

- 64.D. Aguirre-Aguirre, **F. S. Granados-Agustín**, B. Villalobos-Mendoza, M. E. Percino-Zacarías and A. Cornejo-Rodríguez. "Accuracy of the ReRRCA algorithm using the Ronchi test". Optics and Photonics Proc. of SPIE Vol. 8445, Optical and Infrared Interferometry III 84452B, doi: 10.1117/12.927232 celebrado en San Diego, CA del 12 al 16 de agosto de 2012.
- 65.E. Rueda-Soriano, **F.S. Granados-Agustín**, **A. Cornejo-Rodríguez**, Elizabeth Percino-Zacarías, P. Cebrian-Xochihuila, B. Canales Pacheco. "Point diffraction interferometer for measurement of the refraction index of a glass plate". Optics and Photonics, Interferometry XVI: Applications 84940, Proc. of SPIE Vol. 8494, doi: 10.1117/12.928889 celebrado en San Diego, CA. del 12 al 16 de agosto de 2012.
- 66.Rafael Izazaga-Perez, **Fermín S. Granados-Agustín**, Ma. Elizabeth Percino-Zacarías and Esperanza Carrasco-Licea. "Optical testing applied to a 6.5-meter mirror". Optical Fabrication and Testing (OF&T), (Optical Society of America celebrado en Monterrey, CA del 24 al 28 de junio de 2012, ISBN: 1-55752-947-7. JTU5A.6.
- 67.O. Pottiez, A. Martinez-Rios, D. Monzon-Hernandez, **B. Ibarra-Escamilla**, E. A. Kuzin, J. C. Hernandez-Garcia. "Dual-wavelength operation of continuous-wave and mode-locked erbium-doped fiber lasers". Laser Sources and Applications, Proc. of SPIE Vol. 8433, (2012). 843306.
- 68.R. I. Alvarez-Tamayo, M. Dúran-Sánchez, O. Pottiez, **B. Ibarra-Escamilla**, **E. A. Kuzin**. "Investigation of cavity loss adjustment between two wavelengths required for dual-wavelength laser generation". Photonics West 2012 Fiber Lasers IX: Technology, Systems, and Applications, Proc. of SPIE Vol. 8237, (2012) celebrado en San Francisco, CA. del 21 al 26 de enero de 2012. 823723.

Memorias Arbitradas Publicadas

69. O. Pottiez, A. Martínez-Ríos, D. Monzón-Hernández, G. Salceda-Delgado, J. C. Hernández-García, **B. Ibarra-Escamilla**, E. A. Kuzin. "Multiple continuous-wave and pulsed modes of a figure-eight fiber laser". International Laser Physics Workshop (LPHYS 12) celebrado en Calgary, Canada del 23 al 27 de julio de 2012.
70. González-García, **B. Ibarra-Escamilla**, E. A. Kuzin, F. Maya-Ordoñez, M. Durán-Sánchez, C. Deng, J. W. Haus, P. E. Powers. "Q-switched Er/Yb Double Clad Single Mode Fiber Laser". Proceeding of Annual Meeting of OSA, FiO, celebrado en Rochester, N. Y. USA del 13 al 18 de octubre de 2012. FTu1G.2.
71. D. Ramírez Martínez, M. M. Méndez Otero, M. L. Arroyo Carrasco, **M. D. Iturbe Castillo**. "Asymmetric collision of two bright solitons in a Kerr media". Nonlinear Photonics (Optical Society of America, Washington, DC, 2012), celebrado Colorado, E. U. del 17 al 22 de junio de 2012. JM5A.55.
72. **A. Jaramillo-Núñez**, M. Pérez Meza. "Searching early bone metastasis on plain radiography by using digital image processing". XII Mexican Symposium on Medical Physics, AIP Conf. Proc. 1494, 85 (2012); doi: 10.1063/1.4764606 celebrado en Oaxaca, México del 16 al 18 de marzo de 2012.
73. **Nikolai Korneev**, Eugene A. Kuzin, Balder Villagomez, Baldemar Ibarra Escamilla, Andres Gonzalez Garcia, Olivier M. Pottiez and Manuel Duran Sanchez. "Raman-induced polarization stabilization of vector solitons in circularly birefringent fibers". Conference Paper Frontiers in Optics (FiO). Nonlinear Fiber Optics celebrado en Rochester, N. Y. del 13 al 18 de octubre de 2012. (FTh1D.3).
74. S. A. Torres-Hurtado, B.M. Villegas-Vargas, **N. Korneev**, J. C. Ramírez-San-Juan, R. Ramos-García. "Optical trapping with photorefractive electric fields". *Optics and Photonics Proc. SPIE*. 8458, Optical Trapping and Optical Micromanipulation celebrado en San Diego, CA. del 12 al 16 de agosto de 2012.

Memorias Arbitradas Publicadas

- 75.M. Durán-Sánchez, **E. A. Kuzin**, **B. Ibarra-Escamilla**, R. I. Álvarez-Tamayo, A. González-García. "Laser de fibra con longitud de onda dual empleado como sensor". Proceeding of 8th Ibero-Americano Congress on sensorscelebrado en Puerto Rico del 16 al 19 de octubre 2012. 60.
- 76.M. Durán Sánchez, **E. Kuzin**, **B. Ibarra Escamilla**, A. González García. "Sensor de temperatura basado en un láser de fibra óptica". Proceeding of 8th Ibero-Americano Congress on Sensors celebrado en Puerto Rico del 16 al 19 de octubre 2012. 138.
- 77.Robert Keil, Armando Perez-Leija, **Hector Moya-Cessa**, Alexander Szameit, Demetrios, N. Christodoulides. "Observation of Bloch-like oscillations in Glauber-Fock oscillator lattices". Quantum Electronics and Laser Science Conference (QELS) celebrado en San José, CA. del 6 al 11 de mayo de 2012. QTh1E.2.
- 78.Armando Pérez-Leija, Robert Keil, **Hector Moya-Cessa**, Alexander Szameit, Demetrios N. Christodoulides. "Quantum state transformations by multiport array beam splitters". Quantum Electronics and Laser Science Conference (QELS) celebrado en San José, California del 6 al 11 de mayo de 2012. Novel Quantum Optical Effects, QM1E.
- 79.S. Toxqui-López, **A. Olivares-Pérez**, B. Pinto-Iguanero, A. Aguilar-Mora, I. Fuentes-Tapia. "PVA glue as a recording holographic medium". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 doi: 30.1117/12.906828 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 828102-1, 828102-6.
- 80.**A. Olivares-Pérez**, S. Toxqui-López, I. Fuentes-Tapia, M. Ortiz-Gutiérrez, G. Mellano-Villaseñor. "Photosensitive holographic material with a médium of fluorescent ink". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 doi: 10.1117/12.906936 celebrado en San Francisco California USA del 21 al 26 de enero de 2012. 828103-1, 828103-7.

Memorias Arbitradas Publicadas

81. M. J. Ordóñez-Padilla, **A. Olivares-Pérez**, V. Dorantes-García, R. Vallejo-Mendoza, I. Fuentes-Tapia. "Study of holograms made with saccharides and iron ions". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 doi: 10.1117/12.909018 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 828111-1, 828111-6.
82. M. J. Ordóñez-Padilla, **A. Olivares-Pérez**, **L. R. Berriel-Valdos**, M. Ortiz-Gutiérrez, J. F. Villa-Manríquez. "Analysis of Albumin Hologram". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 · doi: 10.1117/12.909129 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 828112-1, 828112-6 .
83. Gabriel Mellado-Villaseñor, Mauricio Ortiz-Gutiérrez, Mario Pérez-Cortés, Juan Carlos Ibarra-Torres, **Arturo Olivares-Pérez**, Santa Toxqui-López. "Interferometric measurement of refraction index of dye-doped photopolymer". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 doi: 10.1117/12.909309 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 828113-1, 828113-8.

Memorias Arbitradas Publicadas

- 84.R. Vallejo-Mendoza, **A. Olivares-Pérez**, N. Korneev, V. Dorantes-García and M. J. Ordóñez-Padilla. "The efficiency of holograms with registration nitrocellulose and FeCl₃". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 doi: 10.1117/12.909533 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 828114-1, 828114-7 .
- 85.B. Pinto-Iguanero, **A. Olivares-Pérez**, S. Toxqui-López, I. Fuentes-Tapia. "Study of the behavior of the diffraction efficiency of a function of thickness using holographic gratings as material registration with gum Arabic ammonium dichromate". SPIE 8281, Practical Holography XXVI: Materials and Applications, Hans I. Bjelkhagen, V. Michael Bove, Jr., Editors, CCC code: 0277-786X/12/\$18 doi: 10.1117/12.909549 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 828115-1, 828115-7.
- 86.José Fabián Villa-Manríquez, Mauricio Ortiz-Gutiérrez, Mario Pérez-Cortés, Juan Carlos Ibarra-Torres, **Arturo Olivares-Pérez**, Manuel Jorge Ordoñez-Padilla. "Characterization of a PDLC mixed with crystal violet dye". SPIE 8279, Emerging Liquid Crystal Technologies VII, Liang-Chy Chien, Editors, CCC code: 0277-786X/12/\$18 doi: 10.1117/12.909279 celebrado en San Francisco California, USA del 21 al 26 de enero de 2012. 827917-1, 827917-7.
- 87.J. P Padilla-Martinez, Darren Banks, **J. C. Ramirez-San-Juan**, R. Ramos-Garcia, G. Aguilar. "Generation of thermocavitation bubbles within a droplet". ILASS Americas, 24th Annual Conference on Liquid Atomization and spray Systems, celebrado en San Antonio Texas, USA del 20 al 23 de mayo de 2012.
- 88.A. Fuentes Garcia, M. C. Granados Luyandoa, M. H. Vazquez Nicolasb, Pere Roca i Cabarrocasc , **J. C. Ramirez-San-Juan**, **R. Ramos García**. "Optodielectrophoretic hologram recording in hybrid liquid crystals". Optics and Photonics, Liquid Crystals Devices; *Proc. SPIE*. 8475, XVI 84750X celebrado en San Diego, CA del 12 al 16 de agosto de 2012).

Memorias Arbitradas Publicadas

89. José R. Guzman-Sepulveda, Rene Dominguez-Cruz, **José J. Sánchez-Mondragón**, Daniel A. May-Arriola. "Curvature sensor based on a two-core optical fiber". CLEO Technical Conference San Jose Convention Center celebrado en San José, CA. del 6 al 11 de mayo de 2012. J-JW2A.116.
90. **A. Shcherbakov**, A. V. Hanessian de la Garza, V. Chavushyan, J. Campos Acosta. "Arrangement of an advanced acousto-optical processor for modeling the triple correlations of low-power optical pulse trains". Proceedings of SPIE , Photonics West Conference, LACE, Vol. 8240 celebrado en San Francisco, CA, USA del 21 al 26 de enero de 2012, San Francisco, CA, USA). 8240-1O-1–8240-1O-11.
91. **A. Shcherbakov**, A. V. Hanessian de la Garza, **V. Chavushyan**, S. A. Nemov. "A Multi-phonon light scattering and resolution of acousto-optical devices". Proceedings of SPIE , Photonics West Conference, LACE, Vol. 8240 celebrado en San Francisco, CA, USA del 21 al 26 de enero de 2012, San Francisco, CA, USA). 8240-1S-1 – 8240-1S-11.
92. **A. Shcherbakov**, A. Laskin, A. V. Hanessian de la Garza. "Apodization of the incident light beam by an optimized quasi_Gaussian profile shifted along an aperture of the acousto-optical cell with appreciable acoustic losses". The 2012 Photonics North Conference. Proceedings of SPIE, Vol. 8412 celebrado en Montreal, Canada del 6 al 8 de junio de 2012, 8412-1C-1 – 8412-1C-9.
93. **A. Shcherbakov**, **A. V. Hanessian de la Garza**, V. Chavushyan, **S. A. Nemov**. "Time-bandwidth product of the acousto-optical cell based on a TeO₂-crystal". The 2012 Photonics North Conference. Proceedings of SPIE, Vol. 8412 celebrado en Montreal, Canada del 6 al 8 de junio de 2012, 8412-1E-1 – 8412-1E-9 (2012).
94. **A. Shcherbakov**, A. V. Hanessian de la Garza, **V. Chavushyan**, J. Campos Acosta. "Triple-product acousto-optical processor for the astrophysical applications". The 2012 Photonics North Conference.

Memorias Arbitradas Publicadas

Proceedings of SPIE, Vol. 8412 celebrado en Montreal, Canada del 6 al 8 de junio de 2012, 8412-1F-1 – 8412-1F-8 (2012).

95. Estela López-Olazagasti, César Eduardo Hernández y del Callejo, Jorge Ibarra-Galitzia, Gustavo Ramírez-Zavaleta, **Eduardo Tepichín**. "Analysis of incidence of keratoconus in relatives of patients who underwent corneal transplant due to advanced keratoconus using the orbiscan ii topographic graphs". Eighth Symposium Optics in Industry, Edited by Eric Rosas, Norberto Arzate, Ismael Torres, Juan Sumaya, Proc. of SPIE, Vol. 8287, 828705 © 2011 SPIE CCC code: 0277-786/11/\$18 doi: 10.1117/12.906760.
96. Elizabeth López-Meléndez, Luis David Lara-Rodríguez, Estela López-Olazagasti, Bárbara Sánchez-Rinza, **Eduardo Tepichín-Rodríguez**. "Bicad: Breast image computer aided diagnosis for standard birads 1 and 2 in calcifications". CONIELECOMP 2012, Memorias en cd, IEEE catalog number: CFP12363-CDR, ISBN: 978-1-61284-1324-8.
97. Angel S. Cruz Félix, Sandra E. Balderas-Mata, Estela López-Olazagasti, **Eduardo Tepichín-Rodríguez**. "Comparison of refractive power maps from a reference surface: geometric versus Zernike power polynomials". SPIE Symposium on Optical Engineering+Applications Conference Applications of Digital Image Processing XXXIV, paper 8499-6, Date: Monday, 13 August 2012, Proceedings of SPIE Vol. 8449 (to be published), celebrado en San Diego, CA del 12 al 16 de agosto de 2012.
98. Marco A. Canchola, Estela López-Olazagasti, Gustavo Ramírez-Zavaleta, Jorge M. Ibarra Galitzia, **Eduardo Tepichín-Rodríguez**. "Graphical user interface (GUIDE) for the control of two methods of recovery profiles for tridimensional objects". SPIE Symposium on Optical Engineering+applications. Conference Applications of Digital Image Processing XXXIV, paper 8499-71, Date: Monday, 13 August 2012, Proceedings of SPIE Vol. 8499 celebrado en San Diego California del 12 al 16 de agosto de 2012.
99. Luis David Lara-Rodríguez, Elizabeth Lopez-Melendez, Jorge M. Ibarra Galitzia, Estela López-Olazagasti, **Eduardo Tepichín-Rodríguez**.

Memorias Arbitradas Publicadas

- “Reconstruction of tridimensional objects with two different textures using gaussian model”. SPIE Symposium on Optical Engineering+Applications Conference Applications of Digital Image Processing XXXIV, paper 8499-80, Date: Monday, 13 August 2012, Proceedings of SPIE Vol. 8499 celebrado en San Diego California del 12 al 16 de agosto de 2012,
100. Sandra E. Balderas-Mata, Luis G. Valdivieso Gonzalez, Gustavo Ramírez-Zavaleta, Estela López-Olazagasti, **Eduardo Tepichín-Rodríguez**. “An optimized adaptive optics experimental setup for in vivo retinal imaging”. SPIE Symposium on Optical Engineering+Applications Conference Applications of Digital Image Processing XXXIV, paper 8487-26, Date: Thursday, 16 August 2012, Proceedings of SPIE Vol. 8487 celebrado en San Diego, CA del 12 al 16 de agosto de 2012,
101. Anel Garza-Rivera, **Carlos G. Trevino-Palacios**, **Francisco J. Renero-Carrillo**. “Design of optical interconnects inspired in multi-aperture optics based in compound insect eyes”. SPIE Photonics Europe Conference 8428, Micro-Optics 2012 (2012);<http://dx.doi.org/10.1117/12.921697> celebrado en Bruselas, Belgica del 16 al 19 de abril de 2012.
102. Gerhard X. Ritter, Darya Chyzhyk, **Gonzalo Urcid**, Manuel Graña. “A novel lattice associative memory based on dendritic computing”. Hybrid Computational Intelligence and Lattice Computing for Image and Signal Processing 2. Hybrid Artificial Intelligent Systems, HAIS 2012., Springer Lecture Notes in Computer Science, Vol. 7209, Part II celebrado en Salamanca, España del al 28 al 30 de marzo de 2012. 2012491-502.
103. **Gonzalo Urcid**, Gerhard X. Ritter. “C-means clustering of lattice auto-associative memories for endmember approximation”. 2nd Workshop on hyperspectral image Processing: Intelligent Systems for Remote Sensing and High Performance Computing, Knowledge Based and Intelligent Engineering Systems celebrado en San Sebastian, España, KES 2012., September 2012.

Memorias Arbitradas Publicadas

104. Juan Carlos Valdiviezo-N., **Gonzalo Urcid**, Carina Toxqui-Q, Alfonso Padilla-V. "A comparison of autonomous techniques for multispectral image analysis and classification". Proceedings of SPIE Optics+Photonics 2012, Vol. 8499 celebrado en San Diego, CA. del 12 al 16 de agosto de 2012. 849920:1-10.
105. **Gonzalo Urcid**, Gerhard X. Ritter, Juan Carlos Valdiviezo-N. "Dendritic lattice associative memories for pattern classification". NABIC 2012 Fourt World Congress on Nature and Biologically Inspired Computing Proceedings of IEEE celebrado en México, D. F. del 5 al 9 de noviembre de 2012. 181-187.
106. E. Villanueva-Luna¹, **J. Castro-Ramos**, **S. Vazquez-Montiel**, A. Flores-Gil, C. M. Ortiz-Lima, J. A Delgado-Atencio. "Raman spectroscopy of blood in-vitro". Photonics West Optical Diagnostics and Sensing XII: Toward Point-of-Care Diagnostics; and Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement of Tissue IV, [Robert J. Nordstrom](#); [Gerard L. Coté](#), [Proceedings Vol. 8229](#), celebrado en San Francisco, CA. del 21 al 26 de enero de 2012. 82291D-1-82291D-7.
107. Beatriz Morales Cruzado, **Sergio Vázquez y Montiel**, José Alberto Delgado Atencio. "Optical properties in simulated human skin at a wavelength of 633 nm". Photonics West Diagnostics; and Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement of Tissue IV, [Robert J. Nordstrom](#); [Gerard L. Coté](#), [Proceedings Vol. 8229](#), celebrado en San Francisco, CA. del 21 al 26 de enero de 2012. 82291J-1-82291J-7.
108. José Alberto Delgado Atencio, Beatriz Morales Cruzado, **Sergio Vázquez y Montiel**. "Influence of air bubbles on the recovery of optical properties". Photonics West Diagnostics; and Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement of Tissue IV, [Robert J. Nordstrom](#); [Gerard L. Coté](#), [Proceedings Vol. 8229](#), celebrado en San Francisco, CA. del 21 al 26 de enero de 2012. 82291K-1-82291K-9.

Memorias Arbitradas Publicadas

109. J. R. Guzman-Sepulveda, R. Dominguez-Cruz, J. J. **Sánchez-Mondragón**, and D. A. May-Arrioja, "Curvature Sensor based on a Two-Core Optical Fiber," in CLEO: QELS-Fundamental Science, OSA Technical Digest (Optical Society of America, 2012), paper JW2A.116. <http://www.opticsinfobase.org/abstract.cfm?URI=QELS-2012-JW2A.116>. **CLEO**
110. J. R. Guzman-Sepulveda, R. Dominguez-Cruz, J. J. Sánchez-Mondragón, and D. A. May-Arrioja, "Curvature Sensor based on a Two-Core Optical Fiber," in CLEO: Applications and Technology, OSA Technical Digest (online) (Optical Society of America, 2012), paper JW2A.116. <http://www.opticsinfobase.org/abstract.cfm?URI=CLEO: A and T-2012-JW2A.116>, CLEO.
111. J. R. Guzman-Sepulveda, R. Dominguez-Cruz, J. J. Sánchez-Mondragón, and D. A. May-Arrioja, "Curvature Sensor based on a Two-Core Optical Fiber," in CLEO: Science and Innovations, OSA Technical Digest (online) (Optical Society of America, 2012), paper JW2A.116. <http://www.opticsinfobase.org/abstract.cfm?URI=CLEO: S and I-2012-JW2A.116>. CLEO.
112. J. E. Antonio-Lopez, D. A. May-Arrioja, P. LiKamWa, and J. J. Sánchez Mondragon, "Tunable Dual-Wavelength Erbium-Doped Fiber Ring Laser," in Frontiers in Optics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper FW3A.32. <http://www.opticsinfobase.org/abstract.cfm?URI=FiO-2012-FW3A.32>. **Frontiers in Optics**
113. G. Cardenas-Ortiz, A. Vázquez-Guardado, D. Ceballos, G. Lopez-Galmiche, D. A. May-Arrioja, and J. J. Sanchez-Mondragon, "Total internal reflection of photorefractive spatial solitons at a metallic interface," in Frontiers in Optics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper FW3A.24. <http://www.opticsinfobase.org/abstract.cfm?URI=FiO-2012-FW3A.24>. **Frontiers in Optics**

Memorias Arbitradas Publicadas

- 114.** M. A. Fuentes-Fuentes, J. R. Guzman-Sepulveda, J. J. Sanchez-Mondragon, W. Margulis, and D. A. May-Arrioja, "Liquid Core Multimode Interference Device for Temperature Sensing Applications," in Frontiers in Optics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper FM4H.5, <http://www.opticsinfobase.org/abstract.cfm?URI=FiO-2012-FM4H.5>, **Frontiers in Optics**
- 115.** A. Vázquez-Guardado, G. Lopez-Galmiche, I. De Leon, J. J. Sanchez-Mondragon, and R. W. Boyd, "Finite Lorentzian-Like Gain in the Analysis of Gain Assisted Slow Surface Plasmon-Polaritons," in Frontiers in Optics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper FTu3A.53, <http://www.opticsinfobase.org/abstract.cfm?URI=FiO-2012-FTu3A.53>, **Frontiers in Optics**
- 116.** A. Vázquez-Guardado, G. Lopez-Galmiche, I. De Leon, J. J. Sanchez-Mondragon, and R. W. Boyd, "Analysis of Gain Assisted Slow Surface Plasmon-Polaritons in a Symmetrically Cladded Metal Slab Structure," in Frontiers in Optics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper FTu3A.58, <http://www.opticsinfobase.org/abstract.cfm?URI=FiO-2012-FTu3A.58>, **Frontiers in Optics**
- 117.** N. Lozano, D. A. May-Arrioja, D. Romero-Antequera, J. C. Garcia-Melgarejo, O. Magana, J. J. Sanchez-Mondragon, and G. P. Agrawal, "Geometrical dependence of the coupling properties of hybrid Nanowire directional couplers," in Frontiers in Optics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper FTu3A.59, <http://www.opticsinfobase.org/abstract.cfm?URI=FiO-2012-FTu3A.59>, **Frontiers in Optics**

Memorias Arbitradas Publicadas

- 118.** J. R. Guzman-Sepulveda, J. J. Sanchez-Mondragon, M. Torres-Cisneros, J. A. Arredondo-Lucio, and D. A. May-Arrioja, "Multimode Interference Fiber Optic Vibration Sensor," in Frontiers in Optics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper FM4H.2, <http://www.opticsinfobase.org/abstract.cfm?URI=FiO-2012-FM4H.2>, **Frontiers in Optics**
- 119.** J. E. Antonio-Lopez, J. J. Sanchez-Mondragon, J. G. Murillo, P. LiKamWa, and D. A. May-Arrioja, "Thermo-optical Tuning of Erbium-Doped Fiber Ring Laser," in Latin America Optics and Photonics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper LS2A.4, <http://www.opticsinfobase.org/abstract.cfm?URI=LAOP-2012-LS2A.4>, **LAOP**
- 120.** V. I. Ruiz Perez, D. Lopez-Cortes, J. J. Sanchez-Mondragon, and D. A. May-Arrioja, "MMI Fiber Optic Temperature Sensor," in Latin America Optics and Photonics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper LS3B.4, <http://www.opticsinfobase.org/abstract.cfm?URI=LAOP-2012-LS3B.4>, **LAOP**
- 121.** N. Lozano-Crisostomo, D. A. May-Arrioja, M. Torres-Cisneros, J. A. Andrade-Lucio, G. P. Agrawal, and J. J. Sanchez-Mondragon, "Nanowires geometry dependence of coupling properties of a hybrid directional coupler," in Latin America Optics and Photonics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper LM2A.28, <http://www.opticsinfobase.org/abstract.cfm?URI=LAOP-2012-LM2A.28>, **LAOP**
- 122.** D. L. Romero, N. Lozano-Crisostomo, G. López-Galmiche, and J. J. Sanchez-Mondragon, "Resonance Characteristics of Layered Cylinder Resonator," in Latin America Optics and Photonics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper



Memorias Arbitradas Publicadas

LM2A.30. <http://www.opticsinfobase.org/abstract.cfm?URI=LAOP-2012-LM2A.30> , **LAOP**

123. A. Vázquez-Guardado, G. Lopez-Galmiche, I. De Leon Arizpe, R. Paez-López, M. Torres-Cisneros, and J. J. Sanchez-Mondragon, "Slow Surface Plasmon-Polaritons in a Metal-Dielectric Structure Incorporating a Lorentzian Gain Medium," in Latin America Optics and Photonics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper LM2A.27. <http://www.opticsinfobase.org/abstract.cfm?URI=LAOP-2012-LM2A.27>, **LAOP**
124. G. Lopez-Galmiche, A. Vázquez-Guardado, D. L. Romero Antequera, S. Murugka, and J. J. Sanchez-Mondragon, "Analysis of Extrinsic Losses in a Corrugated Photonic Crystal Waveguide," in Latin America Optics and Photonics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper LM2A.29. <http://www.opticsinfobase.org/abstract.cfm?URI=LAOP-2012-LM2A.29>, **LAOP**
125. J. C. Garcia-Melgarejo, C. Stroud, J. J. Sanchez-Mondragon, and O. S. Magaña-Loaiza, "The Interaction of a two-level Atom With the Electromagnetic Field in a Cross Cavity," in Latin America Optics and Photonics Conference, OSA Technical Digest (online) (Optical Society of America, 2012), paper LS2B.3. <http://www.opticsinfobase.org/abstract.cfm?URI=LAOP-2012-LS2B.3>, **LAOP**
126. J. G. Vera-Dimas ; M. Tecpoyotl-Torres ; S. E. Martínez-Fabián ; J. Escobedo-Alatorre ; L. Cisneros-Villalobos, et al. "High-precision semi-spherical meter of two degrees of freedom", SPIE; <http://dx.doi.org/10.1117/12.930159>, **SPIE**



Memorias Arbitradas Publicadas

127. N. Lozano Crisóstomo, J. J. Sánchez Mondragón, D. A. May Arrioja, R. Páez López, "Nanowires geometry dependence of coupling properties of a hybrid directional coupler", LV CONGRESO NACIONAL DE FÍSICA (SMF 2012), sesión 2MG16. http://www.cio.mx/~memorias/PDF/FO_4.pdf, SMF

Nacional

128. J. Medina Márquez, Carlos Zuñiga Islas, Sandra Balderas Mata. "Aritmética cromática". IX Encuentro: Participación de la Mujer en la Ciencia celebrado en León, Guanajuato del 16 al 18 de mayo de 2012, memorias en extenso, ISBN 978-607-95228-3-4; Sesión 3.
129. José Alfredo Torres-Fórtiz, Jacobo Meza-Pérez, Celso Gutiérrez-Martínez. "Capacidades de diseño, realización y caracterización de módulos de microondas en el INAOE". 2do. Congreso Nacional y 1er Latinoamericano de Ciencia y Tecnología Aeroespacial", San Luis Potosí, S. L. P., 17-21 de septiembre de 2012.
130. Adolfo Morales-Díaz, Celso Gutiérrez-Martínez, José Alfredo Torres-Fórtiz y Jacobo Meza-Pérez. "Realización y caracterización de un oscilador de microondas en banda X". 2do. Congreso Nacional y 1er Latinoamericano de Ciencia y Tecnología Aeroespacial", San Luis Potosí, S. L. P., 17-21 de septiembre de 2012.
131. Jacobo Meza-Pérez, **Celso Gutiérrez-Martínez**, Gustavo Martínez Escalante, José Alfredo Torres-Fórtiz. "Receptor a 90 GHz con potenciales usos para radiometría terrestre y satelital". 2do. Congreso Nacional y 1er Latinoamericano de Ciencia y Tecnología Aeroespacial", San Luis Potosí, S. L. P., 17-21 de septiembre de 2012.
132. B. A. Villagómez Bernabe, E. A. Kuzin, B. Ibarra-Escamulla, N. Korneev. "Estudio sobre la influencia de birrefringencia circular y dispersión Raman

Memorias Arbitradas Publicadas

estimulada en el funcionamiento del interferómetro Sagnac". XXV Reunión Anual de Óptica celebrado en Morelia, Michoacán del 8 al 12 de octubre de 2012. OF1-RAO-2012-1.

133. **N. Korneev**, Y. M. Torres. "Sistema de memoria óptica basado en la biestabilidad de patrones ópticos transversales del vapor de rubidio". XXV Reunión Anual de Óptica celebrado en Morelia, Michoacán del 8 al 12 de octubre de 2012. FO3-RAO-2012-1.
134. Elizabeth López Meléndez, Luis David Lara Rodríguez, Estela López Olazagasti, Jorge Ibarra Galitzia, Gustavo Ramírez Zavaleta, **Eduardo Tepichín Rodríguez**. "Asistente para el diagnóstico de calcificaciones en mastografías con patología benigna birads". IX Encuentro: Participación de la Mujer en la Ciencia celebrado en León, Guanajuato del 16 al 18 de mayo de 2012, memorias en extenso, ISBN 978-607-95228-3-4; Sesión 3. S3-MCS23.
135. Marco Antonio Canchola Chávez, Estela López Olazagasti, Gustavo Ramírez Zavaleta, Jorge Ibarra Galitzia, **Eduardo Tepichín Rodríguez**. "Interfaz gráfica de usuario (GUI) para el control de dos métodos de proyección de franjas". Congreso de Metrología, SOMI XXVII celebrado en Culiacan Sinaloa del 29 al 31 de octubre de 2012. 84-MC.
136. **Carlos Gerardo Treviño-Palacios**, Oscar Javier Zapata-Nava, Elsi V Mejía-Uriarte, Naser Qureshi, Oleg Kolokolstev. "Solid State Dual Wavelength Continuous Wave Laser". XXV Reunión Anual de Óptica, Carlos G Treviño, Maximino Avendaño, Ricardo Legarda, Agustín Santiago editores (Academia Mexicana de Óptica, 2012) http://www.cio.mx/~memorias/MEMORIAS/FO_6.htm celebrado en Morelia, Michoacán del 8 al 12 de octubre de 2012. FO-6.

Electrónica

Internacional

137. **Joel Molina**, **Rafael Ortega**, **Wilfrido Calleja**, Pedro Rosales, Carlos Zuniga, and Alfonso Torres. "Performance of a MOHOS-type Memory by

Memorias Arbitradas Publicadas

Using Different Tunneling Oxide Thickness”, IBERCHIP 2012, México, febrero 29-march 2, pp. 26-29, 2012.

138. H. E. Martínez-Mateo, F.J. De la Hidalga-W, A. Torres, C. Zúñiga, M. Linares, J. Molina, M. Moreno, P. Rosales, C. Reyes, L. Hernández, L. Niño de Rivera, and **Wilfrido Calleja**, Prospects for MEMS on High-index Silicon Combining Bulk Micromachining and PolyMEMS-INAOE Technology, presented in 2012 Argentine School of Micro-Nanoelectronics, Technology and Applications, EAMTA-CAMTA, 3-11 de Agosto 2012, Universidad Nacional de Córdoba, Argentina, págs. 101-105. IEEE Catalog Number CFP 1254E-CDR.
139. Ruben Vazquez-Medina 1,2, José Luis Del-Río-Correa3, César Enrique Rojas-López1, **José Alejandro Díaz-Méndez** Digital Chaotic Noise using Tent Map without Scaling and Discretization Process, HAIS'12. International Conference on Hybrid Artificial Intelligence Systems, Salamanca, Spain, Marzo of 2012.
140. M. Huixtlaca-Quintana, J.M. Rocha-Perez, **Alejandro Díaz Sánchez**, C. Muñoz-Montero, “Circuito para la Extracción de Raíz Fraccional Usando Transistores en Inversión Débil,” Memorias del XVIII Workshop Iberchip, Febrero del 2012, Playa del Carmen, Mexico.
141. Salvador Arroyo Díaz, **Alejandro Díaz Sánchez**, A.Z. Escudero Uribe, “Architecture for myoelectric features extraction by H.O.S. of four sMES channels,” Memorias del XVIII Workshop Iberchip, Febrero del 2012, Playa del Carmen, Mexico.
142. D.E. Cortés Udave, J. Ogrodzki, **Miguel Angel Gutiérrez de Anda**, “A study of the parallel algorithm for large-scale DC simulation of nonlinear systems,” in Photonics Applications in Astronomy, Communications, Industry and High-Energy Physics Experiments 2012, R. Romaniuk and K. Kulpa, Eds, Proceedings of SPIE, vol. 8454, 84541F. DOI:10.1117/12.2000011.
143. D.E. Cortés Udave, J. Ogrodzki, **Miguel Angel Gutiérrez de Anda**, “DC simulator of large-scale nonlinear systems on parallel processors,” in Photonics Applications in Astronomy, Communications, Industry and

Memorias Arbitradas Publicadas

High-Energy Physics Experiments 2012, R. Romaniuk and K. Kulpa, Eds, Proceedings of SPIE, vol. 8454, 84541G. DOI:10.1117/12.2000012.

144. Ma. del Rocio de Jesus Ventura, Isaac Esau Jimenez Benitez, **Luis Hernandez-Martinez**, Monico Linares-Aranda, "Implementación de una celda CNN digital en FPGA para la aplicación de detecciones de bordes", Proceedings of the XVIII International IBERCHIP workshop. Playa del Carmen, Mexico, 2012. ISSN: 977-2177-128009.

145. Gerardo Molina Salgado and **Gordana Jovanovic Dolecek**, "Non-recursive Comb-Decimation Filter With an Improved Alias Rejection, " *3rd Latin American Symposium on Circuits and Systems (LASCAS 2012)*, to be held in Playa del Carmen, Mexico, from February 29 to March 2, 2012. (Published by IEEEExplore, 2012, Digital Object Identifier: [10.1109/LASCAS.2012.6180305](https://doi.org/10.1109/LASCAS.2012.6180305), pp1-4).

146. D. Troncoso, **G. Jovanovic Dolecek**, M. Laddomada, "Design of Multiplierless Linear-Phase Comb Corrector Filters for Multirate Applications, " *3rd Latin American Symposium on Circuits and Systems (LASCAS 2012)*, to be held in Playa del Carmen, Mexico, from February 29 to March 2, 2012. (Published by IEEEExplore, 2012, Digital Object Identifier: [10.1109/LASCAS.2012.6180305](https://doi.org/10.1109/LASCAS.2012.6180305), pp1-4).

147. Eric M. Silva C., **G. Jovanovic Dolecek**, and Fredric J. Harris, "Cell Search in Long Term Evolution Systems: Primary and Secondary Synchronization, " *3rd Latin American Symposium on Circuits and Systems (LASCAS 2012)*, to be held in Playa del Carmen, Mexico, from February 29 to March 2, 2012. (Published by IEEEExplore, 2012, Digital Object Identifier: [10.1109/LASCAS.2012.6180305](https://doi.org/10.1109/LASCAS.2012.6180305), pp1-4).

148. **Gordana Jovanovic Dolecek**, and **Gerardo Molina Salgado** "Low Power Non-Recursive Comb-Based Decimation Filter Design, " *5th International IEEE Symposium on Communications, Control, and Signal Processing, (ISCCSP 2012)* Rome, Italy from May 2-4, 2012.

149. David Ernesto Troncoso Romero, Miriam Guadalupe Cruz Jimenez, **Gordana Jovanovic Dolecek**, "A New Pipelined-Interleaved Structure

Memorias Arbitradas Publicadas

- for FIR Hilbert Transformers Based on Frequency Transformation Technique,” 5th International IEEE Symposium on Communications, Control, and Signal Processing, (ISCCSP 2012) Rome, Italy from May 2-4, 2012.
150. E. M. Silva Cruz, F. Harris, and **G. Jovanovic Dolecek**, A Novel Preamble and Synchronization Algorithm based on a weighted CAZAC-Shapiro Rudin Sequence for OFDM Systems, *IEEE CONCAPAN 2012*, Managua, Nicaragua.
151. **Gordana Jovanovic Dolecek** and Alfonso Fernandez-Vazquez, “Passband-Droop Compensation of Modified Non-Recursive Comb Filter” IEEE Conference on Control, Systems & Industrial Informatics (ICCSII 2012), Bandung Indonesia. (Published by IEEE, IEEE Catalog CFP1236S-CDR, ISBN:978-1-4673-1021-5, pp.155-159).
152. **Gordana Jovanovic Dolecek** and Alfonso Fernandez-Vazquez, “Sharpening minimum-phase filters” International Conference on Mathematical Modeling in Physical Sciences, IC-MSQUARE, Budapest, September 2012.
153. Fernandez-Vazquez, and **Gordana Jovanovic Dolecek**, “Analysis and Design of Offset QPSK Using Redundant Filter Banks,” Accepted for *International Conference on Mathematical Modeling in Physical Sciences, IC-MSQUARE*, Budapest, September 2012.
154. **Gerardo Molina Salgado** and **Gordana Jovanovic Dolecek**, “Modified Comb Nonrecursive Structure,” IEEE MWSCAS 2012, Boise, Idaho, USA, August 2012. (Published by IEEE, IEEE Catalog CFP12MID-USB, ISBN:978-1-4673-2525-7, Digital Object Identifier: [978-1-4673-2493-9/12](https://doi.org/10.1109/MWSCAS12.2012.6393912), pp.369-372).
155. David Ernesto Troncoso Romero, *Miriam Guadalupe Cruz Jimenez*, **Gordana Jovanovic Dolecek**, “Design of FIR Hilbert Transformers Using a Combined Frequency Response Masking/Frequency Transformation Approach”, *IEEE MWSCAS 2012*, Boise, Idaho, USA,

Memorias Arbitradas Publicadas

August 2012. (Published by IEEE, IEEE Catalog CFP12MID-USB, ISBN:978-1-4673-2525-7, Digital Object Identifier: 978-1-4673-2527-1/12 pp.960-963).

156. **Gordana Jovanovic Dolecek** and Alfonso Fernandez-Vazquez, "On Nonrecursive Rotated Comb Filter", *IEEE MWSCAS 2012*, Boise, Idaho, USA, August 2012. (Published by IEEE, IEEE Catalog CFP12MID-USB, ISBN:978-1-4673-2525-7, Digital Object Identifier: 978-1-4673-2527-1/12 pp.474-477).
157. **Gordana Jovanovic Dolecek** and Gerardo Molina Salgado On Efficient Non-Recursive Comb Decimator Structure for $M=3^n$, *The Fourth International Conference on Communications and Electronics (ICCE'12)*, Hue City Vietnam, Aug 2012.(ISBN: 978-1-4673-2490-8, Published by IEEEExplore, 2012, IEEE Catalog Number: CFP1216B-PRT, Digital Object Identifier: 978-1-4673-2527-1/12 pp.1128-1131)
158. Francisco Temoltzi Avila, **Andrey Kosarev**, **Ismael Cosme**, Mario Moreno, P. Roca i Cabarrocas, "Temperature dependence of current-voltage characteristics in $\mu\text{c-Si:H}$ and pm-Si:H PIN structures", *Mater. Res. Soc. Symp. Proc. Vol. 1426*, San Fco. California, April 9-13, 2012.
159. O. González-Díaz, R. Torres-Torres, **M. Linares-Aranda**, "The influence of interconnection length on expanded non-resonant ring oscillators, "Proceedings of the IEEE Third Latin American Symposium on Circuits and Systems (LASCAS), pp. 1-4, Mar. 2012.
160. **J. Molina**, R. Ortega, W. Calleja, P. Rosales, C. Zuniga and A. Torres, "Performance of a MOHOS-type Memory by Using Different Tunneling Oxide Thickness", *Proceedings of the IBERCHIP XVIII Workshop, IBERCHIP-2012*, pp. 26-29 (2012).
161. **J. Molina**, C. Zuniga, W. Calleja, P. Rosales, A. Torres and A. Herrera, "ALD of ultra-thin HfO_2 films on Si substrates having different silanol Si-OH densities after chemical oxidation using H_2O_2 ", *Proceedings of the 12th International Conference on Atomic Layer Deposition, (ALD2012)*. June 17th-20th, Dresden, Germany (2012).

Memorias Arbitradas Publicadas

162. **J. Molina**, W. Calleja, P. Rosales, C. Zuniga, F.J. Hidalgo and A. Torres, "Performance of a MOHOS-type Memory using HfO_2 Nanoparticles as Charge Trapping Layer and Different Tunneling Oxide Thickness", International Union of Materials Research Societies – International Conferences on Electronic Materials (IUMRS-ICEM 2012). September 23rd-28th, 2012. Yokohama, Japan. (July 2012).
163. P. Roca i Cabarrocas, K.H. Kim, R. Cariou, M. Labrune, E.V. Johnson, **Mario Moreno Moreno**, A. Torres Rios, S. Abolmasov, and S. Kasout, "Low Temperature Plasma Synthesis of Nanocrystals and their Application to the Growth of Crystalline Silicon and Germanium Thin Films", **Mater. Res. Soc. Symp. Proc. Vol. 1426**, San Fco. California, April 9-13, **2012**.
164. G. Rosas, **R. Murphy**, W. Moreno, "Novel Fabrication Techniques for RF-MEMS Devices", Proceedings of the XVIII International IBERCHIP Workshop, Playa del Carmen, México, febrero 29-Marzo 2 2012, pp. 140-144.
165. G. Álvarez, **R. Murphy**, R. Torres, "Accurate Modeling to Characterize the Distributed Substrate Effects in SiGe HBTs "Proceedings of the XVIII International IBERCHIP Workshop, Playa del Carmen, México, febrero 29-Marzo 2 2012, pp. 151-154.
166. F. Zárate, G. Álvarez, R. Torres, **R. Murphy**, "Extraction Methodology of the Substrate Parasitic Network of an RF-MOSFET with Separate Substrate DC Connection", Proceedings of the XVIII International IBERCHIP Workshop, Playa del Carmen, México, febrero 29-Marzo 2 2012, pp. 155-159.
167. **Roberto Murphy Arteaga**, R. Jordán, W. Moreno, F. Guarín, D. García, A. Maury, P. Gadani, Overhauling Engineering Education in Latin America, Memoria Técnica del World Engineering Education Forum (WEEF 2012), Buenos Aires, Argentina, octubre 15-18, 2012, pp. 1-8.

Memorias Arbitradas Publicadas

168. **R. Jordán**, W. Moreno, **Roberto Murphy Arteaga**, D. García, M. De Giusti, ISTECS's Impact on the Development of Science and Technology Education in Latin America, Memoria Técnica del World Engineering Education Forum (WEEF 2012), Buenos Aires, Argentina, octubre 15-18, 2012, pp. 1-9.
169. **H. Lobato-Morales**, Jim S. Sun, **A. Corona-Chavez**, T. Itoh, **J. L. Olvera-Cervantes**. UWB and WiLAN Microstrip Diplexer for Differential-Mode Operation. IEEE International Microwave Symposium 2012 (IMS-2012). Presentado Junio de 2012. Montreal Canada.
170. Richard Torrealba Melendez, **Jose Luis Olvera Cervantes** and Alonso Corona Chavez. Experimentos para formación de imágenes por medio de ondas electromagnéticas en el rango de microondas y sistemas de radar de banda ancha. VI Congreso Internacional de Ingeniería Física. Presentado el 12 de Junio del 2012. México D.F.
171. Johanny Escobar-Peláez, **Jose-Luis Olvera-Cervantes**, Ignacio E. Zaldívar-Huerta, Alonso Corona-Chávez, Alejandro García-Juárez, Jorge Rodríguez-Asomoza. Novel Microwave Bandpass Filter with Compact Size and Good Out-of-band Performance for Microwave Photonic Filter Applications. 55th Int'l Midwest Symposium on Circuits & Systems. Boise Idaho. Agosto de 2012.
172. Obed Carrera León, **Juan Manuel Ramirez Cortés**, Vicente Alarcon-Aquino, Mary Baker, Pilar Gomez-Gil, David D'Croz-Baron, "A Motor Imagery BCI Experiment using Wavelet Analysis and Spatial Patterns Feature Extraction", 2012 IEEE Workshop on Engineering Applications, Bogotá, Colombia, May 2-4, 2012.
173. V. Jimenez-Fernandez, **C. Reyes-Betanzo**, and Z.J. Hernandez-Paxtian, Piecewise-linear algorithm applied to R^2 experimental plasma etching process, *Electrochemical Society Transactions*, 49 (1), pp. 289 – 296, 2012. ISBN: 978-1-56677-990-6.

Memorias Arbitradas Publicadas

174. Miguel A. Domínguez, **Pedro Rosales**, Alfonso Torres and Mario Moreno. "Development of Low-Temperature Ambipolar a-SiGe:H Thin-Film Transistors Technology" Mater. Res. Soc. Symp. Proc. Vol. 1426 © (5 pages) 2012 Materials Research Society. ISSN: 1946-4274.
175. **Mario Moreno, Alfonso Torres, Roberto Ambrosio, Pedro Rosales, Andrey Kosarev, Claudia Reyes, Carlos Zuniga, Wilfrido Calleja, Francisco J. de la Hidalga Wade** and Miguel A. Dominguez, "Uncooled microbolometers with hydrogenated amorphous germanium-silicon films: Different device configurations and improvements on the thermosensing films", Vol.1437 - Symposium L – Group IV Photonics for Sensing and Imaging (2012).
176. P.M. Maya-Hernández, **M.T. Sanz-Pascual**, B. Calvo-López, "A 1.8 V-0.18 μ m CMOS Lock-In Amplifier for Portable Applications", Proc. of the 2012 IEEE International Symposium on Circuits and Systems (ISCAS'2012), pp. 668-671, 2012. ISSN: 978-1-4673-0219-7.
177. E. Guerrero-Rodríguez, **M.T. Sanz-Pascual, J.Molina-Reyes**, N. Medrano, B. Calvo, D. Antolín, "Programmable Calibration Circuit for a MIM-ISFET Device", Proc. of the 2012 IEEE International Instrumentation and Measurement Technology Conference (I2MTC'12), pp. 1819-1822, 2012. ISSN: 978-1-4577-1772-7.
178. P.M. Maya-Hernández, **M.T. Sanz-Pascual**, B. Calvo, D. Antolín, "A CMOS Low-Power Lock-In Amplifier", Proc. of the 2012 IEEE International Instrumentation and Measurement Technology Conference (I2MTC'12), pp. 1804-1807, 2012. ISSN: 978-1-4577-1772-7.
179. E. Guerrero-Rodríguez, **M.T. Sanz-Pascual, J. Molina-Reyes**, N. Medrano-Marqués, B. Calvo-López, "A Digitally Programmable Calibration Circuit for Smart Sensors", Proc. of the 3rd IEEE Latin American Symposium on Circuits and Systems (LASCAS'12), 2012. ISSN: 978-1-4673-1208-0.
180. H. Fuentes, D. García-Romeo, N. Medrano, B. Calvo, P.A. Martínez, C. Gimeno, **M.T. Sanz, M. Moreno, A. Torres**, "A SiGe Microbolometer

Memorias Arbitradas Publicadas

Interface for Low-Power Microcontrolled Applications”, Proc. of the 3rd IEEE Latin American Symposium on Circuits and Systems (LASCAS’12), 2012. ISSN: 978-1-4673-1208-0.

181. **L.C. Álvarez-Simón, M.T. Sanz-Pascual**, “A Low-Power Low-Voltage CMOS Resistance-to-Period Converter”, Proc. of the 55th IEEE International Midwest Symposium on Circuits and Systems (MWSCAS’12), pp. 610-613, 2012. ISSN: 978-1-4673-2527-1.
182. Carlos Hernández, **Arturo Sarmiento-Reyes** and Héctor Vázquez-Leal, “Existence of Multiple Operating Points in Memristive Circuits”, 3rd IEEE LASCAS -Latin American Symposium on Circuits and Systems, Quintana Roo, México, 2012. ISBN: 978-1-4673-1206-6.
183. Francisco Castro-González, **Arturo Sarmiento-Reyes** and Francisco Zamudio-Saenz. “Effects of Single-Electron Transistor Parameter Variations on Hybrid Circuits Design”, 3rd IEEE LASCAS -Latin American Symposium on Circuits and Systems, Quintana Roo, México, 2012. ISBN: 978-1-4673-1206-6.
184. Roberto Castañeda-Sheissa, Héctor Vázquez-Leal, Uriel Filobello-Niño, **Arturo Sarmiento-Reyes** and **Luis Hernández-Martínez**, “Método modificado de hiperesferas aplicado a homotopías biparamétricas: simulación de circuitos con transistores bipolares”, IBERCHIP, Playa del Carmen, Quintana Roo, México, pp. 160-163, 2012. ISSN: 977-2177-128009.
185. Gabriela A. Rodríguez, **Arturo Sarmiento** and Edmundo Gutiérrez, “A Schrödinger-Poisson CAD Tool for the Calculation of Tunneling Through Different Gate-Oxide Potential Profiles”, IBERCHIP, Playa del Carmen, Quintana Roo, México, pp. 160-163, 2012. ISSN: 977-2177-128009.
186. **E. Tlelo-Cuautle**, C. Sanchez-Lopez, S. X.-D. Tan, Symbolic Nodal Analysis of Analog Integrated Circuits Using Pathological Elements, IEEE NEWCAS, Special Session: Latest CAD Techniques for Analog/Mixed-Signal Circuit Design Automation, pp. 161-164, ISBN: 978-1-4673-0859-5, Montreal, June 17-20, 2012.

Memorias Arbitradas Publicadas

187. A. Sallem, M. Fakhfakh, **E. Tlelo-Cuautle**, M. Loulou, On the Optimal Design of CC-Based Active Filters, IEEE International conference on Design & Technology of Integrated Systems in nanoscale era (DTIS), Gammarth, Tunisia, May 16-18, 2012.
188. Santiago Rodriguez-Chavez, **Esteban Tlelo-Cuautle**, Adolfo A. Palma-Rodriguez and Sheldon X.-D. Tan, Symbolic DDD-based tool for the computation of noise in CMOS analog circuits, International Caribbean Conference on Devices, Circuits and Systems (ICCDCS), ISBN: 978-1-4577-1117-6, Playa del Carmen, México, March 14-17, 2012.
189. Adolfo A. Palma-Rodriguez, **Esteban Tlelo-Cuautle**, Santiago Rodriguez-Chavez, and Sheldon X.-D. Tan, DDD-Based Symbolic Sensitivity Analysis of Active Filters, International Caribbean Conference on Devices, Circuits and Systems (ICCDCS), ISBN: 978-1-4577-1117-6, Playa del Carmen, México, March 14-17, 2012.
190. Jairo Plaza Castillo, **Alfonso Torres Jácome**; “Activación rápida de obleas de Si <100> tipo n con películas SOD de boro”; en Nanotecnología para Energías en Latinoamérica, edited by E. Barea (SEFIN, Castelló), 2012, ISBN: 978-84-940189-9-2, pp. 33-36.
191. G. Álvarez-Botero, **Reydezel Torres Torres** and R. Murphy-Arteaga, “Modeling the Distributed Physical Effects in the Intrinsic Base of SiGe HBTs Using Transmission Line Concepts”, *Proc. of the 17th International Conference on Simulation of Semiconductor Processes and Devices (SISPAD)*, pp. 320–323, Denver, USA, Sep. 5-7, 2012.
192. M. Schauer, G. Romo, **R. Torres-Torres**, C. Nwachukwu, and S.-W. Beak, “Understanding and Mitigation of Fiber Weave Effects in Striplines”, DesignCon 2012, Feb. 2012.
193. A.García-Juárez, **I. E. Zaldívar-Huerta**, J. Rodríguez-Asomoza, R. Gómez-Colín, A. G Rojas-Hernández, D. Berman-Mendoza, R. Gómez-

Memorias Arbitradas Publicadas

Fuentes and A. Vera Marquina, "Analog Photonic Link by Using DFB lasers Operated in the Low Laser Threshold Current Region and External Modulation", SPIE Photonics West, January 21-26 2012, San Francisco, California, USA. Proceedings of SPIE Vol. 8282 82820-1.

Nacional

194. **J. Alejandro Díaz-Méndez**, Teresa Rojas Torres, Luis Niño de Rivera y Oryazabal, Detección de la Posición de Móviles Utilizando Arreglos Lineales de Sensores, XXIII IEEE ROCC 2012, Noviembre de 2012, Acapulco, México.
195. Salvador Arroyo Diaz, Jose Pedro Sanchez Santana, Joel Pozas Osorio, **Alejandro Diaz Sanchez**, "Arquitectura Kalman para Sistema Seguimiento de Objetos Basados en Imágenes," Proceedings del Electro 2012, Chihuahua, Chihuahua, Octubre 2012.
196. **Martinez-Carballido**, J.; Morales-Velazquez, M.; "Using adaptive threshold to detect pedestrians crossing on a street for Advanced Driver Assistance Systems," Electrical Communications and Computers (CONIELECOMP), 2012 22nd International Conference on, vol., no., pp.179-182, 27-29 Feb. 2012
doi: 10.1109/CONIELECOMP.2012.6189905 ISBN: 978-1-61284-1324-8.
197. **Martinez-Carballido**, J.; Perez-Aguilar, E.; "Detecting automobiles on real street environment for Advanced Driver Assistance Systems by its projected shadow," Electrical Communications and Computers (CONIELECOMP), 2012 22nd International Conference on, vol., no., pp.108-112, 27-29 Feb. 2012
doi: 10.1109/CONIELECOMP.2012.6189891 ISBN: 978-1-61284-1324-8.
198. **Bermudez-Gomez**, C.R.; Enriquez-Caldera, R.; **Martinez-Carballido**, J.; "Chirp signal detection using the Duffing oscillator," Electrical Communications and Computers (CONIELECOMP), 2012 22nd International Conference on , vol., no., pp.344-349, 27-29 Feb. 2012 doi: 10.1109/CONIELECOMP.2012.6189936 ISBN: 978-1-61284-1324-8.

Memorias Arbitradas Publicadas

199. Chavez-Barranco, S.; **Enriquez-Caldera, R.**; **Martinez-Carballido, J.** "Mathematical concepts on Classical Mechanics using computational methods," *Electrical Communications and Computers (CONIELECOMP), 2012 22nd International Conference on*, vol., no., pp.294-299, 27-29 Feb. 2012, oi: 10.1109/CONIELECOMP.2012.6189927 ISBN: 978-1-61284-1324-8.

200. **Roberto Murphy Arteaga**, R. Jordán, W. Moreno, D. García, La Situación de la Ingeniería en América Latina, Memoria Técnica del XXVI Congreso Nacional de Posgrado, Morelia, Michoacán, México, septiembre 26-28, 2012, pp. 1-10.

201. Angel Colin, Richard Torrealba y **José Luis Olvera Cervantes**, Una antena compacta de 2.4 GHz acoplada con lente para aplicaciones en redes de área local inalámbrica (WLAN). SOMI XXVII Congreso de Instrumentación. Culiacán Sinaloa del 21 al 31 de Octubre de 2012.

202. Irving Aaron Cifuentes González, **Juan Manuel Ramírez Cortés**, Rubén Alejos Palomares, Silvia Conforto, "Lower limb EMG Signal Classification using Discrete Wavelet Transform and Hilbert-Huang Transform", SOMI XVII Congreso de Instrumentación, Culiacán, Sinaloa, México, 29-31 de octubre, 2012

203. Erick Rivera-Juarico, **Juan Manuel Ramírez-Cortés**, V. Alarcon-Aquino, J. Escamilla-Ambrosio, "Design and Implementation of the Discrete Wavelet Transform on an FPGA Platform to Process Data Sets of up to Three Dimensions", In Proceedings of the 22nd IEEE International Conference on Electronics, Communications, and Computers, CONIELECOMP 2012, Puebla Mexico, March 2012.

204. David D´Croz-Baron, **Juan Manuel Ramírez-Cortés**, Mary Baker, V. Alarcon-Aquino, **Obed Carrera León**, "A BCI Motor Imagery Experiment Based on Parametric Feature Extraction and Fisher Criterion", In Proceedings of the 22nd IEEE International Conference on Electronics, Communications, and Computers, CONIELECOMP 2012, Puebla Mexico, March 2012.



Memorias Arbitradas Publicadas

205. Mónica Macías Perez, Georgina Flores Becerra, **E. Tlelo-Cuautle**, Estudio comparativo de operadores evolutivos para la síntesis de seguidores de voltaje, XXV Congreso Nacional y XI Congreso Internacional de Informática y Computación ANIEI (CNCIIC-ANIEI), 24-27 Octubre, Ciudad de México, Distrito Federal, México 2012.
206. Mónica Macías Perez, **E. Tlelo Cuautle**, Miguel A. Duarte Villaseñor, Georgina Flores Becerra, Comparación de un GA con distintos operadores genéticos y un GA celular para la síntesis de seguidores de voltaje, XIV Reunión de Otoño de Potencia, Electrónica y Computación, ROPEC'2012 INTERNACIONAL, Colima, México, 7-9 Noviembre 2012.

Ciencias Computacionales

Internacional

207. "Improving the Multiple Alignments Strategy for Fingerprint Verification". Miguel Ángel Medina-Pérez, Milton García-Borroto, Andrés Eduardo Gutiérrez-Rodríguez, and **Leopoldo Altamirano-Robles**. Lecture Notes in Computer Science, Volume 7329, Pattern Recognition, pp. 147-154. June 2012.
208. "Acceleration of the reflectance field acquisition using independent component analysis," Ma. Luisa Rosas Cholula, **Miguel Arias-Estrada**, Proceedings of the 16th IEEE Int. Conf. On Electronics, Communications and Computers (CONIELECOMP). Puebla, Mexico. Feb 27-29, 2012. pp. 74-79.
209. "Embedded attitude control system for the educative satellite SATEDU," M.A. Mendoza-Barcenas, E. Vizcaíno, E. Vicente-Vivas, **M. Arias-Estrada**, I. Mendoza, J.A. Colín,, Proceedings of the 16th IEEE Int. Conf. On Electronics, Communications and Computers (CONIELECOMP). Puebla, Mexico. Feb 27-29, 2012. pp. 118-123.

Memorias Arbitradas Publicadas

210. “m3DICOM: A Platform for Mobile DICOM Visualization Based on X3D,” I. Ojog, **M. Arias-Estrada**. eTelemed 2012, The Foruth International Conference on eHealth, Telemedicine, and Social Medicine. Valencia, Spain. Jan 30, 2012, pp 40-42. ISBN: 978-1-61208-179-3.
211. “Using a Scaling Factor in $O(1/N)$ for the Fixed-Point Implementation of the Second-Order Goertzel Filter,” Modesto Medina-Melendrez, **Miguel Arias-Estrada**, Albertina Castro. IEEE International Symposium on Circuits and Systems, ISCAS 2012. Seoul, Korea. May 20-23, 2012.
212. Nested Dichotomies Based on Clustering, **Miriam Mónica Duarte-Villaseñor**, **Jesús Ariel Carrasco-Ochoa**, **José Francisco Martínez-Trinidad**, **Marisol Flores-Garrido**, Lecture Notes in Computer Science, Volume 7441, Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications, pp. 162-169, 2012
213. CAR-NF+: An Improved Version of CAR-NF Classifier, Raudel Hernández-León, José Hernández-Palancar, **Jesús Ariel Carrasco-Ochoa**, **José Francisco Martínez-Trinidad**, Lecture Notes in Computer Science, Volume 7441, Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications, pp. 455-462, 2012
214. A Modification of the Lernmatrix for Real Valued Data Processing, José Juan Carbajal-Hernández, Luis P. Sánchez-Fernández, Luis A. Sánchez-Pérez, **Jesús Ariel Carrasco-Ochoa**, **José Francisco Martínez-Trinidad**, Lecture Notes in Computer Science, Volume 7441, Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications
215. “Genetic Algorithm for Multidimensional Scaling over Mixed and Incomplete Data”, **Pedro Tecuanhuehue-Vera**, **Jesús Ariel Carrasco-Ochoa** and **José Fco. Martínez-Trinidad**, Lecture Notes in Computer Science, Volume 7329, Pattern Recognition, pp. 226-235. June 2012.

Memorias Arbitradas Publicadas

216. "Throughput and Efficiency Analysis of Unrolled Hardware Architectures for the SHA-512 Hash Algorithm", Algreto-Badillo, I.; Morales-Sandoval, M.; **Feregrino-Urbe, C.; Cumplido, R.**, 2012 IEEE Computer Society Annual Symposium on VLSI (ISVLSI), pp.63-68, 19-21 Aug. 2012, doi: 10.1109/ISVLSI.2012.63.
217. "ChaLearn Gesture Challenge: Design and First Results". Isabelle Guyon, Vassilis Athitsos, Pat Jangyodsuk, Ben Hamner, and **Hugo Jair Escalante**. IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), Workshop on Gesture Recognition and Kinect Demonstration Competition, Providence, Rhode Island, USA, June 2012.
218. "A Two-step Approach for Effective Detection of Misbehaving Users in Chats". Esaú Villatoro-Tello, Antonio Juárez-González, **Hugo Jair Escalante, Manuel Montes-Y-Gómez and Luis Villaseñor-Pineda**. Workshop on Uncovering Plagiarism, Authorship, and Social Software Misuse, PAN 2012. Rome, Italy, Working Notes Papers, ISSN 2038--4963, ISBN 978-88-904810-3-1, 17-20 September 2012.
219. "Improving Neural-Based Classification of Databases with Overlapped Classes: the Case of Star/Galaxy Segregation." **Gómez-Gil P**, López-Cruz O, Cruz-Martínez AB. Third IEEE Latin American Symposium on Circuit and Systems LASCAS 2012. Playa del Carmen, México. February 2012.
220. "A Motor Imagery BCI Experiment using Wavelet Analysis and Spatial Patterns Feature Extraction", Obed Carrera León, Juan Manuel Ramirez Cortés, Vicente Alarcón-Aquino, Mary Baker, David D'Croz-Baron, **Pilar Gomez-Gil**, 2012 IEEE Workshop on Engineering Applications, Bogotá, Colombia, May 2-4, 2012.

Memorias Arbitradas Publicadas

221. “Satélites de Comunicaciones y Percepción Remota para la Teleepidemiología Panorámica del Mal de Chagas”. Amanda O. Gómez González, Marina de J. Kasten Monges, y **Jesús A. González**. 2do Congreso Nacional y 1er Latinoamericano de Ciencia y Tecnología Aeroespacial, Sociedad Mexicana de Ciencia y Tecnología Aeroespacial y Sociedad Científica Francisco Javier Estrada, 2012.
222. “Contrasting Temporal Bayesian Network Models for Analyzing HIV Mutations”. **Pablo Hernandez-Leal, Lindsey Fiedler-Cameras**, Alma Rios-Flores, **Jesús A. González and L. Enrique Sucar**. The 9th Bayesian Modelling Applications Workshop, 2012.
223. “Graph-based and Lexical-Syntactic Approaches for the Authorship Attribution Task”. Esteban Castillo, Darnes Vilariño, David Pinto Iván Olmos, **Jesús A. González**, and Maya Carrillo. Workshop on Uncovering Plagiarism, Authorship, and Social Software Misuse, PAN 2012. Rome, Italy, Working Notes Papers, ISSN 2038--4963, ISBN 978-88-904810-3-1, 17-20 September 2012.
224. “MOGARS: Multi-objective Genetic Algorithm for the discovery of Regulatory Sequences”, **Hernández D. José Luis, Jesús A. González Bernal, Aurelio López-López**, Procs. 22nd International Conference on Electronics, Communications and Computing CONIELECOMP 2012, ISBN 978-1-61284-1324-8, pp. 7-11.
225. “A Method Based on Congestion Game Theory for Determining Electoral Tendencies”, Guillermo De Ita, Luis Altamirano, **Aurelio López-López**, Yolanda Moyao, Social Informatics, 4th International Conference, SocInfo 2012, Lausanne, Switzerland, December 5-7, 2012, Proceedings, Lecture Notes in Computer Science, Vol. 7710, 2012, Springer Berlin/Heidelberg, pp. 162-174.

Memorias Arbitradas Publicadas

226. "Supporting the Review of Student Proposal Drafts in Information Technologies", **Samuel González López** and **Aurelio López-López**, Procs of the 2012 ACM Special Interest Group for Information Technology Education Conference, SIGITE '12 (co-located with RIIT'12), Randy Connolly, Dave Armitage, Jeff Brewer (Eds.), October 11–13, 2012, Calgary, Alberta, Canada. ACM 2012, ISBN 978-1-4503-1464-0, pp. 215-220.
227. "Multitarget Flocking for Constrained Environments", **Armando Serrato Barrera**, **A. López-López**, **Gustavo Rodríguez Gómez**, Advances on Practical Applications of Agents and Multi-Agent Systems, Advances in Intelligent and Soft Computing, 2012, Volume 155/2012, Springer Berlin/Heidelberg , ISSN: 1867-5662, pp. 181-190.
228. "Demonstration of Multitarget Flocking for Constrained Environments", **Armando Serrato Barrera**, **Aurelio López-López**, **Gustavo Rodríguez Gómez**, Advances on Practical Applications of Agents and Multi-Agent Systems, Advances in Intelligent and Soft Computing, 2012, Volume 155/2012, Springer Berlin/Heidelberg , ISSN: 1867-5662, pp. 287-290.
229. "A new Overlapping Clustering Algorithm based on Graph Theory". **Airel Pérez Suárez**, **José Fco. Martínez Trinidad**, **Jesús A. Carrasco Ochoa** and José E. Medina Pagola. MICAI 2012, San Luis Potosí, Mexico, October 27 - November 4, 2012, Proceedings, Part I. Lecture Notes in Artificial Intelligence, vol. 7629, ISSN 0302-9743. Springer-Verlag. pp. 61-72.
230. Hybrid Feature Selection Method for Biomedical Datasets. **Saúl Solorio-Fernández**, **José Fco. Martínez-Trinidad**, **Jesús Ariel Carrasco-Ochoa**, Yan-Qing Zhang, IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology, San Diego CA, USA, pp. 150-155, 9-12 May 2012. Robust (Article). pp. 6-10.

Memorias Arbitradas Publicadas

231. On the Use of PU Learning for Quality Flaw Prediction in Wikipedia. Edgardo Ferretti, Donato Hernández Fusilier, Rafael Guzmán Cabrera, **Manuel Montes y Gómez**, Marcelo Errecalde, and Paolo Rosso. Workshop on Uncovering Plagiarism, Authorship, and Social Software Misuse, PAN 2012. Rome, Italy, September 2012.
232. Optimized Fuzzy Text Alignment for Plagiarism Detection. Fernando Sánchez-Vega, **Manuel Montes-Y-Gómez and Luis Villaseñor-Pineda**. Workshop on Uncovering Plagiarism, Authorship, and Social Software Misuse, PAN 2012. Rome, Italy, September 2012.
233. A New Document Author Representation for Authorship Attribution, **Adrián Pastor López-Monroy, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda, Jesús Ariel Carrasco-Ochoa and José Fco. Martínez-Trinidad**, Lecture Notes in Computer Science, Volume 7329, Pattern Recognition, pp. 283-292, June 2012.
234. “Unsupervised Learning of Visual Object Recognition Models”. **Dulce J. Navarrete, Eduardo F. Morales, Luis Enrique Sucar**. Advances in Artificial Intelligence – IBERAMIA 2012. Lecture Notes in Computer Science Volume 7637, 2012, pp 511-520. November, 13-16, 2012.
235. “A Stochastic Queueing Model for Multi-robot Task Allocation”. **Angélica Muñoz-Meléndez**, Prithviraj Dasgupta and William Lenagh. 9th International Conference on Informatics in Control, Automation and Robotics (ICINCO 2012). Rome, Italy 28-31 July, 2012.
236. “Multi-robot Terrain Coverage and Task Allocation for Autonomous Detection of Landmines”. Prithviraj Dasgupta, **Angélica Muñoz-Meléndez**, K.R. Guruprasad (2012) 23-27 April 2012 Defense Security+Sensing, Baltimore, Maryland, USA. ISBN: 9780819490377. Sensors, and Command, Control, Communications, and Intelligence (C3I) Technologies for Homeland Security and Homeland Defense XI (Proceedings Volume). Proceedings of SPIE Volume: 8359. 14p.

Memorias Arbitradas Publicadas

237. "Hybrid Binary-Chain Multidimensional Classifiers". Pablo Hernández-Leal, **Felipe Orihuela-Espina**; **Luis Enrique Sucar**, **Eduardo F. Morales**. The Sixth European Workshop on Probabilistic Graphical Models, pp. 139-146, Granada, España, 19-21 September 2012.
238. "A framework for oil well production data validation". Javier Herrera-Vega, **Felipe Orihuela-Espina**, **Eduardo F. Morales**, and **Luis Enrique Sucar**. Workshop on Operations Research and Data Mining (ORADM'2012) in 10th International Conference on Operations Research 10 pp., Cancún, México, 12-14 March 2012.
239. "Designing and Implementing Affective and Intelligent Tutoring Systems in a Learning Social Network". Ramón Zatarain Cabada, María Lucía Barrón Estrada, Yasmín Hernández, Pérez and **Carlos Alberto Reyes García**. MICAI 2012, San Luis Potosí, Mexico, October 27 - November 4, 2012, Proceedings, Part I. Lecture Notes in Artificial Intelligence, vol. 7630, ISSN 0302-9743. Springer-Verlag. pp. 447-458.
240. "Infant Cry Classification Using Genetic Selection of a Fuzzy Model". **Alejandro Rosales Pérez**, **Carlos A. Reyes-García**, **Jesus A. Gonzalez** and Emilio Arch-Tirado. Lecture Notes in Computer Science, Vol. 7441, pp. 212 – 219, CIARP, 2012. September 3-6, 2012.
241. "Optimization of the Location of Distribution Centers in the Supply Chain using Genetic Algorithms", Héctor Domínguez Martínez, **Carlos Alberto Reyes García** and **Alejandro Rosales**, in Recent Researches in Automatic Control and Electronics, proceedings of 14th International Conference on Automatic Control Modelling and Simulation (ACMOS 12), Saint Malo, France, April 2012, pp 98-104, ISBN 978-1-61804-080-0.
242. "On the implementation of a method for automatic detection of infant cry units", Maía Antonia Rúiz, **Carlos Alberto Reyes**, Luis Carlos Altamirano, in proceedings of the International Meeting of Electrical Engineering Research (ENIINVIE 2012), Edited by Leonardo Acho Zuppa, David H. Covarrubias R., Miguel V. Andres, Geminiano D.

Memorias Arbitradas Publicadas

Martínez Ponce, Oscar Montiel, Luis C. García Santander, Manuel Reta Hernández and Reynaldo Felix Acuña, electronic publication (<http://www.sciencedirect.com/science/journal/18777058/35>) by Procedia Engineering, Copyright © 2012 Elsevier Ltd, Pp 217-222, Ensenada, BC, Mexico, 2012, ISSN: 1877-705

243. "Toward a Silent Speech Interface Based on Unspoken Speech", **Torres García Alejandro Antonio, Reyes García Carlos Alberto and Villaseñor Pineda Luis**, in proceedings of the International Conference on Bio-inspired Systems and Signal Processing (BioSignals 2012), edited by Savine Van Huffel, Carlos Correia, Ana Fred and Hugo Gamboa, pp 370-373, Portugal, February 2012, ISBN 978-989-8425-89-8.
244. "Hierarchical Markov Random Fields with Irregular Pyramids for Improving Image Annotation". Annette Morales-González, Edel García-Reyes, **Luis Enrique Sucar**. IBERAMIA, LNAI 7637, Springer-Verlag, pp. 521-530, November 13-16, 2012.

Nacional

245. "Análisis empírico sobre la adopción de las metodologías ágiles en los equipos de desarrollo de software en empresas mexicanas." Enríquez-Ramírez C, **Gómez-Gil P.** XXV Congreso Nacional y XI Congreso Internacional de Informática y Computación ANIEI 2012 (CNCIIC -ANIEI) del 24 al 27 de Octubre del 2012 en México, DF.
246. "DEPYM: Modelo de mejora del procesos de software con enfoque de desarrollo dirigido por pruebas". Centeno-Téllez A, **Gómez-Gil, P.** Coloquio de Investigación Multidisciplinaria CIM-2012, organizado por el Instituto Tecnológico de Orizaba, que se llevará a cabo en Orizaba, Ver., los días 25 y 26 de octubre de 2012. pp. 912-919
247. "Acceleration of Selective Cationic Antibacterial Peptides Computation: a Comparison of FPGA and GPU Approaches," **García-Ordaz D., Arias-Estrada M.,** Nuño-Maganda M., Polanco C. and Del Rio G., 3rd



Memorias Arbitradas Publicadas

International Supercomputing Conference in Mexico, ISUM 2012. Guanajuato, Gto. March 14-16, 2012.

248. "Predicting Overfitting on Time Series Forecasters". Mario Graff, **Hugo Jair Escalante**, and Alberto Avalos Gonzalez. Proceedings of the IEEE XIV ROPEC 2012, Colima, Mexico, November 2012.
249. "Modelo de mejora del proceso de capacitación para desarrolladores de software en PYMES basado en ambientes ágiles." Carlos Enríquez Ramírez, **Pilar Gómez Gil**. Quinto Coloquio Interdisciplinario de Doctorado – Universidad Popular Autónoma del Estado de Puebla. 26 y 27 de Abril 2012
250. "DEPYM: Metodología para la Mejora de Procesos de Software con un enfoque de Desarrollo Dirigido por Pruebas." Adolfo Centeno-Téllez, **Pilar Gómez-Gil**. Quinto Coloquio Interdisciplinario de Doctorado – Universidad Popular Autónoma del Estado de Puebla. 26 y 27 de Abril 2012.
251. "Instrumentación para espectroscopia infrarroja funcional" **Orihuela-Espina, Felipe**; Sánchez-Pérez, Karla Janeth; Herrera-Vega, Javier; Treviño-Palacios, Carlos G. and **Sucar, Luis Enrique**. Publicado en la XIV Reunión de Neuroimagen, Centro de Investigación en Matemáticas (CIMAT) e Instituto de Neurobiología de la Universidad Nacional Autónoma de México (UNAM), Guanajuato, México, 19 Oct 2012.