

Artículos Arbitrados Publicados

Astrofísica

1. Abeysekara, A. U., Aguilar, J. A., Aguilar, S., Alfaro, R., Almaraz, E., Álvarez, C., Álvarez-Romero, J. d. D., Álvarez, M., Arceo, R., (146 coautores, incluyendo **Carramiñana, A.** #24, Carrasco, L. #25, Galindo, A. #48, González, L. X. #52, **Mendoza-Torres, J. E.** #86, Reyes, J. #107, **Rosa-González, D.** #108, **Silich, S.** #118, , Suárez, N. #124, **Tenorio-Tagle, G.** #126, Torres, I. #130, **Wall, W.** #138), "On the sensitivity of the HAWC observatory to gamma-ray bursts", APh 35, 641-650, 5/2012.
2. Arshakian, T. G., León-Tavares, J., Böttcher, M., **Torrealba, J.**, **Chavushyan, V. H.**, Lister, M. L., Ros, E., Zensus, J. A., "Radio-optical-gamma-ray properties of MOJAVE AGN detected by Fermi/LAT", A&A 537, A32-, 1/2012.
3. **Avilés, J. L.**, Avila, R., Butterley, T., Wilson, R., Chun, M., **Carrasco, E.**, Farah, A., Cuevas, S., "Self-adjusting data acquisition system for Low Layer SCIDAR", MNRAS 423, 900-908, 6/2012.
4. Basilakos, S.; Dent, J. B.; Dutta, S.; Perivolaropoulos, L.; **Plionis, M.**, "Testing general relativity using the evolution of linear bias", Ph.Rv.D., 85, 3501, 06/2012.
5. Buzzoni, A., **Bertone, E.**, Carraro, G., Buson, L., "Stellar lifetime and ultraviolet properties of the old metal-rich Galactic open cluster NGC 6791:a pathway to understand the UV upturn of elliptical galaxies", ApJ, 749, 35, 2012.
6. **Carrasco, E.**, **Carramiñana, A.**, Sánchez, L. J., Avila, R., Cruz-González, I., "An estimate of the temporal fraction of cloud cover at San Pedro Mártir Observatory", MNRAS 420, 1273-1280, 2/2012.
7. Davis, Benjamin L.; Berrier, Joel C.; Shields, Douglas W.; Kennefick, Julia; Kennefick, Daniel; Seigar, Marc S.; Lacy, Claud H. S.; **Puerari, Ivânia**, "Measurement of Galactic Logarithmic Spiral Arm Pitch Angle Using Two-dimensional Fast Fourier Transform Decomposition", ApJS 199, 33-52, 04/2012.
8. Elyiv, A.; Clerc, N.; **Plionis, M.**; Surdej, J.; Pierre, M.; Basilakos, S.; Chiappetti, L.; Gandhi, P.; Gosset, E.; Melnyk, O.; Pacaud, F., "Angular correlation functions of X-ray point-like sources in the full exposure XMM-LSS field", A&A, 537, 131, 01/2012.
9. Jiménez-Bailón, E., **Chavushyan, V.**, Schartel, N., Santos-Lleó, M., Huerta, E. M., Krongold, Y., "On the Nature of Hard X-Ray Extragalactic Sources Observed with XMM-Newton", AJ 143, 64-, 3/2012.
10. Kawabe, R., Kim, S., Kohno, K., Lowenthal, J. D., **Montaña, A. (est.)**, Nakanishi, K., Oshima, T., Sanders, D., Scott, D., Scoville, N., Tamura, Y., Welch, D., Yun, M. S., **Zeballos, M. (est.)**, "The source counts of submillimetre galaxies detected at $\lambda = 1.1$ mm", MNRAS 423, 575-589, 6/2012.
11. Kim, M. J., Kim, S., Youn, S., Yun, M. S., Wilson, G. W., **Aretxaga, I.**, Williams, J. P., **Hughes, D. H.**, **Humphrey, A.**, Austermann, J. E., Perera, T. A., Mauskopf, P. D., Magnani,

Artículos Arbitrados Publicados

- L., Kang, Y.-W., "AzTEC 1.1 mm Observations of the MBM12 Molecular Cloud", ApJ 746, 11-, 2/2012.
12. Martin, P. G., Roy, A., Bontemps, S., Miville-Deschénes, M.-A., Ade, P. A. R., Bock, J. J., Chapin, E. L., Devlin, M. J., Dicker, S. R., Griffin, M., Gundersen, J. O., Halpern, M., Hargrave, P. C., **Hughes, D. H.**, Klein, J., Marsden, G., Mauskopf, P., Netterfield, C. B., Olmi, L., Patanchon, G., Rex, M., Scott, D., Semisch, C., Truch, M. D. P., Tucker, C., Tucker, G. S., Viero, M. P., Wiebe, D. V., "Evidence for Environmental Changes in the Submillimeter Dust Opacity", ApJ 751, 28-, 5/2012.
13. Martin-Manjon, M. L., Molla, M., Diaz, A. I., **Terlevich, R.**, "Evolution of star-forming dwarf galaxies: characterizing the star formation scenarios", MNRAS 420, 1294-1308, 2/2012.
14. Masetti, N., Parisi, P., Jiménez-Bailón, E., Palazzi, E., **Chavushyan, V.**, Bassani, L., Bazzano, A., Bird, A. J., Dean, A. J., Galaz, G., Landi, R., Malizia, A., Minniti, D., Morelli, L., Schiavone, F., Stephen, J. B., Ubertini, P., "Unveiling the nature of INTEGRAL objects through optical spectroscopy. IX. Twenty two more identifications, and a glance into the far hard X-ray Universe", A&A 538, A123-, 2/2012.
15. Morales, M. A., Rojas, J. F., **Torres, I.**, Rubio, E., "Modeling ternary mixtures by mean-field theory of polyelectrolytes: Coupled Ginzburg-Landau and Swift-Hohenberg equations", PhyA 391, 779-791, 2/2012.
16. Papageorgiou, A. (est.); **Plionis, M.**; Basilakos, S.; Ragone-Figueroa, C., "A consistent comparison of bias models using observational data", MNRAS, 422, 106, 05/2012.
17. Smolčić, V., Navarrete, F., Aravena, M., Ilbert, O., Yun, M. S., Sheth, K., Salvato, M., McCracken, H. J., Diener, C., **Aretxaga, I.**, Riechers, D. A., Finoguenov, A., Bertoldi, F., Capak, P., **Hughes, D.**, Karim, A., Schinnerer, E., Scoville, N. Z., Wilson, G., "Quest for COSMOS Submillimeter Galaxy Counterparts using CARMA and VLA: Identifying Three High-redshift Starburst Galaxies", ApJS 200, 10-, 5/2012.
18. Simonneau, E., **Cardona, O.**, Crivellari, L., "An improved version of the implicit integral method to solving radiative transfer problems", Ap 55, 110-126, 3/2012.
19. Yun, M. S., Scott, K. S., Guo, Y., **Aretxaga, I.**, Giavalisco, M., Austermann, J. E., Capak, P., Chen, Y., Ezawa, H., Hatsukade, B., **Hughes, D. H.**, Iono, D., Johnson, S., Kawabe, R., Kohno, K., Lowenthal, J., Miller, N., Morrison, G., Oshima, T., Perera, T. A., Salvato, M., Silverman, J., Tamura, Y., Williams, C. C., Wilson, G. W., "Deep 1.1 mm-wavelength imaging of the GOODS-S field by AzTEC/ASTE - II. Redshift distribution and nature of the submillimetre galaxy population", MNRAS 420, 957-985, 2/2012.
20. Tovmassian, H. M., Andernach, H., "On the Formation of cD Galaxies and their Parent Clusters", MNRAS, 000, 1-8, 03/2012.
21. **Cardona O., Corona-Galindo, M.G.**, "Calculation of the maximum number of vibrational and rotational energy states for diatomic molecules", Rev. Mex. Fis. 58, 174-179, 2012.

Artículos Arbitrados Publicados

22. **Torrealba, J., Chavushyan, V.**, Cruz-González, I., Arshakian, T. G., Bertone, E., Rosa-González, D., "Optical Spectroscopic Atlas of the MOJAVE/2cm AGN Sample", RMxAA 48, 9-40, 4/2012.

Óptica

23. **V. Arrizón, D. Sánchez-de-la-Llave**, G. Méndez. "Holographic generation of a class of nondiffracting fields with optimum efficiency". Optics Letters, 37, 11, (2012), 2154-2156.
24. **Celso Gutiérrez-Martínez**, Joel Santos-Aguilar, Misael Santiago-Bernal, Adolfo Morales-Díaz, José Alfredo Torres-Fortíz, Jacobo Meza-Pérez. "Reconfiguring the frequency response of dispersive-channel radio over fiber systems by using fiber photonic filters: Application to transmission of multiplexed microwave sub-carriers. Microwave and Optical Technology Letters, 44, 8, (2012), 1869-1874.
25. Anmi García-Arellano, **Fermín Granados-Agustín**, Manuel Campos-García, Alejandro Cornejo-Rodríguez. "Ronchi Test with equivalent wavelength". Applied Optics, 51, 15, (2012), 3071-3080.
26. Dayana. H. Peñalver, David L. Romero-Antequera, **Fermín-Salomón Granados-Agustín**. "Interferogram smoothing and skeletonizing using Bessel functions of the first kind". Optical Engineering, 51 (4), 045601.
27. R. Zhou, Q. Zhan, P. E. Powers, **B. Ibarra-Escamilla**, J. W. Haus. "An all fiber based Talbot self-imaging mirror device for phase-locking of a multi-fiber laser". Journal of the European Optical Society, 7, (2012), 12012-1-12012-6.
28. **Gabriel Martínez Niconoff**, J. Muñoz López, J. Silva Barranco, A. Carbajal Dominguez, Patricia Martinez Vara. "Self-focusing transmittances". Optics Letters, 37, 11 (2012), 2121-2123.
29. **S. Mansurova**, P. Moreno Zarate, P. Rodriguez, S. Stepanov, S. Kober, K. Meerholz. "Non-steady-state photoelectromotive force effect under linear and periodical phase modulation: application to detection of Doppler frequency shift". Optics Letters, 37, Issue 3, (2012), 383-385.
30. **Héctor Moya-Cessa, Francisco Soto-Eguibar**, José M. Vargas-Martínez, Raúl Juárez-Amaro, Arturo Zúñiga-Segundo. "Ion-laser interactions: The most complete solution". Physics Reports, 513, (2012), 229-261.
31. D. Rodríguez-Méndez, **H. Moya-Cessa**. "High noon states in trapped ions." Physica Scripta T, 147, (2012), 014028-1-014028-3.

Artículos Arbitrados Publicados

32. A. Zúñiga-Segundo, J. M. Vargas-Martínez, R. Juárez-Amaro, **H. Moya-Cessa**, "Exact solution of the ion-laser interaction in all regimes". Annalen der Physik 524, 2, (2012), 107-111".
33. A. Perez-leija, **H. Moya-Cessa**, D. N. Christodoulides. "Optical realization of the atom-field interaction in waveguide lattices". Physica Scripta T, 147, (2012), 014023-1- 014023-3.
34. A. Pérez-Leija, R. Keil, A. Szameit, A. Abouraddy, **H. Moya-Cessa**, D. N. Christodoulides. "Tailoring the correlation and anti-correlation behavior of pathentangled photons in glauber-fock oscillator lattices". Phys. Rev. A, 85, (2012), 013848-1-013848-5.
35. **R. Ramos-García**, K. Berrospe-Rodriguez. "Enhancement of the coupling gain in gaas-liquid crystal hybrid devices". Mol. Cryst. Liq. Cryst., 561, (2012), 68–73.
36. **J. Martínez-Carranza, F. Soto-Eguibar, and H. Moya-Cessa**. Alternative analysis to perturbation theory in quantum mechanics. Eur. Phys. J. D (2012) 66: 22
37. P. Moreno Zárate, **A. Shcherbakov, S. Mansurova**. "Applying non-steady-state photo-EMF technique to detection of higher order auto-correlation functions of ultra-short optical pulses". Journal of Applied Research and Technology, 10, 2, (2012), 143-151.
38. M. Torres-Cisneros, Patrick LiKamWa, D. May-Arrioja, O. G. Ibarra-Manzano, H. Plascencia-Mora, E. Aguilera-Gómez, J. G. Aviña-Cervantes, J. J. Sánchez-Mondragón, Q. Song, J. A. Andrade-Lucio, R. Guzmán-Cabrera. "Liquid crystals nano-droplets formation in polymer dispersed materials". Phys. Status Solidi C, 1– 6 (2012) / DOI 10.1002/pssc.201100749.
39. **Gonzalo Urcid**, Juan Carlos Valdiviezo-N., Gerhard X. Ritter. "Lattice algebra approach to color image segmentation," Springer Verlag Journal of Mathematical Imaging and Vision, 42, (2012), 150-162.
40. **Alberto Jaramillo-Núñez**, Mónica Pérez-Meza. "Búsqueda de metástasis óseas en radiografías". Anales de Radiología. Mexico., 11 (2), (2012), 122-127. ISSN: 1665-2118.

Electrónica

41. J.A. Luna-López, I. Vivaldo-De la Cruz, **M. Aceves-Mijares**, A. Morales-Sánchez a, G. García-Salgado. "UV enhancement of silicon solar cells using thin SRO films" J. Carrillo-López, Solar Energy Materials & Solar Cells 100, 39–42, (2012).
42. J.A. Luna-López, **M. Aceves-Mijares**, J. Carrillo-López, A. Morales-Sánchez, F. Flores-Gracia and D.E. Vázquez Valerdi. "UV-Vis Photodetector with Silicon Nanoparticles, Photodetectors". Sanka Gateva (Ed.), ISBN: 978-953-51-0358-5, (2012).
43. Rosa López-Estopier, **Mariano Aceves-Mijares** and Ciro Falcony . "Cathodo- and Photo-Luminescence of Silicon Rich Oxide Films Obtained by LPCVD", Cathodoluminescence, Naoki Yamamoto (Ed.), ISBN: 978-953-51-0362-2, (2012).

Artículos Arbitrados Publicados

44. A. A. González Fernández, J. Juvert, Alfredo Morales-Sánchez, Jorge Barreto, **M. Aceves**, and C. Domínguez. "Comparison of electrical and electro-optical characteristics of light emitting capacitors based on silicon rich Si-oxide fabricated by plasma-enhanced chemical vapour deposition and ion implantation" Journal of Applied Physics 111, 053109 (2012).
45. Luís Niño de Rivera, Ernesto Paredes Martínez, Daniel Robles Camarillo, **Wilfrido Calleja Arriaga**. "Adaptive Electrical Stimulation to Improve In-Vitro Cell Growth." Procedia Technology Editorial Elsevier, Vol. 3, 316-323, 2012. ISSN 2212-0173.
46. J.C. Vazquez, **V. Champac**, A.M. Ziesemer Jr., R. Reis, I.C. Teixeira, M.B. Santos1and J.P. Teixeira "Delay Sensing for Long-Term Variations and Defects Monitoring in Safety-Critical Applications", Analog Integrated Circuits and Signal Processing, Springer-Verlag, Volume 70, Number 2, pp. 249-263, 2012.
47. **Alonso Corona-Chavez, J. R. Reyes-Ayona**, D. V. B. Murthy, and **J. L. Olvera-Cervantes**, Miniaturized Forced-Mode Ring Resonator With Capacitive Loading, Progress In Electromagnetics Research Letters, Vol. 31, 65- 73, 2012. ISSN: 1937-6480.
48. J.A. Martínez-Ñonthe A. Castañeda-Solís **A. Díaz-Méndez** M. Cruz-Irisson R. Vázquez-Medina, CHAOTIC BLOCK CRYPTOSYSTEM USING HIGH PRECISION APPROACHES TO TENT MAP, Microelectronic Engineering Journal, Elsevier, ISSN 0167-9317, Vol 90, pp 168-172, Febrero 2012.
49. J. López-Hernández **A. Díaz-Méndez** J.L. Del-Río-Correa M. Cruz- Irisson R. Vázquez-Medina, A Current Mode Cmos Noise Generator Using Multiple Bernoulli Maps, Microelectronic Engineering Journal, Elsevier, DOI:10.1016/J.MEE.2011.05.009, vol 90, pp. 163-167, Febrero 2012, ISSN 0167-9317
50. Trejo A. Miranda L. Niño de Rivera **A. Díaz-Méndez** M. Cruz-Irisson, Phonon Optical Modes And Electronic Properties In Diamond Nanowires, Microelectronic Engineering, DOI:10.1016/J.MEE.2011.04.052, vol 90, pp. 92-95, Febrero 2012.
51. Ricardo Francisco Martínez-González, José Alejandro Díaz-Méndez, César Enrique Rojas-López, Rubén Vázquez-Medina, Digital Noise Generator Based on Bernoulli Chaotic Map, Applied Mechanics and Materials, vols. 152-154, 2012, pp 1869-1873, DOI: 10.4028/www.scientific.net/AMM.152-154.1869
52. Padilla-Cantoya, P.M. Furth, J.E. Molinar-Solis, **A. Diaz-Sanchez**, "Low-voltage Differential Voltage Follower for WTA and Fully Differential Applications," IEICE Electronic Express, Vol. 9, No. 6, March 25, 2012, pp 491-495.
53. J.E. Molinar-Solis, R. Garcia-Lozano, A. Morales-Ramirez, O. Espinoza-Ortega, M. ocha-Perez, **A. Diaz-Sanchez**, J. Ramirez-Angulo, H. Vazquez-Leal, "Low Voltage Lazzaro's WTA with Enhanced Loop Gain," IEICE Electronic Express, Vol. 9, No.7, pp. 649-653.
54. Carlos R. Bermúdez-Gómez, **Rogerio Enríquez-Caldera** and Antonio H Costa. "Representation of Chirp Signals in the Time-Frequency Domain Using Duffing Oscillators"

Artículos Arbitrados Publicados

JCR International Journal: Signal Processing: A publication of the European Association for Signal Processing (EURASIP) ELSEVIER. ISSN: 0165-1684. Impact Factor 1.373.

55. **Miguel Ángel Gutiérrez de Anda**, "On the calculation of Lyapunov exponents for continuous-time LTV dynamical systems using dynamic eigenvalues," International Journal of Bifurcation and Chaos, vol. 22, no. 1, 1250019 (10 pages), January 2012. ISSN: 0218-1274. Revista de circulación mensual indexada en el Journal Citation Reports.
56. **E. A. Gutiérrez D.**, E. Póndigo de los A., V. H. Vega-G., and F. Guarin, "Observation of asymmetric magnetoconductance in strained 28-nm Si MOSFETs", IEEE Electron Device Letters, Vol. 33, No. 2, February 2012, pp. 254-256.
57. **Jorge R. Zurita-Sánchez**, J.H. Abundis-Patiño, and P. Halevi Pulse propagation through a slab with time-periodic dielectric function $\epsilon_{\text{ps}}(t)$ Optics Express **20**, 5586-5600(2012).
58. U. Filobello-Niño, Hector Vazquez-Leal, R. Castañeda-Sheissa, A. Yildirim, **L. Hernandez-Martinez**, D. Pereyra-Diaz, A. Perez-Sesma, H. Hoyos-Reyes, "An approximate solution of Blasius equation by using HPM method", Asian Journal of Mathematical & Statics, 2012, Vol. 5, pp. 50-59, doi:103923/ajms.2012.50.59/ ISSN: 2077-2068.
59. Hector Vazquez-Leal, Uriel Filobello-Nino, Ahmet Yildirim, **Luis Hernandez-Martinez**, Roberto Castañeda-Sheissa, Jesus Sanchez-Orea, **Alejandro Diaz-Sanchez**, "Transient and DC approximate expressions for diode circuits", IEICE Electron Express, Vol. 9, No. 6, pp. 522-530, 2012. ISSN: 1349-2543 (Indexada).
60. U. Filobello-Nino, H. Vazquez-Leal, Y. Khan, A. Yildirim, D. Pereyra-Diaz, A. Perez-Sesma, **L. Hernandez-Martinez**, J. Sanchez-Orea, R. Castañeda-Sheissa, F. Rabago-Bernal, "HPM Applied to solve nonlinear circuits: A study case", Applied Mathematical Sciences, Vol. 6, 2012, no. 87, 4331-4344. International Publishers of Science, Technology and Medicine. ISSN 1312-885X, (Indexada).
61. David Ernesto Troncoso Romero, Miriam Guadalupe Cruz Jiménez and **Gordana Jovanovic Dolecek**, "Diseño óptimo de transformadores de Hilbert sin multiplicadores en base al uso de un subfiltro simple," Computación y Sistemas, vol. 16, No.1, 2012, pp.111-120. ISSN: 1405-5546 (Indexed by Conacyt).
62. A. Fernandez-Vazquez and **G. Jovanovic Dolecek**, "On Passband and Stopband Cascaded-Integrator-Comb Improvements Using a Second Order IIR Filter," Telkomnika, Vol.10, No.1, March 2012, pp. 61-66, e-ISSN: 2087-278X (p-ISSN: 1693-6930).
63. A. Fernandez-Vazquez and **G. Jovanovic Dolecek**, "Maximally Flat CIC Compensation Filter: Design and Multiplierless Implementation" IEEE Transactions on Circuits and Systems II: Express Brief, February 2012, vol.54, N0.2, pp.113-117. ISSN: 1549-7747, (SCI Citation)
64. I.Cosme, **A.Kosarev**, F.T.Avila, A.Itzmoyotl. "Comparison of doping of Ge(y)Si(1-y):H films deposited by low frequency PECVD at high (300 C) and low (160 C) temperatures" Mater.Res.Soc. Symp Proc. v.1426, pp mrss 12-1426-a07-04 2012, 6 pp. DOI:

Artículos Arbitrados Publicados

- 10.1557/opl.2012.865 Cambridge University Press. Registradas en el institutte for scientific information, science citation index.
65. N.Delgadillo, **A.Kosarev, A.Torres**, B.Gonzalez. "Amorphous silicon-germanium (a-Si(0.01)Ge(0.99):H doped wit phosphorus deposited by LF PECVD and its electrical and optical characteristics", Mater.Res.Soc. Symp Proc. v.1426, pp mrss 12-1426-a21-03 2012, 6 pp. DOI: 10.1557/opl.2012.891 Cambridge University Press. : Registradas en el institutte for scientific information, science citation index
66. Joel Molina, Ana Luz Muñoz, **Wilfrido Calleja, Pedro Rosales, Alfonso Torres**, "High-quality spin-on glass-based oxide as a matrix for embedding HfO₂ nanoparticles for metal-oxide-semiconductor capacitors" Journal of Materials Science. Vol. 47, (5) March, pp. 2248-2255 (2012). ISSN: 0022-2461.
67. Miguel Dominguez, **Pedro Rosales, Alfonso Torres, Mario Moreno**, Abdu Orduña "Study of dilution of Spin-On Glass by Fourier transform infrared spectroscopy Thin Solid Films", vol. 520, (15), pp. 5018-5020 (2012) ISSN: 0040-6090.
68. **Juan Manuel Ramirez-Cortes**, Vicente Alarcon-Aquino, **Pilar Gomez-Gil, Alejandro Diaz-Mendez**, Mariana Ibarra-Bonilla, Irma Garcia-Enríquez(*), "Interactive educational tool for compensators design in MATLAB using frequency response analysis", Computer Applications in Engineering Education, ISSN 1061-3773, DOI: 10.1002/cae.21562, 2012. (Circulación y arbitraje internacional; registrada en el Science Citation Index, and JCR).
69. **M. Moreno, A. Torres, R. Ambrosio, E. Torres, P. Rosales, C. Zuñiga, C. Reyes-Betanzo, W. Calleja, J. De la Hidalga**, K. Monfil, "Study of polymorphous silicon as thermo-sensing film for infrared detectors " Materials Science and Engineering: B, vol. 177, (10), pp. 756-761 (2012) ISSN: 0921-5107.
70. D. Moro-Frías, **M.T. Sanz-Pascual**, C.A. de la Cruz-Blas, B. Calvo, **A. Díaz-Sánchez**, "Diseño y Simulación de un Circuito de Control Automático de Ganancia para Sistemas Sensores", Superficies y Vacío, vol. 25, no. 1, pp. 36-42, 2012.Registrada en el padrón de CONACYT. ISSN: 1665-3521.
71. Hector Vazquez-Leal, Uriel Filobello-Niño, Roberto Castañeda-Sheissa, **Luis Hernandez-Martinez, Arturo Sarmiento-Reyes**, "Modified HPMs inspired by Homotopy continuations methods", Mathematical Problems in Engineering, vol. 2012, Article ID 309123, 19 pages, 2012, doi:10.1155/2012/309123. ISSN:1024-123X
72. Hector Vazquez-Leal, Roberto Castaneda-Sheissa, Uriel Filobello-Nino, **Arturo Sarmiento-Reyes**, and Jesus Sanchez Orea, "High Accurate Simple Approximation of Normal Distribution Integral," Mathematical Problems in Engineering, vol. 2012, Article ID 124029, 22 pages, 2012. doi:10.1155/2012/124029.
73. S. Polanco-Martagón, G. Reyes-Salgado, G. Flores-Becerra, I. Guerra-Gómez, **E. Tlelo-Cuautle**, L. Gerardo de la Fraga, M.A. Duarte-Villaseñor, Selection of MOSFET Sizes by Fuzzy Sets Intersection in the Feasible Solutions Space, Journal of Applied Research and Technology, vol. 10, no. 3, pp. 472-483, ISSN: 1665-6423 (Online), June 2012. Ivick Guerra-

Artículos Arbitrados Publicados

Gómez e estudiante de Doctorado. Revista incluida en Padron de CONACyT y en Science Citation Index.

74. Luis G. de la Fraga, **E. Tlelo-Cuautle**, V.H. Carbajal-Gómez, On Maximizing Positive Lyapunov Exponents in a Chaotic Oscillator with Heuristics, *Revista Mexicana de Física*, vol. 58, no. 3, pp. 274–281, ISSN: 0035-001X, June 2012. Victor Hugo Carbajal-Gómez es estudiante de Doctorado. Revista incluida en Padron de CONACyT y en Science Citation Index.
75. M.A. Duarte-Villaseñor, **E. Tlelo-Cuautle**, L. Gerardo de la Fraga, Binary genetic encoding for the synthesis of mixed-mode circuit topologies, *Circuits, Systems and Signal Processing*, vol. 31, no. 3, pp. 849-863, ISSN: 0278-081X (Print) 1531-5878 (Online), June 2012. DOI: 10.1007/s00034-011-9353-2. Revista incluida en Science Citation Index.
76. S.C. Sejas-García, **R. Torres-Torres**, and **R. Murphy-Arteaga**, “Modeling transmission line son silicon in the frequency and time domains from S-parameters,” *IEEE Transactions on Electron Devices*, Vol. 59, No. 6, pp. 1803-1806, Jun. 2012. ISSN: 0018-9383.
77. G. Hernández-Sosa, **R. Torres-Torres**, and Adán Sánchez, “Return loss and crosstalk mitigation in coupled vías for modern high-speed packaging,” *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 22, No. 2, pp. 224-234, Mar. 2012. ISSN : 1096-4290.
78. O. Gonzalez-Diaz, **M. Linares Aranda**, and **R. Torres-Torres**, “A design-oriented methodology for accurate modeling of on-chip interconnects,” *Analog Integrated Circuits and Signal Processing*, Vol. 71 No. 2, pp. 221-230, May 2012. ISSN: 0925-1030.
79. William W. Hernández-Montero, **Ignacio E. Zaldívar Huerta**, **Carlos Zúñiga-Islas**, **Alfonso Torres-Jácome**, **Claudia Reyes-Betanzo**, and Adrián Itzmoyotl-Toxqui, “Optical and compositional properties of amorphous silicon-germanium films by plasma processing for integrated photonics”, Published online 2 Mar 2012, *Optical Materials Express*, Vol. 2 Issue 4, pp. 358-370 (2012). ISSN 2159-3930.
80. A. García-Juárez, **Ignacio E. Zaldívar-Huerta**, J. Rodríguez-Asomoza, R. Gómez-Colin “Method to Transmit Analog Information by Using a Long Distance Photonic Link With DFB Lasers Biased In The Low Laser Threshold Current Region”, *Optical Engineering* 51(6), 065006 (June 2012). ISSN: 0091-3286.
81. Francisco López, Johan Estrada, Mónico Linares, Carlos Zúñiga and Blanca Soto. “Study and comparison of CMOS layouts for applications in analog circuits”, *Journal of Scientific & Industrial Research*, Vol. 71, pp. 257-261. April 2012. ISSN: 0975-1084 (Online); 0022-4456.
82. **J. R. Zurita-Sánchez** y C. Henkel, Acoustic waves from mechanical impulses due to fluorescence resonant energy (Förster) transfer (Blowing a whistle with light), *Europhysics Letters* 97, 43002 (2012) [ISSN 0295-5075 (Print), ISSN 1286-4854 (Online)].
83. Mónico Linares Aranda, Oscar González Díaz, Manuel Salim Maza. “Sincronización de sistemas electrónicos en un mismo circuito integrado”. *Revista Ingeniería, Investigación y Tecnología*. Vol 13, No. 2, pp. 127-139. Abril-Junio, 2012. ISSN: 1405-7743.

Artículos Arbitrados Publicados

Ciencias Computacionales

84. "Improving Fingerprint Verification Using Minutiae Triplets" **Miguel Angel Medina-Pérez**, Milton García-Boroto, Andres Eduardo Gutierrez-Rodríguez and **Leopoldo Altamirano-Robles**. Sensors 2012, 12(3), pp. 3418-3437; doi:10.3390/s120303418. Received: 25 January 2012; in revised form: 28 February 2012 / Accepted: 28 February 2012 / Published: 8 March 2012. ISSN 1424-8220. IMPACT FACTOR 1.774.
85. "Using an aliasing operator and a single discrete Fourier transform to down-sample the Fresnel transform," Modesto Medina-Melendrez, **Albertina Castro**, and **Miguel Arias-Estrada**. Optics Express, Vol. 20, No. 8, Apr 2012. ISSN: 1094-4087. 9 p. . IMPACT FACTOR 3.753.
86. "CAR-NF: A classifier based on specific rules with high Netconf", **Raudel Hernández León**, **J. Ariel Carrasco-Ochoa**, **José Fco. Martínez-Trinidad**, and José Hernández Palancar, Intelligent Data Analysis an International Journal, 16(1), pp. 49-68, 2012. ISSN: 1088-467X. IMPACT FACTOR 0.412.
87. "Reducing the Number of Canonical Form Tests for Frequent Subgraph Mining", **Andrés Gago-Alonso**, **Jesús Ariel Carrasco-Ochoa**, José E. Medina-Pagola, **José Fco. Martínez-Trinidad**, Computación y Sistemas, 15(2), pp. 251-265, 2011. Impreso en 2012.
88. "Hardware-Software Platform for Computing Irreducible Testors", **Alejandro Rojas**, René Cumplido, **J. Ariel Carrasco-Ochoa**, **Claudia Feregrino** and **J. Francisco Martínez-Trinidad**, Expert Systems with Applications, Volume 39(2), pp. 2203-2210, 2012. ISSN: 0957-4174. IMPACT FACTOR 1.926. February 2012.
89. "Multimodal Indexing based on Semantic Cohesion for Image Retrieval". **Hugo Jair Escalante**, **Manuel Montes**, **Enrique Sucar**. Information Retrieval. Vol. 15, Num. 1, January 2012. ISSN: 1386-4564. (En JCR). pp.1-32. IMPACT FACTOR 1.327
90. "Semantic cohesion for image annotation and retrieval". **Hugo Jair Escalante**, **Enrique Sucar**, **Manuel Montes**. Computación y Sistemas, Vol. 16, No. 1, January-March, 2012. (En índice de Conacyt). pp. 121-126.
91. "Multi-class Particle Swarm Model Selection for Automatic Image Annotation". **Hugo Jair Escalante**, **Manuel Montes**, **Enrique Sucar**. Expert Systems With Applications. Volume 39, Issue 12, 15 September 2012, pp. 11011–11021. (En JCR).ISSN: 0957-4174. IMPACT FACTOR 1.926.
92. "Watermarking using similarities based on fractal codification", **Pedro Aaron Hernandez-Avalos**, **Claudia Feregrino-Uribe**, **Rene Cumplido**. Digital Signal Processing. Volume 22, Issue 2, March 2012, pp 324–336. DOI/10.1016/j.dsp.2011.10.012. Journal indexed in JCR. ISSN: 1051-2004. IMPACT FACTOR 1.220.

Artículos Arbitrados Publicados

93. "A Dynamic Clustering Algorithm for Building Overlapped Clusters", **Airel Pérez Suárez, J. Fco. Martínez-Trinidad, J. A. Carrasco-Ochoa** and José E. Medina-Pagola, Intelligent Data Analysis an International Journal, 16(2), pp. 211-232, 2012. ISSN: 1088-467X. IMPACT FACTOR 0.412.
94. "From the Happened-Before Relation to the Causal Ordered Set Abstraction", **Saul E. Pomares Hernandez, Jose Roberto Perez Cruz** and Michel Raynal, Journal of Parallel and Distributed Computing (JPDC), Eds. Elsevier, Vol. 72, Issue 6, June 2012, Pages 791–795, ISSN: 0743-7315. IMPACT FACTOR 1.078.
95. "Multi-session key Management Scheme for Multimedia Group Communications", **Jose Roberto Perez Cruz, Saul E. Pomares Hernandez, Gustavo Rodriguez Gomez**, Khalil Drira and Michel Diaz, Journal of Internet Technology, Eds. Airiti press, Vol. 13, and No. 1, 2012, pp. 67-78, ISSN: 1607-9264. IMPACT FACTOR 0.448.
96. "Data alignment for data fusion in wireless multimedia sensor networks based on M2M," **Jose Roberto Perez Cruz, Saul E. Pomares Hernandez, Enrique Munoz de Cote**, in KSII Transactions on Internet and Information Systems, Eds. KSII, Vol. 6, No. 1, 2012, pp.229-240, ISSN: 1976-7277. IMPACT FACTOR 0.164.
97. "Automatic Infant Cry Analysis for the Identification of Qualitative Features to Help Oportune Diagnosis", María A. Ruiz Díaz, **Carlos A. Reyes García**, Luis C. Altamirano Robles, Jorge E. Xaleno Altamirano, Antonio Verduzco Mendoza, Biomedical Signal Processing and Control, Elsevier Ltd., Electronic Publication, ISSN 1746-8094, Volume 7, Issue 1, January 2012, Pages 43–49, doi 10.1016/j.bspc.2011.06.011. IMPACT FACTOR 0.734.
98. "Acoustic feature selection and classification of emotions in speech using a 3D continuous emotion model", Pérez-Espinosa, Humberto, **Reyes-García, Carlos A., Villaseñor-Pineda, Luis**, Biomedical Signal Processing and Control, Elsevier Ltd, Electronc Publication, ISSN 1746-8094, Volume 7, Issue 1, January 2012, Pages 79–87, doi: 10.1016/j.bspc.2011.02.008. IMPACT FACTOR 0.734.
99. "Pattern Recognition for the Identification of Learning Styles on Educational Mobile ans Social Networks Tools", Ramón Zatarain-Cabada, M. L. Barrón-Estrada and **Carlos A. Reyes García**, in the special issue Progress in Pattern Recognition of Computacion y Sistemas, Vol. 15, No. 2, Oct-Dec, 2011, ISSN 1405-5546. Appeared at the beginning of 2012
100. "Análisis espectrográfico del llanto en recién nacidos con hipoacusia profunda y en productos de alto riesgo". Antonio Verduzco Mendoza, Emilio Arch Tirado, **Carlos Alberto Reyes Garcia**, Jaime Leybon Ibarra, Juan Licona Bonilla. In Cirugia y Cirujanos, in Vol 80, No. 1, Jan-Feb 2012. pp. 3-10

Artículos Arbitrados Publicados

101. "A Bayesian approach for object classification based on clusters of SIFT local features", **Leonardo Chang, Miriam M. Duarte, L. Enrique Sucar, Eduardo F. Morales.** Expert Systems with Applications: Volume 39 Issue 2, February, 2012, pp. 1679-1686. ISSN: 0957-4174. IMPACT FACTOR 2.203.
102. "Integrated three-dimensional reconstruction using reflectance fields." Maria-Luisa Rosas and **Miguel-Octavio Arias**, International Journal of Computer Science Issues (IJCSI), Vol. 9, Issue 1, No 3, Jan 2012. ISSN: 1694-0814. IMPACT FACTOR 0.242,
103. "Document Ranking Refinement Using a Markov Random Field Model". Esaú Villatoro, Antonio Juárez, **Manuel Montes, Luis Villaseñor, L. Enrique Sucar.** Natural Language Engineering, volume 18, issue 02, pp. 155-185. ISSN: 1351-3249. March 2012.
104. "Detección automática de fallas de baleros en un proceso de manufactura: Un estudio comparativo". **Hugo Jair Escalante**, Katia Espinosa Guevara, Arturo Berrones Santos, Mario A. Saucedo Espinosa. Ingenierías, Vol. 15(55):15--22, 2012. ISSN 1405-0676
105. "Comparación de métricas de dispersión en optimización de sistemas territoriales comerciales". Brenda Aide Peña Cantú, Roger Z. Ríos Mercado, **Hugo Jair Escalante.** Ingenierías, Vol. 15(55):23--31, 2012. ISSN 1405-0676