

**Appendix D:
Publications List
(1999-2005)**

List of Publications 1999-2005 in alphabetical order by first author last name:

1. Argüello-Serrano, B. and M. Vélez-Reyes, "Nonlinear Control of a Heating, Ventilating, and Air Conditioning System with ThermalLoad Estimation." In IEEE Transactions on Control Technology, Vol. 7, No. 1, January 1999.
2. Aguirre, C. Heredia, H. Torres, R. Palomera, and M. Jiménez, "Design of a CMOS 1.8V Low-voltage Differential Signaling Receiver" In Proceedings of the 45th IEEE Midwest Symposium on Circuits and Systems (MWSCAS 2002), IEEE Circuits and Systems Society, Tulsa, OK, Aug. 2002
3. Arce, R. and M. Jiménez, " Integer Pair Representation for Multiple Output Logic", IEEE/ACM/IFIP International Conference on Hardware/Software Codesign and System Síntesis (CODES/ISSS-2003), Newport Beach, CA, on April. 2003
4. Arnedo and K. Venkatesan "P-Spice Simulation for Conducted EMI and Over Voltage Investigation in a PWM Induction Motor Drive System" IEEE Computer Applications in Power Electronics, June 2002.
5. Arnedo, L. and K.Venkatesan, 'High frequency induction motor model for EMI and Over-Voltage studies', In Journal of Electric Power Components and Systems (USA), 2003.
6. Arnedo, L. and K.Venkatesan, ' P-Spice modeling of a PWM induction motor drive system for EMI and over-voltage studies', Proc. of IEEE Computer applications in Power Electronics workshop, Mayaguez, June 2002
7. Arroyo-Figueroa, J, Borges, J., Rodriguez, N., Cuaresma-Zevallos, A., Moulier-Santiago, E., Rivas -Aviles, M. and Yeckle-Sanchez, J. " An event /rule Framework for specifying the Behavior of Distibuted Systems", Workshop on Software Engineering in Middleware at the international Conference on Software Engineering, 2002 (SEM 2002)
8. Arzuaga, E., Jiménez, L.O., "Feature Extraction and Band Subset Selection techniques based on Relative Entropy Criteria for Hyperspectral data Analysis," SPIE AeroSense 2003, Orlando, Florida, April 2003.
9. Arzuaga-Cruz, E., L. O. Jiménez-Rodríguez, M. Vélez-Reyes, "Feature extraction and band subset selection techniques based on relative entropy criteria for hyperspectral data analysis." In Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery IX, Proceedings of SPIE Vol. 5093, April 2003.
10. E. Arzuaga-Cruz, L.O. Jimenez-Rodríguez, M. Velez-Reyes, D. Kaeli, E. Rodriguez-Diaz, H.T. Velazquez-Santana, A. Castrodad-Carrau, L.E. Santos-Campis, and C. Santiago. "A MATLAB Toolbox for Hyperspectral Image Analysis." In Proceedings IEEE International Geosciences and Remote Sensing Symposium, Alaska, September 2004.
11. Jeff Babbitt, Hosame Abu-Amara, Rose Hu, and Yi Qian, "Traffic Modeling for a High Capacity Multi-bean Satellite Network with On-board Cross-connectivity", Proceedings of IEEE VTC'2004 Spring, Milan, Italy, May 17-19, 2004.
12. Báez, Y. and M. Vélez-Reyes, "Two-Stage Identification of Motor Drives using Gray Box Models." In Proceedings of the North American Power Symposium, Rolla, MO, October 21-22, 2003.
13. Bob Best, Rose Hu, Yi Qian, and Jay Rudin, "A Heuristic Scheduling Algorithm in a Core Optical Router with Hot Spots", Proceedings of IEEE ICC'2004, Paris, France, June 20–24, 2004.
14. Bollman, D. , J. Seguel, J. Feo - "A functional Approach to Radix-r FFTs". Progress in Computer Research, Vol. I, Ed. F. Columbus, Nova Science Publishers, 2001, pp 77-103.
15. Borges, J. J. Jiménez, N. J. Rodríguez "Speech Browsing the World Wide Web", IEEE International Conference on System, Man and Cybernetics, October 1999
16. Burth, M., G.C. Verghese, and M. Vélez-Reyes, "Subset Selection for Improved Parameter Estimation in On-Line Identification of a Synchronous Generator." In IEEE Transactions on Power Systems, Vol. 14, No. 1, February 1999.

17. Carrasquillo-Rivera, I., Z. Popovic, R.A. Rodríguez Solís, "Tunable Slot Antenna Using Varactors and Photodiodes," 2003 IEEE Antennas and Propagation International Symposium, Columbus, OH, June 2003, vol. 4, pp. 532-535.
18. Castro-Vilaró, A.M. and R.A. Rodríguez Solís, "Tunable Folded Slot Antenna with Ferroelectric Material," 2003 IEEE Antennas and Propagation International Symposium, Columbus, OH, June 2003, vol. 2, pp 549-552.
19. Chai, S.M., Antonio Gentile, Wilfredo E. Lugo-Beauchamp, José L. Cruz-Rivera, D. Scott Wills, "Hyper-spectral Image Processing Applications on the SIMD Pixel Processor for the Digital Battlefield," 1999 IEEE Workshop on Computer Vision Beyond the Visible Spectrum, pp. 130-138, (Fort Collins, Colorado, 21-22 June 1999).
20. Shafaq Chaudhry, Yi Qian, Ratan Guha , and Seema Bandyopadhyay, "A Collision Free MAC Layer Protocol for Event Based Data Gathering in Wireless Sensor Networks", Proceedings of HSC'2005, Huntsville, AL, October 25-27, 2005
21. Colom Ustáriz, J.G. , R.A. Rodríguez Solís, R.J. Luebbbers, "Undergraduate Research using the Finite Difference Time Domain Method for Electromagnetics," 2001 ASEE Annual Conference and Exposition Proceedings, June 2001, Albuquerque, NM.
22. Colom Ustáriz, J.G., R.R. Barton, L.A. Carpenter, R.A. Rodríguez Solís, "A Novel Graphical Technique for Selection of a Robust Design Point," 2001 ASEE Annual Conference and Exposition Proceedings, June 2001, Albuquerque, NM.
23. Colom, J. G., R. Medina and R. Rodriguez-Solis, "Design of Tunable Balanced Amplifier Using Ferroelectric Materials," Integrated Ferroelectric Journal, in press
24. Colom, J. G., R. Medina and R. Rodriguez-Solis, "Design of Tunable Balanced Amplifier Using Ferroelectric Materials," International Symposium on Integrated Ferroelectrics (ISIF 2003), March 2003.
25. Colom, J. G., R. Medina and Y. Perez, "Simulation of Single-Stage Tunable Amplifier Using Ferroelectric Materials," , Integrated Ferroelectric Journal, in press
26. Colom, J. G., R. Medina and Y. Perez, "Simulation of Single-Stage Tunable Amplifier Using Ferroelectric Materials," International Symposium on Integrated Ferroelectrics (ISIF 2003), March 2003.
27. Colom, J., Cruz-Pol S. and Sekelsky S., "An Undergraduate/Graduate Research Collaboration between UMASS and UPRM, "ASEE 2003 International Conference on Engineering Education (ICEE'03), Valencia, Spain, 2003.
28. Colom, J.G. and S.L. Cruz Pol, "Remote Sensing Modules to Increase Interest In Traditionally Difficult Courses," IGARSS 2001 Conference, Sydney Australia, July 2001
29. Colom, J.G. R. A. Rodríguez-Solís, J. Almodóvar, M. Castañeda, "Design and Simulation of a Tunable Multilayer Lange Coupler," Integrated Ferroelectrics, vol. 42, pp 313-321.
30. Colom-Ustariz, J. , R. Rodríguez-Solís, S. Vélez, S. Rodríguez-Acosta, "Frequency Agile Microwave Components using Ferroelectric Materials," SPIE 9th International Conference on Remote Sensing, Crete, Greece, September 2002, [4881-40]
31. Colón, E., U. Contreras, F. Rodríguez, E. O'Neill-Carrillo, "Development of Tools for the Study of Chaotic Behavior in Power Electronics," Proceedings of the 7th IEEE Workshop on Computers in Power Electronics, Blacksburg, VA, July 2000, pp. 168-173.
32. Colón-Díaz, Nivia, S.M. Sekelsky, and S.L. Cruz-Pol, "Cloud Images retrieval and Characterization using a Ground-based dual-wavelength millimeter radar", SPIE 9th International Symposium on Remote Sensing, Crete, Greece, 2002.
33. Concepción-Robles, M., E. O'Neill-Carrillo, "Simulation and Power Quality Analysis of Grid-Tied Inverters," Proceedings of the 35th North American Power Symposium, Rolla, MO, October 2003.
34. Couvertier, I. "A Parallel TCP/IP Offloading Framework for a TCP/IP Offloading Implementation" for the IP Based SoC Design Workshop'02, Octubre 30-31, 2002, Grenoble, Francia

35. Cruz Pol, S. L., José Maeso, Margarita Baquero “DSD characterization and computations of expected reflectivity using data from a Two-Dimensional Video Disdrometer deployed in a Tropical Environment”, IEEE IGARSS 05, Korea., 2005.
36. Cruz Pol, S. L., Margarita Baquero, V. Bringi and V. Chandrasekar, ”Rain-Rate Estimate Algorithm Evaluation and Rainfall Characterization in Tropical Environments Using 2DVD, Rain Gauges and TRMM data”, IEEE IGARSS 05, Korea, 2005.
37. Cruz Pol, S. L., “Relevance Of The Modified Model For The Microwave Brightness Temperature To The TOPEX/Poseidon Satellite Altimetry Mission” SPIE 99, Denver , CO, July 1999.
38. Cruz Pol, S. L., and C. S. Ruf, "A Modified Model for the Sea Surface Emissivity at Microwave Frequencies," IEEE Trans. on Geoscience and Remote Sensing, Vol. 38 No. 2, pp. 858-869, 2000.
39. Cruz Pol, S. L., C. S. Ruf and S. J. Keihm, "Modified Model for the Microwave Sea Surface Emissivity", IGARSS '99 Symposium, Germany, 1999Ortíz, I. and M. Jiménez, “Scalable Pipeline Insertion in Floating-point Units”, In Proceedings of IASTED Conference on Circuits, Signals, and Systems, IASTED/CSS-2003, Cancun, Mexico, May 2003
40. Cruz Pol, S.L., N. Colon and S. Sekelsky, " Multidimensional Cloud Images retrieval >From Dual Frequency Millimeter-Wave Radar", IGARSS 2001 Sydney, Australia, July 2001.
41. Cruz Pol, Sandra, Miguel Vélez, Shawn Hunt, Hamed Parsiani, Jose Colom-Ustáriz, Luis O. Jimenez, Ramón Vasquez and Fernando Gilbes, “The Laboratory for Applied Remote Sensing and Image Processing at the University of Puerto Rico- Mayaguez, IEEE Geoscience and Remote Sensing Newsletter, pp. 15-19, December 2001.
42. Cruz-Rivera, J.L. T. K. Gaylord, and E. N. Glytsis, “Fundamentals of Optical Interconnection Technologies,” in Introduction to Microelectronics Systems Packaging Technologies (R. Tummala, ed.). New York: McGraw Hill, 2001, Chapter 12.
43. B. C. Donovan, F. Junyent-Lopez, J. M. Trabal, J. A. Torres, D. J. McLauhlin, and L. Orama, "A DCAS Network for QPE on the Island of Puerto Rico", American Institute of Aeronautic and Astronautics Conference, March 2004.
44. Duarte, J., M. Vélez-Reyes, Stefano Tarantola, Fernando Gilbes, and Roy Armstrong, “A probabilistic sensitivity analysis of water-leaving radiance to water constituents in coastal shallow waters.” In Ocean Remote Sensing and Imaging, Proceedings of SPIE Vol. 5155, August 2003.
45. Fernández, B. and M. Jiménez, “Behavioral Modeling of Switched Capacitor Integrators Based on Symbolic Admittance Matrix”, Proceedings of the “Seminario Annual de Automática, Electrónica Industrial e Instrumentación (SAEEI 2003)”, Vigo, Spain, on April 2003
46. Fernandez, F. and M. Jiménez, “Behavioral Modeling of Dynamic Capacitive Loads on Sigma-Delta Modulators” In Proceedings of the “Seminario Anual de Automática Electrónica Industrial e Instrumentación (SAAEI 2002)”, Alcalá de Henares, Spain, Sep. 2002.
47. García-Pérez, J. M. Mendoza-Sánchez, E. Olmeda, C. Ramos-Robles, E. O’Neill-Carrillo, “Monitoring, Modeling and Solving Power Quality Events,” Proceedings of the 34th North American Power Symposium, Tempe, AZ, October 2002.
48. Gentile, A., José L. Cruz-Rivera, D. Scott Wills, Leugim Bustelo, José J. Figueroa, Javier E. Fonseca-Camacho, Wilfredo E. Lugo-Beauchamp, Ricardo Olivieri, Marlyn Quiñones-Cerpa, Alexis H. Rivera-Ríos, Iomar Vargas-Gonzáles, and Michelle Viera-Vera, "Real time image processing on a focal plane SIMD Array," 1999 IPPS Workshop on Parallel and Distributed Real Time Systems, pp. 400-405, (12-16 April 1999, San Juan, PR.).
49. González-Carrasquillo, L.C. and A.A. Irizarry-Rivera. “Calculation of Capacity Value of a Wind Farm in Puerto Rico’s Electric Power System,” Sustainable Applications for Tropical Island States (SATIS '99), San Juan, Puerto Rico, August 25-27, 1999.
50. H. Parsiani, R. Gonzalez, “Iterated Block Matching Fractals with Parent & Child,” presented at Signal and Image Processing , SIP’2000, Nov. 19-23, 2000, Las Vegas, Nevada.
51. Hernández-Mora, M., J.E. González, and M. Vélez-Reyes, “Simulating and Validating the Electro-thermal Behavior of Generation II IPeM”. In Proceedings of the ASME International Mechanical Engineering Congress, Washington, DC, November 16 - 21, 2003.

52. M. Hernández-Mora, J.E. González, M. Vélez-Reyes, J.M. Ortiz, Y.P. Pang, and E. Scott, "Dynamic reduced electrothermal model for integrated power electronic modules (IPEM)". *Journal of Electronic Packaging*. Volume 126, Issue 4, pp. 409-570. December 2004.
53. Herraiz, S., G.T. Heydt, E. O'Neill-Carrillo, "Power Quality Indices for Aperiodic Voltages and Currents," *IEEE Transactions on Power Delivery*, vol. 15, no. 2, April 2000, pp. 784 -790
54. Homburg, F. and R. Palomera, "A high speed scalable and reconfigurable fuzzy controller ", *Proceedings of the 2003 International Symposium on Circuits and Systems, ISCAS '03.*, Volume: 5 , May 25-28, 2003, pp. 797 -800
55. Homburg, F., R. Palomera, Architecture of a high speed scalable Mamdani fuzzy controller, *Proc. of the Seminario Anual de Automatica, Electronica e Instrumentacion 2002*, vol 2, pp. 121-125, Alcala de Henares, España, 2002
56. Homkes, R. and Vega-Riveros, J.F. Mirroring industry through international student projects. Keynote conference. *Proceedings of the 2nd Asia-Pacific Forum on Engineering and Technology Education*. 4-7 July 1999, Sydney, Australia, pp 33-36 (Keynote Address). Diamond Award to the best paper of the Forum. Full paper review
57. Rose Q. Hu, Robert Best, Yi Qian, and Mingzhou Jin, "A Scheduling Algorithm in a Core Optical Router with Heterogeneous Traffic", To appear in *International Journal on Wireless and Optical Communications*.
58. Rose Q. Hu, and Yi Qian, "Traffic Modelling and Performance Evaluation for a Broadband Satellite Network with On-Board Processor", *Proceedings of IWSSC 2005*, Siena, Italy, September 8 – 9, 2005.
59. Rose Q. Hu, Robert Best, Yi Qian, and Mingzhou Jin, "A Scheduling Algorithm in a Core Optical Router with Heterogeneous Traffic", *Proceedings of the 19th International Teletraffic Congress*, Beijing, China, August 29 – September 2, 2005.
60. Huaman-Quellon, E. O'Neill-Carrillo, " Analysis and Mitigation of Non Ideal Supply Effects in an Induction Motor Using Curve Fitting Algorithm," *Proceedings of the 35th North American Power Symposium*, Rolla, MO, October 2003.
61. Hunt, S. and Diego Rivera, "Pattern Recognition in Hyperspectral Imagery using Feedback," *Proceedings of the SPIE's 9th international Symposium on Remote Sensing*, 23 - 27 September 2002, Crete, Greece.
62. Hunt, S. and Heidy Sierra, "Spectral Oversampling in Hyperspectral Imagery," *Proceedings of the SPIE*, vol. , pp., April 2003.
63. Hunt, S. D. and M. Vélez-Reyes, "Band selection for lossless image compression." In S.S. Shen and M.R. Descour, editors, *Algorithms for Multispectral, Hyperspectral, and Ultraspectral Imagery VII*, *Proceedings of SPIE Vol. 4381*, April 2001.
64. Hunt, S.D., "Nonlinear Predictors for Lossless Compression of AVHRR Imagery," *Proceeding of the SPIE*, vol.3717, pp. 198-203, April 1999.
65. Hunt, S.D., "Subsurface Sensing using Hyperspectral Imagery". *Proc. Signal and Imaging Sciences Workshop*, Center for Advanced Signal and Imaging Sciences, Lawrence-Livermore National Laboratory, Nov 18-20, 2001.
66. Irizarry-Rivera, A.A. and J.D. McCalley. "Risk of Insecurity", *Euro Conference on Risk Management in Power System Planning and Operation in a Market Environment (RIMAPS 2001)*, Porto, Portugal, September 8-11, 2001
67. Irizarry-Rivera, A.A., and Ivette Malpica Crespo. "Monolinela Animado y Equivalente del Sistema Eléctrico Existente en Puerto Rico: Una Herramienta de Enseñanza," *IX Simposio de Ingeniería Eléctrica*, Universidad Central de las Villas, Santa Clara, Cuba, February 24-27, 1999
68. Irizarry-Rivera, A.A., Wenceslao Torres and Efran Paredes. "Evaluation and Technology Review of Energy Storage for the PREPA System", *Electric Energy Storage Applications and Technologies Conference*, Orlando, Florida, September 18-20, 2000

69. Islam, S.M., C. Nayar, D. Ramírez-Castro, E. O'Neill-Carrillo, J. Santiago-Pérez, "Power Quality Issues in Hospitals," Proceedings of the Australasian Universities Power Engineering Conference (AUPEC), September 23-26, 2001, Perth, Australia, Paper #13, Session B2
70. Jáurregui, L. and M. Vélez-Reyes, "Conditioning Analysis of Parameter Estimation in a Synchronous Generator." In Proceedings of the 34th Annual North American Power Symposium, October 14-15, 2002.
71. Jáurregui, L. and M. Vélez-Reyes, "Conditioning Analysis of Parameter Estimation in a Synchronous Generator." In Proceedings of the IEEE International Electric Machines and Drives Conference, Cambridge, MA, June 2001.
72. Jiménez, L.O. and J. Rivera-Medina, "On the Integration of Spatial and Spectral Information in Unsupervised Classification for Multispectral and Hyperspectral Data." SPIE Conference, Florence, Italy, September 1999.
73. Jiménez, L.O., A., Morales, A., Creus, "Classification of Hyperdimensional Data Based On Feature and Decision Fusion Approaches Using Projection Pursuit, Majority Voting, and Neural Networks," IEEE Transactions on Geoscience and Remote Sensing, Vol. 37, No. 3, May 1999, pp.1360-1366.
74. Jiménez, L.O., Landgrebe, D.A., Hyperspectral Data Analysis and Supervised Feature Reduction Via Projection Pursuit, IEEE Transactions of Geoscience and Remote Sensing, Vol 37, No. 6, November 1999, pp. 2653-2667.
75. Jiménez, L.O., M. Vélez-Reyes, Y. Chaar, F. Fontan, and C. Santiago, "Partially Supervised Detection Using Band Subset Selection in Hyperspectral Data." In Algorithms for Multispectral and Hyperspectral Imagery V, Proceedings of SPIE, Vol. 3717, Orlando Florida, April 1999.
76. Jiménez, L.O., Rodriguez-Diaz, E., Vélez-Reyes, M., DiMarzio, C., "Image Reconstruction and Subsurface Detection by the Application of Tikhonov Regularization to Inverse Problems in Hyperspectral Images," SPIE Asia-Pacific, Hangzhou China, October 2002.
77. Jiménez, M. and M. Shanblatt, "Integrating a Low-Power Objective into the Placement of Macro Block-based Layouts" In Proceedings of the 44th IEEE Midwest Symposium on Circuits and Systems (MWSCAS 2001), IEEE Circuits and Systems Society, Dayton, OH, Aug. 2001.
78. Jiménez, M. with M. Shanblatt, "A Low-power Approach to the Placement of Macro Block-based VLSI Layouts", In Proceedings of the "Seminario Anual de Automática Electrónica Industrial e Instrumentación (SAAEI 2001)", Matanzas, Cuba, September 2001.
79. Jiménez, M., D. Rodriguez and N. Santiago, "Scalable Floating Point FPGA Cores for Digital Signal Processing", In Proceedings of the "Seminario Anual de Automática Electrónica Industrial e Instrumentación (SAAEI 2001)", Matanzas, Cuba, September 2001.
80. Jiménez-Rodríguez, L. O., M. Vélez-Reyes, E. Arzuaga, "Unsupervised feature extraction techniques for hyperspectral data and its effects on unsupervised classification." In Image and Signal Processing for Remote Sensing VIII, Proceedings of SPIE Vol. 4885, September 2002.
81. Jiménez-Rodríguez, L.O., E. Rodriguez-Diaz, M. Vélez-Reyes, F. Gilbes, C. A. DiMarzio, "Automatic coral reef detection by the application of Tikhonov regularization to inverse modeling in hyperspectral images." In Ocean Remote Sensing and Applications, Proceedings of SPIE Vol. 4892, October 2002.
82. Jiménez-Rodríguez, L.O., M. Vélez-Reyes, J. Rivera-Medina, and H. Velásquez, "Unsupervised Decision Fusion for Hyperspectral Data." In Image and Signal Processing for Remote Sensing VII, Proceedings of SPIE, Vol. 4541, September 2001.
83. Juan, E.J., Jeffrey Mansfield and George R. Wodicka, Fellow IEEE. "Miniature Acoustic Guidance System for Endotracheal Tubes" Transactions on Biomedical Engineering Vol 49, No 6 June 2002.
84. Juan, E.J., Mansfield, J.P., Wodicka, G.R., "In-line Acoustic System to Position and Monitor Infant-sized Endotracheal Tubes", World Congress on Medical Physics and Biomedical Engineering, Chicago, IL, July 2000
85. Prashant Krishnamurthy, David Tipper, and Yi Qian, "The Interaction of Security and Survivability in Hybrid Wireless Networks", invited paper, WIA'2004, Proceedings of The 23rd IEEE

- International Performance Computing and Communications Conference, Phoenix, Arizona, April 14-17, 2004.
86. León, L., S. Cruz-Pol, & S. Sekelsky , "Active Rain Gauge Concept for Moderate to Heavy Precipitation Using W-band and S-Band Doppler Radars", , IGARSS03, Toulouse, France, 2003
 87. León-Colón, L.V. , S.L. Cruz-Pol, and S.M. Sekelsky, "Active Rain-Gauge Concept for Liquid Clouds using Vertically oriented W-band and S-band Doppler radars", SPIE 9th International Symposium on Remote Sensing, Crete, Greece, 2002.
 88. López-Rivera, N.D. and R.A. Rodríguez Solís, "Impedance Matching Technique for Microwave Folded-Slot Antennas," 2002 IEEE Antennas and Propagation International Symposium, San Antonio, TX, June 2002, vol. III, pp. 450-453.
 89. López-Rivera, N.D. and R.A. Rodríguez Solís, "Input Impedance and Resonant Frequency Characterization of Folded Slot Antennas through DOE Techniques," 2003 IEEE Antennas and Propagation International Symposium, Columbus, OH, June 2003, vol. 2, pp. 545-548
 90. Vidya Manian, Luis O. Jimenez and Miguel Velez-Reyes, "A comparison of statistical and multiresolution texture features for improving hyperspectral image classification." In Proceedings SPIE: Image and Signal Processing for Remote Sensing XI, Vol. 5982, September 2005.
 91. Manian, V. and R. Vasquez, "A genetic algorithm for texture description and classification", Proceedings of AeroSense'02, April 2002.
 92. Manian, V. and R. Vasquez, Approaches to color and texture based image classification, Journal of Optical Engineering, SPIE, 2002.
 93. Manian, V., A. Vega and R. Vasquez, "Comparison of feature selection algorithms for texture image classification", Proceedings of AeroSense'01, April 2001.
 94. Martinez-Navedo, T., J. Garcia-Perez, B. Rodriguez-Medina, E. O'Neill-Carrillo, "Power in Electronics Systems for Distribution Reliability and Quality," Proceedings of the 33th North America Power Symposium, College Station, TX, October 2001.
 95. Masalmah, Y. and M. Vélez-Reyes, "Clutter Modeling Modeling for Subsurface Detection in Hyperspectral Imagery using Markov Random Fields". In Imaging Spectrometry X, Proceedings of SPIE Vol. 5159, August 2003.
 96. Y.M. Masalmah, M. Vélez-Reyes, and S. Rosario-Torres, "An Algorithm for Unsupervised Unmixing of Hyperspectral Imagery using Positive Matrix Factorization." In Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery XI, Proceedings of SPIE Vol. 5806, pp. 703-710, April 2005.
 97. McLaughlin, D. , V. Chandrasekar, K. Droegemeier, S. J. Frasier, J. Colom, J. Kurose, and S. Cruz-Pol. "Distributed Collaborative Adaptive Sensing (DCAS) for Improved Detection, Understanding, and Prediction of Atmospheric ", 2005 American Meteorological Society (85th AMS Annual Meeting), Ninth Symposium on Integrated Observing and Assimilation Systems for the Atmosphere, Oceans, and Land Surface (IOAS-AOLS), 2005.
 98. McKnight, S. G. Tadmor, M. Ruane, R. Rodriguez-Solis and G. Saulnier, "Creating "High-Tech Tools & Toys Lab" Learning Environments at Four Universities," 32nd ASEE/IEEE Frontiers in Education Conference, Boston, MA, Nov. 2002, p. S3E-7.
 99. Méndez-Goyco, A., V. Oliveras-Martínez, E. O'Neill-Carrillo, J. García-Pérez, D. Rodríguez, "PV Systems in Electric Power Grids," Proceedings of the 34th North American Power Symposium, Tempe, AZ, October 2002.
 100. Morales J., J. Trabal, S. L. Cruz-Pol, and S. M. Sekelsky, "Ice Water Content (IWC) Retrieval from Cirrus Clouds Using Millimeter-Wave Radar and In-Situ Ice Crystal Airborne Data," IEEE IGARSS 05, Korea., 2005.
 101. Morales, J.; Trabal, J., Cruz-Pol, S. and Sekelsky, S., "Cirrus Clouds Millimeter-Wave Reflectivity Comparison with In-Situ Ice Crystal Airborne Data", SPIE 04, Hawaii, Nov 8-12, 2004.
 102. S. Morillo-Contreras, M. Vélez-Reyes, and S.D. Hunt, "A comparison of noise reduction methods for image enhancement in classification of Hyperspectral imagery." In Algorithms and

- Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery XI, Proceedings of SPIE Vol. 5806, pp. 384-392, April 2005.
103. S. Morillo-Contreras, M. Vélez-Reyes, S.D. Hunt, "Effects of Resolution Enhancement and Atmospheric Correction Pre-Processing in Classification of Hyperspectral Imager." In Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery X, Proceedings of SPIE Vol. 5425, April 2004.
 104. Nava, D. Rodriguez, "Modeling and Simulation of SAR Point Spread Functions for Imaging Surface Geophysics Applications," SOVG XI Geophysical Congress, Caracas, Venezuela, Nov. 2002
 105. Navarro, J., J.A. Borges, N. Rodriguez, and M. Jiménez, "Electronic Academic Counseling System" *Frontiers in Education* 2002, Nov.2002.
 106. O'Neill-Carrillo, E., B. Banfai, G.T. Heydt, J. Si, "EMTP Implementation of Nonlinear Load Models," *Journal of Electric Power Components and Systems*, vol. 29, no. 9, September 2001, pp. 809-819.
 107. O'Neill-Carrillo, E., G.T. Heydt, E. Kostelich, "Chaotic Phenomena in Power Systems: Detection and Applications," *Journal of Electric Machines and Power Systems*, vol. 27, no. 1, January 1999, pp. 79-91.
 108. O'Neill-Carrillo, E., G.T. Heydt, E. Kostelich, S. Venkata, A. Sundaram, "Nonlinear Deterministic Modeling of Highly Varying Loads," *IEEE Transactions on Power Delivery*, vol. 14, no. 2, April 1999, pp. 537-542.
 109. O'Neill-Carrillo, E., J. Arroyo-Figueroa, J. Rosado, J. Santiago, "The Atmospheric Phenomena Laboratory: Connecting Electrical and Computer Engineering through Undergraduate Research," *Proceedings of the 32nd ASEE/IEEE Frontiers in Education Conference*, Boston, MA, November 2002.
 110. O'Neill-Carrillo, E., T. Martínez, A. Méndez-Goyco, V. Oliveras, "Simulation Tools for Power Electronics Applications in Power Systems," *Proceedings of the 8th IEEE Workshop on Computers in Power Electronics*, Mayagüez, PR, June 2002.
 111. L. R. Orama , "Numerical Modeling of Vacuum Arc Dynamics at Current Zero Using ATP", *International Conference on Power System Transients IPST 05*, Montreal, June 2005.
 112. L. R. Orama ,B. C. Donovan, F. Junyent-Lopez, J. M. Trabal, J. A. Torres, D. J. McLauhlin, and, "Student Developed DCAS Radar Network for QPE", *Proceedings of the American Society for Engineering Education Annual Conference*, June 2005.
 113. Ortiz, J.L., "Finite-State Grammatical model And Parser For Traffic Controller Commands." *IITSEC (Interservice /Industry Training, Simulation and Education Conference)* Nov 2000.
 114. Ortiz, J.L., "Fuzzy Synthatic Parser for Command Language Recognition Under Adverse Conditions" *IITSEC (Interservice / Industry Training, Simulation and Education Conference)* Orlando, Fl Nov.2001.
 115. Ortiz, J.L., M. Valle, "DCG Syntactic Parser for Command Language Recognition Under Special Conditions." *Software Engineering and Applications (SEA 2002) Conference*. Boston, MA. Nov 2002
 116. Ortiz, J.L., M. Sotomayor, "Intelligent Parser Simulator for Speech Recognition under Special Conditions." *The Interservice/Industry Training, Simulation and Education Conference (IITSEC2003)*, December 1-4 2003, Orlando, Fl.
 117. Ortiz, J.L., R.Pineiro," EVOLUTIONARY LEARNING ALGORITHM FOR MORPHOLOGICAL PERCEPTORS." *The Third IASTED International Conference on Artificial Intelligence and Applications (AIA 2003)*, September 8-10, 2003, Benalmádena, Spain.
 118. Ortiz, J.L., H. Parsiani,L. Tolstoy, "Application of morphological associative memories and Fourier descriptors for recognition of noisy subsurface images." *SPIE International Symposium Remote Sensing Europe*, 8 - 12 September 2003. Barcelona, Spain
 119. Ortiz, J.L. C. Ocasio, "Analog Hardware Model for Morphological Neural Networks." *IASTED International Conference in Neural Networks and Computational Intelligence (NCI 2003)*. Cancun,

- Mexico. May 2003. Palomera-García, R., Antoni M.-Lazaro "Decision Making: A flaw in engineering education?", Proc. of the ICEE2003, Valencia, España, julio 2003
120. J.M. Ortiz and M. Vélez-Reyes, "The Use of Edge-Enhancing Smoothing Pre-Filters to Aid in the Detection of Oceanic Features." In Proceeding 4th WSEAS International Conference in Electronics, Signal Processing, and Control, Rio de Janeiro, Brazil, April 2005.
 121. J.M. Ortiz-Rodríguez, A.R. Hefner, M. Vélez-Reyes, M. Hernández-Mora, J. González, J.Z. Chen, Y.F. Pang, D. Boroyevich, "Lumped-Parameter Thermal Modeling of an IPEM using Thermal Component Models." In Proceedings IEEE Workshop on Computer Applications in Power Electronics, August 2004.
 122. Palomera-García, R., Antoni M.-Lazaro "Reflections on Undergraduate research and Industrial Practice: A winning combination", Proc. of the ICEE2003, Valencia, España, julio 2003
 123. Parrilla, Z., J.J. Rodríguez, A. Hefner and M. Vélez-Reyes, "A Computer-Based Testbed for Validation of Electrothermal Models for Power Electronic Modules." In Proceedings IEEE Workshop on Computer Applications in Power Electronics, June 2002.
 124. Perez, F. , K.Venkatesan and R.L.Patterson, 'Low temperature performance of a closed loop three level Buck converter', Proceedings of IEEE international conference on Power Electronics and Drives, Hong Kong, July 1999."
 125. Perez, F. and K.Venkatesan, 'Optimal control of a three level D.C to D.C converter', Proceedings of IEEE Applied Power Electronics Conference, Dallas, March 1999.
 126. Pérez-Guerrero, E. O'Neill-Carrillo, D. Rodríguez-Sanabria, "A Phasor Dynamic Approach for Inrush Current Analysis," Proceedings of the 35th North American Power Symposium, Rolla, MO, October 2003.
 127. Pérez-Quiñones, M. and J. L. Cruz-Rivera, "An Integrated Development Environment for a Microcontroller Systems Virtual Laboratory," Frontiers In Education 99, (San Juan Nov 10–13, 1999).
 128. Petrovic, V., A. M. Stankovic, and M. Vélez-Reyes, "Sensitivity analysis of injection--based position estimation in PM synchronous motors." In Proceedings of the 4th IEEE International Conference on Power Electronics and Drive Systems, 22-25 October 2001, Bali.
 129. Yi Qian, Rose Q. Hu, and Catherine Rosenberg, "Integrated Connection Admission Control and Bandwidth on Demand Algorithm for a Broadband Satellite Network with Heterogeneous Traffic", To appear in IEICE Transactions on Communications.
 130. Yi Qian, and David Tipper, "Adaptive Channel Allocation Scheme For Next Generation Wireless Networks", Proceedings of IEEE VTC'2004 Fall, Los Angeles, CA, September 26-29, 2004.
 131. Yi Qian, and Rose Hu, "An End-to-End QoS Provisioning Framework for Voice over IP Networks", Proceedings of XVth International Symposium on Services and Local Access, Edinburgh, Scotland, UK, March 21-24, 2004.
 132. Ramirez, M., Jiménez, L.O., "Regularization Techniques for Parameter Estimation and Object Detection on Hyperspectral Data," SPIE AeroSense 2003, Orlando, Florida, April 2003.
 133. Ramírez-Castro, D., E. O'Neill-Carrillo, J. Santiago, "Assessment of Harmonics at a Medical Facility," Proceedings of the 9th IEEE International Conference on Harmonics and Quality of Power, October 2000, vol. II, pp. 619-624.
 134. Ramos, J. and M. Vélez-Reyes, "Comparison of Parameter Conditioning in Output Error and Equation Error Approaches for Speed and Parameter Estimation in Induction Machines". In Proceedings of the IEEE International Electric Machines and Drives Conference, Cambridge, MA, June 2001.
 135. Rentel-Gómez, C. and M. Vélez-Reyes, "Decoupled Control of Temperature and Relative Humidity using a Variable-Air-Volume HVAC System and Non-interacting Control." In Proceedings of the IEEE Conference on Control Applications, September 5-7, 2001, Mexico.
 136. Rivera, R. and M. Vélez-Reyes, "Gray-Box Modeling of Electric Drive Systems using Neural Networks." In Proceedings of the IEEE Conference on Control Applications, September 5-7, 2001, Mexico.

137. Rivera, W. "Stability analysis of numerical boundary conditions in domain decomposition algorithms," *Journal of Applied Mathematics and Computation*, Accepted December 2001.
138. Rivera, W. and J. Zhu, "A scalable parallel algorithm for solving parabolic partial differential equations," *Journal of Parallel Computing*, Accepted April 2001.
139. Rivera, W. and J. Zhu, "A scalable parallel domain decomposition algorithm for solving time dependent partial differential equations," in *Proceedings of the International Conference on Parallel and Distributed Processing Technology and Applications*, edited by H. R. Arabnia, CSREA Press, Athens GA, pp. 240-246, 1999
140. Rivera, W., "A genetic algorithm for solving the Euclidean distance matrices completion problem," in *Proceedings of the ACM Symposium on Applied Computing*, edited by J. Carroll, H. Haddad, D. Oppenheim, B. Bryant, G.B. Lamont, pp. 286-290, 1999.
141. Rivera, W., "Adaptivity Support For Computational Grid-Aware Clusters," in *Proceedings of the 6th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2002)*, Orlando, USA, 2002.
142. Rivera, W., "Molecular configurations and Euclidean distance matrices," *Mathematical Physics, AMS/IP Studies in Advanced Mathematics*, edited by V. Alexiades and G. Siopsis, American Mathematical Society, Providence RI, and International Press, Cambridge MA, pp. 459-465, 1999.
143. Rivera, W., "Scalable parallel genetic algorithms," *Artificial Intelligence Review*, 16(2): 153-168, 2001.
144. Rivera, W., J. Zhu, and D. Huddleston, "An Efficient Parallel Algorithm for Solving Unsteady Euler Equations" *Parallel Computational Fluid Dynamics: Practice and Theory*, P. Wildersd, A. Ecer, J. Perianux, N. Satofuka, and P. Fox Eds. 293-300, Elsevier Science, Amsterdam, 2002
145. Rivera, W., J. Zhu, and D. Huddleston, "Parallel performance investigation of a domain decomposition algorithm," in *Proceedings of the Tenth SIAM Conference on Parallel Processing for Scientific Computing*, 2001.
146. Rivera, W., J. Zhu, and D. Huddleston, "An efficient parallel algorithm for solving unsteady nonlinear equations," in *Proceedings of the 30th International Conference on Parallel processing*, Valencia, Spain, 2001.
147. Rivera, W., J. Zhu, and D. Huddleston, "An efficient parallel algorithm with application to computational fluid dynamics," *Journal of Computers & Mathematics with Applications*, Accepted January 16, 2001.
148. Rivera-Medina, J.L., Jiménez, L.O., Vélez-Reyes, M., Ramirez-Vélez, M. D., "Unsupervised Classification of High Spatial and Spectral Resolution Data based on the Unsupervised ECHO Classifier," *Proceedings of IGARSS, 2000*, Honolulu, Hawaii.
149. Pedro I. Rivera-Vega, Yi Qian, and Manuel Rodríguez-Martínez, "A Peer-to-Peer System to Provide Internet-based Asynchronous Educational Services", *Proceedings of The 6th International Conference on Information Technology Based Higher Education and Training*, Santo Domingo, Dominican Republic, July 7-9, 2005.
150. Rodríguez Solís, R.A. , Ana M. Medina, Néstor López, "Microstrip Patch Antenna Encircled by a Trench," *IEEE Antennas and Propagation International Symposium*, Salt Lake City, UT, July 2000, pp. 1620-1623.
151. Rodríguez, D., "A Computational Kronecker-core Array Algebra SAR Raw Data Generation Modeling System," *IEEE 35th Asilomar Conference on Signals, Systems, and Computers*, Monterrey, California, Nov. 2001.
152. Rodríguez, D., "Signal Algebra Operators for SAR PSF Hardware Computations," *NASA, AIRSAR Workshop*, NASA JPL, Pasadena, March 2002.
153. Rodríguez, D., A. Quinchanegua H. Nava, "Signal Operator Cores for SAR Real Time Processing Hardware," *IEEE IGARSS 2002*, Toronto, Canada, July 2002.
154. Rodríguez, D., D. Rueda, H. Nava, A. Quinchanegua, "High Performance SAR Raw Data Generation Algorithms for Remote-sensed Imaging Applications," *IEEE IGARSS 2002*, Toronto, Canada, July 2002.

155. Rodríguez, D., E. O'Neill-Carrillo, "Education Modules for Distributed Generation in Power Systems," Accepted to the Power Systems Conference: Distributed Generation and Advanced Metering, March 2003, Clemson, SC.
156. Rodríguez, D., E. O'Neill-Carrillo, M. Concepción, J. García-Pérez, "Impact of Distributed Generation in Electric Power Systems," Proceedings of the 34th North American Power Symposium, Tempe, AZ, October 2002.
157. Rodríguez, J., Z. Parrilla, M. Veléz-Reyes, University of Puerto Rico at Mayagüez, PR; A. Hefner, D. Berning, National Institute of Standards and Technology, USA; J. Reichl, J. Lai, Virginia Polytechnic Institute and State University, "Thermal Component Models for Electro Thermal Analysis of Multichip Power Modules." In Proceedings of the IEEE/IAS Annual Meeting, October 2002.
158. Rodríguez, M., Wide Area Query Execution in "Mocha" , 2002 IASTED IKS International Conference St. Thomas, Virgin Islands
159. Rodriguez, N.J., Borges, J.A., Murillo, V., Sands, D.Z., and Ortiz,J.. A Usability Study of Physicians Interaction with a Paper-Based Patient Record System and a Graphical-Based Electronic Patient Record System., Proc AMIA Symp 2002, November 2002.
160. Rodriguez, N.J., Murillo, V., Borges, J.A., Sands, D.Z., Ortiz, J. " A study of physicians Interaction with Text-Based and Graphical -Based Electronic Patient Record Systems" Proceedings of the 15th IEEE International Symposium on Computer -Based Medical Systems, June 2002.
161. Rodríguez-Acosta, S., R.A. Rodríguez Solís, J.G. Colom Ustáriz, "Design and Characterization of a Tunable Aperture Coupled Microstrip Patch Antenna with Ferroelectric Films", accepted for 2003 IEEE Antennas and Propagation International Symposium, Columbus, OH, June 2003, vol. 4, pp. 536-539.
162. Rodriguez-Diaz, E., L. O. Jiménez-Rodriguez, M. Vélez-Reyes, "Subsurface detection of coral reefs in shallow waters using hyperspectral data." In Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery IX, Proceedings of SPIE Vol. 5093, April 2003.
163. Rodriguez-Diaz, E., M. Vélez-Reyes, Univ. of Puerto Rico/Mayaguez, R. K. Chin, C. A. DiMarzio, Northeastern Univ., "Wavelength selection for imaging hemoglobin in skin." In Subsurface Sensing Technologies and Applications II, Proceedings of SPIE, Vol. 4129, San Diego California, July 2000.
164. Rodriguez-Martinez, M. , Nick Roussopoulos, "Automatic Deployment of Application-Specific Metadata and Code in MOCHA" In Proceedings of the 7th Conference on Extending Database Technology (EDBT 2000), Konstanz, Germany, pp. 69-85, March 2000.
165. Rodriguez-Martinez, M. , Nick Roussopoulos, "MOCHA: A Self-Extensible Database Middleware System for Distributed Data Sources" In Proceeding of the ACM SIGMOD International Conference on Management of Data, Dallas, Texas, USA, pp. 213-224, May 2000.
166. Rodríguez-Medina, B., L. Orama, and M. Vélez-Reyes, "Arc Model Parameter Extraction Techniques using Nonlinear Least Squares." In Proceedings of the North American Power Symposium, Rolla, MO, October 21-22, 2003.
167. Rodríguez-Sanabria, E. O'Neill-Carrillo, "Modeling Harmonic Impact and Mitigation Tools in Distribution Systems using ATP," Proceedings of the 35th North American Power Symposium, Rolla, MO, October 2003.
168. Rosado-Roman, J. M., W. E. Swartz, D. T. Farley, and C. Seyler, Coherent scatter radar instabilities observed over Arecibo, American Geophysical Union: AGU Spring Meeting, Boston, MA, USA, May 2001
169. Rosado-Roman, J. M., W. E. Swartz, D. T. Farley, and C. Seyler., Coherent scatter radar instabilities observed over Arecibo and proposed non-local linear theory, 2001-CEDAR-SCOSTEP meeting, Longmont, CO, USA, June 2001.

170. S. Rosario-Torres and M. Vélez-Reyes, "An algorithm for fully constrained abundance estimation in hyperspectral unmixing." In Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery XI, Proceedings of SPIE Vol. 5806, pp. 711-719, April 2005.
171. S. Rosario-Torres, E. Arzuaga-Cruz, M. Velez-Reyes and L.O. Jiménez-Rodríguez, "An Update on the MATLAB Hyperspectral Image Analysis Toolbox." In Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery XI, Proceedings of SPIE Vol. 5806, pp. 743-752, April 2005.
172. Salazar-Cerreño, J.L. and R.A. Rodríguez Solís, "Broadband Log-Periodic Normal Mode Helical Antenna," 2003 IEEE Antennas and Propagation International Symposium, Columbus, OH, June 2003, vol. 1, pp. 249-252.
173. Santiago, N.G., Diane T. Rover, D. Rodriguez, "Subset Selection of Performance Metrics Describing System-Software Interactions," Supercomputing 2002, Baltimore, MD, Nov. 2002
174. Santiago, N.G.; Rover, D.T.; Rodriguez, D., A statistical approach for the analysis of the relation between low-level performance information, the code, and the environment. The 4th Workshop on High Performance Scientific and Engineering Computing with Applications, HPSECA-02 August 18-21, 2002 Vancouver, British Columbia, Canada Page(s): 282 -289
175. Seguel, J. - A Unified Treatment of Symmetric FFT Code Generation. IEEE Transactions on Signal Processing, vol 50, November 2002.
176. Seguel, J., "A new Prime Edge Length Cristallographic FFT" Lecture Notes in Computer Science 2330 Elsevier, pp 548-557, 2002.
177. Seguel, J., D. Bollman, E. Orozco - New Prime Edge-Length Crystallographic FFT. Presented at ICCS, Amsterdam, The Netherlands, 2002
178. Sek M. Chai, Antonio Gentile, Wilfredo E. Lugo-Beauchamp, Javier Fonseca, José L. Cruz-Rivera, D. Scott Wills, "Focal Plane Processing Architectures for Real-time Hyperspectral Image Processing," Applied Optics. Jan. 2000
179. Seok Yee Tang, Shyamalie Thilakawarda, Rahim Tafazolli, and Yi Qian, "Performance Analysis of Predictive Scalable Resource Allocation for Integrated Wireless Networks", Proceedings of IEEE WirelessCom 2005, Maui, Hawaii, June 13-16, 2005.
180. Seok Yee Tang, Shyamalie Thilakawarda, Rahim Tafazolli, and Yi Qian, "Efficient Radio Resource Management for Future Mobile Wireless Networks Using Scalable Resource Allocation Algorithm", Proceedings of The 2005 International Conference on Wireless Networks, Las Vegas, Nevada, June 27-30, 2005.
181. Seok Yee Tang, Shyamalie Thilakawarda, Rahim Tafazolli, and Yi Qian, "Scalable Resource Allocation of Dynamic Multiple-Services For Next Generation Wireless Networks", Proceedings of IEEE EIT'2005, Lincoln, Nebraska, May 22-25, 2005.
182. David Tipper, Yi Qian, and Xiaobing Hou, "Modeling the Time Varying Behavior of Mobile Ad Hoc Networks", Proceedings of IEEE/ACM MSWiM'2004, Venice, Italy, October 4-6, 2004.
183. Tolstoy, L., H. Parsiani, J. Ortiz , "Application of Fourier Descriptors and Neural Network to Classification of Radar Subsurface Images", SPIE Int. Conf. 2002 Proceedings, Sept. 23-27, 2002, Crete, Greece.
184. Trabal, J, Cruz-Pol, S, Colom, J.G., Sekelsky, S, "Puerto Rico Radar Network Design; Site Survey ", IGARSS 2003, France, July 2003.
185. Tranter, E. and M. Vélez-Reyes, "Distance Learning Programs at the Center for Power Electronics Systems." In Proceedings IEEE Workshop on Computer Applications in Power Electronics, June 2002.
186. Trullols, E.; Sorribas, J.; del Rio, J.; Samitier, C.; M., A.; Palomera, R., " LabVir: a virtual distributed measurement system ", Proc. Of the 20th IEEE Instrumentation and Measurement Technology Conference, 2003. IMTC '03. , Vol. 1 , 20-22 May 2003, pp. 776-779
187. Ugarte D., Santana J., Velázquez L., Juan, E.J., "Acoustical Characterization of Impermeable Membranes: Hearing Aid Applications", Proceedings of the 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE. Cancun, Mexico, 2003.

188. Umana, A. and M. Vélez-Reyes, "Determining the dimensionality of hyperspectral imagery for unsupervised band selection." In Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery IX, Proceedings of SPIE Vol. 5093, April 2003.
189. Vasquez, R., and V. Manian, "Texture based cloud detection in MODIS images", SPIE Vol. 4882, Sept. 22-27, 2002.
190. Vega Riveros, J.F. On the architecture of Intelligent Tutoring Systems and its application to a Neural Networks course. In Innovative Teaching Tools for Neural Networks, Fuzzy Systems and Genetic Algorithms. Physisca Verlag, Heidelberg, Editor L. C. Jain, 2000
191. Vélez, B. and J. E. Valiente. Inforadar-cl: A Cross-Lingual Information Discovery Tool Exploiting Automatic Document Categorization. In Proceedings of IASTED International Conference on Information and Knowledge Sharing (IKS 2002).
192. Vélez, B. and J. E. Valiente. Interactive Query Hierarchy Generation Algorithms for Search Result Visualization Proceedings of Internet and Multimedia Systems Applications (IMSA 2001). Honolulu, Hawaii. August 2001. pp. 187-192.
193. Vélez, B. and Juan A. Torres. Anticipatory User Interfaces for Search Result Visualization using Query Lookahead. Proceedings of Americas Conference on Information Systems (AMCIS 2001).
194. Vélez, B.. The Nature of Computing. In Proceedings of IEEE 8th Workshop on Computers in Power Electronics (COMPEL 2002)
195. M.Vélez-Reyes and S. Rosario, "Solving Abundance Estimation in Hyperspectral Unmixing as a Least Distance Problem." In Proceedings IEEE International Geosciences and Remote Sensing Symposium, Alaska, September 2004.
196. M. Vélez-Reyes and R. Rivera-Sampayo, "Gray-Box Modeling of Mechanical Loads for Electric Drive Systems using Neural Networks." In Proceeding 4th WSEAS International Conference in Electronics, Signal Processing, and Control, Rio de Janeiro, Brazil, April 2005.
197. Vélez-Reyes, M. , W.L. Fung, and J.E. Ramos-Torres, "Developing Robust Algorithms for Speed and Parameter Estimation in Induction Machines." In Proceedings of the IEEE Conference on Decision and Control, 3-7 December 2001, Orlando, Florida.
198. Vélez-Reyes, M. and D.M. Linares, "Comparison of Principal-Component-Based Band Selection Methods for Hyperspectral Imagery." In Image and Signal Processing for Remote Sensing VII, Proceedings of SPIE, Vol. 4541, September 2001.
199. Vélez-Reyes, M. and E. Tranter, "Center for Power Electronic Systems: Education and Outreach Programs." In Proceedings of E=TeM2 – International Conference of the use of Information Technology in Power Engineering Education. Sponsored by EPE, Brussels, Belgium, March 2001.
200. Vélez-Reyes, M. and J.C. Tafur, "An Adaptive Feedback Linearizing Controller for a Shunt DC Motor." In Proceedings IEEE Workshop on Computer Applications in Power Electronics, June 2002.
201. Vélez-Reyes, M. S. Rosario, A. Puetz, R. B. Lockwood, "Iterative algorithms for unmixing of hyperspectral imagery." In Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery IX, Proceedings of SPIE Vol. 5093, April 2003.
202. Vélez-Reyes, M., D.M. Linares, L.O. Jiménez-Rodríguez, "Two-stage band selection algorithm for hyperspectral imagery." In Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery VIII, Proceedings of SPIE Vol. 4725, April 2002.
203. Vélez-Reyes, M., L.O. Jiménez, D.M. Linares, and H.T. Velazquez, "Comparison of matrix factorization algorithms for band selection in hyperspectral imagery." In Algorithms for Multispectral, Hyperspectral and Ultraspectral Imagery VI, Proceedings of SPIE, Vol. 4049, Orlando Florida, April 2000.
204. Vélez-Reyes, M., R. Rivera, and Y. Báez, "Gray-Box Modeling of Mechanical Loads for Electric Drive Systems using Neural Networks." In Proceedings Latin-American Congress on Automatic Control (CLCA 2002), Guadalajara, Mexico, December 2002.

205. Villa, J. M., S.L. Cruz-Pol, S.M. Sekelsky and José G. Colom-Ustáriz, "Modeling, Simulation and Comparison Study of Cirrus Clouds Ice Crystals", SPIE 9th International Symposium on Remote Sensing, Crete, Greece, 2002.
206. Villa, J., S. Cruz-Pol, and S. M. Sekelsky, "Performance of Scanning Millimeter-Wave Radar in a Tropical Environment," IGARSS 2002, Toronto, Canada, 2002.
207. Zhou, Q. H., H. Monroy, D. C. Fritts, H. M. Ierkic, B. Isham, J. R. Isler, and S. E. Palo, Radar Observation of Longitudinal Variability of Tidal/Planetary Waves and Mean Winds in the Tropical Mesosphere, *J. Geophys.Res.*, 105, 2151-2157, 2000.

