

Curriculum Vitae.

Dr. Felipe Marti-Lopez,

Institutions and Degrees.

Applied Mathematics School, Bielorussian State University: B. Sc. in Mathematics and M. Sc. in Applied Mathematics (1972-1977).

Organizations and Positions.

Center for Research and Development of Industrial Automation (CEDAI), National Institute for Automation Systems and Computers (INSAC): Automation System Analyst (1977-1994).

Cuban Neuroscience Center (CNC), National Center for Scientific Researches (CNIC): Associate Researcher (1995).

Main Publications.

1.- Marti F. , Bringas M. , Gonzalez I. : “Raw Material Quality Evaluation Automated System for Industrial Processes”. In: “CID and Data Processing in Cuba”, No. 15, 1987; pp 18-20.

2.- Marti F. , Suarez B. : “Algorithm and Program Self-Protection”. In: “CID and Data Processing in Cuba”, No. 17, 1988; pp 25-27.

3.- Marti F. , Garzon L. : “Algorithms and Programs in 8051 Assembly for Fast Computing of Major Mathematical Functions (Part I)”. Digital Research Centre Selected Information Bulletin No. 6 of the Ministry of Defense, Research Series No. 3, 1992; pp 92-105.

4.- Marti F. , Garzon L. : “Algorithms and Programs in 8051 Assembly for Fast Computing of Major Mathematical Functions (Part II)”. Digital Research Centre Selected Information Bulletin No. 7 of the Ministry of Defense, Research Series No. 4, 1992; pp 104-117.

5.- Marti F. : “On a Conditionedness-Free Algorithm for Solving Linear Algebraical Equation Systems”. In : “Electronic Engineering, Automation and Telecommunications (ISPJAE)”, Vol. XV, No. 2, 1994; pp 57-62.

6.- Valdes-Sosa P. , Marti-Lopez F. , Casanova R. : “Variable Resolution Electric-Magnetic Tomography”. Proceedings of the X International Conference on BioMagnetism “BIOMAG’96”, Editor C. Woods, Philadelphia, 1996; pp 117-120.

7.- Marti-Lopez F. : “Global Convergence Properties of the Splitting Iterations for Solving Linear Least Squares Problems”. Investigacion Operativa, Volume 7, number 3, 1999; p.p. 133-142.

8.- Marti-Lopez F. : “Approximating Splitting Pseudo-Iterations”. *Investigacion Operativa*, Volume 9, numbers 1-3, 2000; p.p. 117-134.

9.- Marti-Lopez F. : “Sufficient Conditions of Existence and Uniqueness of Multilevel Linear Least Squares Solutions”. *Investigacion Operativa*, to appear.

10.- Marti-Lopez F. : “ApproxKit. A Mathematical Package of MatLab Programs and Functions for Numerically Robust Approximation of Multilinear Least Squares Solutions”. Editorial CENIC, 2000 (ISBN 959-7145-11-X, CENDA registration # 06483-6483; The MathWorks Inc. www.mathworks.com/support/ftp/linalgv5.shtml, MathTools www.Mathtools.net/MATLAB/Mathematics/index.html).

11.- Koenig T. , Marti-Lopez F. and Valdes-Sosa P. : “Topographic Time-Frequency Decomposition of Spontaneous EEG”. *NeuroImage*, Volume 14, number 1, 2001; pp. 383-390.

12.- Marti-Lopez F. and Koenig T. : “Approximating Method of Frames”. *Digital Signal Processing*, to appear.

Main Presentations and Posters.

1.- Marti F., Bringas M., Gonzalez I.: “Raw Material Quality Evaluation Automated System for Industrial Processes”. II Latinoamerican Congress of Automatic Control and X Symposium on Instruments and Control Systems, Buenos Aires, Argentina; October 13-17, 1986.

2.- Valdes P., Riera J., Marti F.: “Non-stationary Non-linear EEG Modeling”. VI International Congress of the International Society for Brain Electromagnetic Topography “ISBET’95”, Tokushima, Japan; October 10-12, 1995.

3.- Valdes P., Riera J., Casanova R., Marti F., Garcia F., Bosch J., Lins O.: “Mixed Inverse Solutions with Stochastic Generators”. X International Conference on BioMagnetism “BIOMAG’96”. Workshop on Inverse Solutions in Electric and Magnetic Tomography. Santa Fe, New Mexico, USA; February 1996.

4.- Valdes-Sosa P., Marti-Lopez F., Garcia F., Casanova R., Biscay R.: “Variable Resolution Electric-Magnetic Tomography”. VII International Congress of the International Society for Brain Electromagnetic Topography. Rio de Janeiro, Brazil; October 7-11, 1996.

5.- Marti F.: “Non-Parametric Regularization Principles”. International Conference “CIMAF’97: Science and Technology for Development”, IV Symposium on Mathematics. Havana City, Cuba; March 24-28, 1997.

6.- Marti-Lopez F.: “Further Approximating Properties of the Splitting Iterations for Solving Linear Least Squares Problems”. International Conference “CIMAF’99: Science and Technology for Development”, V Symposium on Mathematics. Havana City, Cuba; March 22-26, 1999.

- 7.- Macias F., Bosch Jorge,..., Marti-Lopez F.: "BEETLES: a software system for fitting evoked-related potential (ERP) generators, associated to cognitive processes". VI LatinoAmerican Congress of NeuroPsychology. Varadero City, Cuba; October 17-20, 1999.
- 8.- Koenig T., Marti-Lopez F.: "EEG micro-states from the child to the adult". VI LatinoAmerican Congress of NeuroPsychology. Varadero City, Cuba; October 17-20, 1999.
- 9.- Koenig T., Marti-Lopez F., Valdes-Sosa P.: "Topographic time-frequency decomposition of the spontaneous EEG". XIII Scientific Seminar of the National Center for Scientific Research. Havana City, Cuba; June 27-30, 2000.
- 10.- Marti-Lopez F.: "Sufficient conditions of existence and uniqueness of multilevel linear least squares solutions". International Conference "CIMAF'2001: Science and Technology for Development", VI Symposium on Mathematics. Havana City, Cuba; March 19-23, 2001.
- 11.- Koenig T., Marti-Lopez F., Valdes-Sosa P.: "Topographic time-frequency decomposition of the EEG". 9th German Meeting of Brain Mapping, Giessen, Germany September 21-23, 2000.
- 12.- Koenig T., Marti-Lopez F., Valdes-Sosa P.: "Topographic time-frequency decomposition of the EEG". 11th Meeting of the International Society for Brain Electromagnetic Topography (ISBET); Frankfurt, Germany, November 16-19, 2000.
- 13.- Koenig T., Marti-Lopez F., Valdes-Sosa P.: "Decomposing the EEG in time, space and frequency: A formal model, existing methods, and a new proposal". 12th Meeting of the International Society for Brain Electromagnetic Topography (ISBET); Utsunomiya, Japan, March 8-10 2001.