

**AAIA PRESENTATIONS
YEARS 1995 - 2000**

YEAR 95-96

M. Velez-Reyes, "**Decomposed Algorithms for Parameter Estimation**", International Congress on industrial and Applied Mathematics (ICIAM 95), Hamburg, Germany, July 3-7, 1995.

M. Velez-Reyes, "**A Nonlinear Subset Selection Method for Dynamic System Identification**", International Congress on Industrial and Applied Mathematics (ICIAM 95), Hamburg, Germany, July 3-7, 1995.

Supercomputing Conference, December 1995, San Diego, California. Dr. Ramon Vasquez.

IEEE International Conference on Systems, Man and Cybernetics, October 1995, Vancouver, Canada. Dr. Ramon Vasquez.

International Conference on Signal Processing Applications and Technology, October 24-26, 1995, Boston, Massachusetts. Dr. Ramon Vasquez, Dr. Shawn Hunt, and Dr. Domingo Rodriguez.

Land Satellite Information in the Next Decade: Conference and Exposition, American Society for Photogrammetry and Remote Sensing, September 25-28, Vienna, Virginia. Dr. Ramon Vasquez, and Dr. Miguel Velez-Reyes.

4th IEEE Conference on Control Applications, September 28-30, Albany, New York. Dr. Miguel Velez-Reyes.

ADMI Annual Workshop; Introduction of High Performance Computing into *an* Undergraduate Computing Curriculum, August 1995, New Orleans, Louisiana. Dr. Ramon Vasquez, and Dr. Miguel Velez-Reyes.

International Congress on industrial and Applied Mathematics, July 3-7, Hamburg, Germany. Dr. Miguel Velez-Reyes.

Wavelets Theory and Applications, at University of Southern California, Los Angeles, California. Dr. Hamed Parsiani.

YEAR 97-98

L.O Jimenez, "**On the Use of Remote Sensing for Land Use and Land Cover**," First Congress on Ecotourism, Jarabacoa, Dominican Republic, June 1997.

- R. Vasquez, "**El Uso de Sistemas de Información Geográfica como Herramientas de Apoyo al Ecoturismo**," First Congress on Ecotourism, Jarabacoa, Dominican Republic, June 1997.
- M. Velez-Reyes and R. Vasquez, "**Participation in the panel A Decade of Partnership: University of Puerto Rico-Mayaguez and Raytheon**". Society of Hispanic and Professional Engineers 20th Annual National Technical and Career Conference, February 4-7, Orlando, FL, 1998.
- M. Velez-Reyes, "**Power Engineering Education at the University of Puerto Rico, Mayaguez Campus**." NSF Workshop on Innovative Power Engineering Education, October 30 to November 1, Arlington, VA, 1997.
- M. Velez-Reyes, "**Parameter Estimation for Ill-Conditioned Systems with Applications to. Electric Drives and Power Systems**", NSF Workshop on Innovative Power Engineering Education, October 30 to November 1, Arlington, VA, 1997.

YEAR 98-99

- M. Ruiz, V. Manian and R. Vasquez, "**Graphical user interface for image texture processing**," In Proceedings of CRC'98, Mayaguez, PR, Dec.1998.
- J. Diaz and R. Vasquez, "**Logical transform for texture classification by an optimized FPGA architecture**," In Proceedings of CRC'98, Mayaguez, PR, Dec. 1998.
- V. Venkataraman, "**The extraction of meteorological data and the use of Unix in the process**," Proceedings of the ADMI'98, Houston, TX, June 1998. - *First place presentation award.*
- M. Rosado, "**Fractal transform as a tool for image compression**," In Proceedings of the ADMI'98, Houston, TX, June 1998. - *Second place paper award.*
- N. Rivera, "**100 miles long and 35 miles wide, can PR survive urban pressure**," Proceedings of the ADMI'98, Houston, TX, June 1998.
- Cruz Pol, Sandra and Bolet, Cariluz, "**Error Analysis for Ocean Dielectric model**", P.R. Junior Technical Meeting. 1999.
- Cruz Pol, Sandra and Bolet, Cariluz, "**Design of Experiment for Ocean Dielectric model calibration**". 10th IAP Annual Meeting, April 1999.

YEAR 99-00

Norman Lopez and Hamed Parsiani, "Predictive Lossless Image Compression based on pixels autocorrelation coefficients and a tight region of support". Proceedings of NASA URC-SC, Nashville, Tennessee, April 2000.

Jose del Toro Duran, Hamed Parsiani, "**Analysis of Fractals and Wavelets leading to an improved image compression method**". Proceedings of NASA URC-SC, Nashville, Tennessee, April 2000.

Mabel D. Ramirez-Velez, Jorge L. Rivera-Medina, Luis O. Jimenez, "**Study of different classification algorithms on AVIRIS data taken over the Kennedy Space Center, Florida**". Proceedings of NASA URC-SC, Nashville, Tennessee, April 2000.

Daphnia M. Linares, Hector T. Velazquez, Miguel Velez-Reyes, and Luis O. Jimenez, "**Fast Algorithms for Automated Band Selection in Hyperspectral Imagery**". Proceedings of NASA URC-SC, Nashville, Tennessee, April 2000.

Marlene Vargas Solleiro, Domingo Rodriguez, "Time Frequency Tools for SAR Signal Analysis". Proceedings of NASA URC-SC, Nashville, Tennessee, April 2000.

Javier Diaz-Serrano and Ramon Vasquez-Espinosa, "**Logical Transform for Texture Classification by an Optimized FPGA Architecture**". Proceedings of NASA URC-SC, Nashville, Tennessee, April 2000.

Dilia Beatriz Rueda Serrano and Domingo Rodriguez, "**Simulation Environment for Synthetic Aperture Radar Image Formation**". Proceedings of NASA URC-SC, Nashville, Tennessee, April 2000.

Yvonne Aviles and Domingo Rodriguez, "**Reconfigurable FPGA Computational Structures For Signal Processing**". Proceedings of NASA URC-SC, Nashville, Tennessee, April 2000.

Angelica M. Rondon Nieves and Dr. Ramon E. Vasquez Espinosa, "**An expert system for Image Analysis and Retrieval**". Proceedings of NASA URC-SC, Nashville, Tennessee, April 2000.

Marcel Castro, Advisors: V. Manian and R. Vasquez, "**Color image classification,**" CRC'99, UPRM, Dec 4, 1999.

Michael Diaz, Advisors; V. Manian and R. Vasquez, "**Wavelet features for color image classification,**" CRC'99, UFIRM, Dec 4, 1999.

Norman Lopez, Hamed Parsiani, "**Tredicive Lossless Image Compression (PLIC) based on pixels correlation coefficients and a tight region of support**," URC-SC'2000, conference proceedings, April 8, 2000, Nashville TN.

Rolando Gonzalez, Hamed.Parsiani, "**Modular Approach to IBMF Compression Software**", CRC'2000 Proceedings, May 6, 2000, Mayaguez, P.R.

Santos Lopez, Hamed Parsiani, "**Non-linear Least Square method applied to Iterated Block Matching Fractals (IBMF) for image compression**", CRC'2000 Proceedings, May 6, 2000, Mayaguez, P.R.

Norman Lopez, Harried Parsiani, "**Predictive Lossless Image Compression (PLIC) Algorithm and its Coding Analysis**," CRC'2000 Proceedings, May 6, 2000, Mayaguez, P.R.