## **CURRICULUM VITAE**

## Mario Mastriani, Ph.D.

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Web page: http://www.untref.edu.ar/carreras\_de\_grado/ing\_computacion.htm



#### **EDUCATION**

#### Technical School:

Títle: Electronics Technician

School: E.N.E.T. Nº 12, Gral. San Martín

Specialty: Telecommunications Date of graduation: 12/10/1980

#### Degree:

Títle: Electronics Engineer, Buenos Aires University

Specialty: Automatic Control Date of graduation: 09/28/1989

#### Postgraduate Studies:

Title: Doctor of Buenos Aires University, Area: Engineering

Thesis: Techniques of Speckle Suppression in Synthetic Aperture Radar Satellite Images

Date of graduation: 05/11//2006

Title: Doctor of Buenos Aires University, Area: Computer Sciences

Thesis: Fast and High Efficiency Spatial Decorrelation for Lossy Images Compression

*Date of graduation:* 03/12//2009

#### Ph.D. Candidate of National Univ. of Gral. Sarmiento, Area: Science and Technology

*Thesis:* Single frame supercompression of still images, video, high definition TV, and digital cinema, with applications to Documentology, and medical, satellital and biometrical images.

#### Languages:

Reading, speaking and writing: English Reading: French, Italian and Portuguese

#### **Programming:**

C/C++ Java MatLab R2010b and Jacket 1.6 ENVI 4.3, IDL 6.3 Maple 14 SciLab 5.2 Octave CUDA and OpenCL

#### RESEARCH

#### Interest area:

Digital signal and image processing. Wavelets. Image restoration filtering and compression. Fast Algorithms on FPGA. Distributed Algorithms for multi-core/multi-GPU technology with CUDA and OpenGL. Computer Modeling and Computer Simulation.

#### Experience in (CONAE & INVAP S.E.):

- Filtering, compression, wavelets analysis and super-resolution of radar signals and images
- Synthetic Aperture Radar (SAR) satellite and airborne versions, Band L, Strip-Map Mode.
  - Besides: SCANSAR and Spotlight modes

Bands X and C

- Platforms: Radarsat (Canada), ERS 2 (Europe), SAOCOM (CONAE), SIR-C (NASA), and SARAT 1 (airborne of CONAE).
- Focusing Algorithms coded: Chirp- Scaling, Range Doppler, Omega-K, etc.
- Development of Speckle Supression Algorithms
- I directed the CONAE's group that developed the algorithms to focusing SARAT 1 images from the raw data signals
- Multi and hyperspectral satellite image processing: SAC-C and Quickbird
- Superresolution Algorithms for Panchromatic Satellite: EROS A/B and Quickbird
- Primary, Secondary, and 3D Radar for INVAP S.E.
- Synthetic Aperture Sonar (SAS) on AUV

#### **Current Activities (INVAP S.E.):**

Digital Signal and Inage Processing. Wavelets. Signal and Image Compression. Synthetic Aperture Radar (SAR) Focusing. Primary and Secondary Radar. 3D Radar.

## ACTIVITIES AS REVIEWER OF INTERNATIONAL ELECTRICAL AND ELECTRONIC ENGINEERS (I.E.E.E.), NEW JERSEY, USA.

Journal: Transactions on Neural Networks

Associate Editor: Thomas F. Krile

E-mail: tkrile@coe2.coe.ttu.edu, nus11@ttacs1.ttu.edu, 1994

Journal: Signal Processing Letters

Associate Editor: Prof. Amir Asif, asif@cs.yorku.ca, 2002

Associate Editor: Prof. Truong Nguyen, nguyent@ece.ucsd.edu, 2003 Associate Editor: Prof. Vince Calhoun, vince.calhoun@yale.edu, 2005

Journal: Transactions on Image Processing

Associate Editor: Dr. Eli Saber, eli.saber@usa.xerox.com, 2003

Associate Editor: Dr. Christophe Molina, christophe.molina@sanofi-synthelabo.com, 2004

(http://ieeexplore.ieee.org/iel5/83/29774/01355944.pdf)

Associate Editor: Dr. Stanley Reeves, sjreeves@eng.auburn.edu, 2004

(http://ieeexplore.ieee.org/iel5/83/29774/01355944.pdf)

Associate Editor: Prof. Bruno Carpentieri, bc@udsab.dia.unisa.it, 2006

Journal: Transactions on Signal Processing

Associate Editor: Prof. Alex Gershman, gershman@ieee.org, 2003

**Journal: Transactions on Medical Imaging** 

Associate Editor: Prof. Max Viergever, max@isi.uu.nl, 2003 Associate Editor: Prof. Murray Loew, loew@gwu.edu, 2004

Associate Editor: Prof. Michael Insana, mfinsana@ucdavis.edu, mfi@uiuc.edu, 2004, 2005

<u>Associate Editor</u>: Prof. Milan Sonka, <u>milan-sonka@uiowa.edu</u>, 2004 (2 papers) <u>Associate Editor</u>: Prof. Karl Heinz Hoehne, <u>hoehne@uke.uni-hamburg.de</u>, 2005 Associate Editor: Prof. Vasilis Ntziachristos, <u>v.ntziachristos@tum.de</u>, 2010

Journal: Transactions on Geoscience and Remote Sensing

Associate Editor: Dr. John Richards, john.richards@anu.edu.au, 2003

Journal: Geoscience and Remote Sensing Letters

Associate Editor: Dr. Jocelyn Chanussot, jocelyn.chanussot@lis.inpg.fr, 2005

Associate Editor: Dr. Joong-Sun Won, jswon@yonsei.ac.kr, 2006

**Journal: Transactions on Biomedical Engineering** 

Associate Editor: Prof. Masahiko Okada, okadar@med.niigata-u.ac.jp, 2003

<u>Journal</u>: Communications Letters (2 papers)

Associate Editor: Prof. Maode Ma, emdma@ntu.edu.sg, 2004, 2006

(http://ieeexplore.ieee.org/iel5/4234/29963/01369237.pdf)

Associate Editor: Prof. Homayoun Yousefi'zadeh, hyousefi@uci.edu, 2006 (2 papers), 2007

Journal: Transactions on Fuzzy Systems

Associate Editor: Prof. Larry May, hall@csee.usf.edu, 2004

Associate Editor: Prof. Peng Shi, pshi@glam.ac.uk, peng.shi@unisa.edu.au, 2005, 2006

Associate Editor: Prof. Sansanee Auephanwiriyakul, sansanee@eng.cmu.ac.th,

fuzzysan@gmail.com, 2005, 2006

Associate Editor: Dr. Gang Feng, MEGFENG@cityu.edu.hk, 2006

Associate Editor: Prof. Hichem Frigui, h.frigui@louisville.edu, 2006 (3 papers), 2007

Journal: Transactions on Multimedia

Associate Editor: Dr. Anna Hac, hac@spectra.eng.hawaii.edu, 2005, 2007

Journal: Transactions on Nanobioscience

Associate Editor: Dr. Stephen Davies, stephen.davies@utoronto.ca, 2006

## ACTIVITIES AS REVIEWER OF JOURNALS OF EDITORIAL SPRINGER VERLAG, GERMANY

Journal: Journal of Digital Imaging

Associate Editor: Janice Honeyman-Buck, honeyj@radiology.ufl.edu, 2004

Associate Editor: Daniel Rubin, dlrubin@stanford.edu, 2007

## ACTIVITIES AS REVIEWER OF THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING (SPIE) USA.

Journal: Optical Engineering

Associate Editor: Giordano Beretta, oe@spie.org, 2005 Associate Editor: Andy Tescher, oe@spie.org, 2005, 2007

## ACTIVITIES AS REVIEWER OF JOURNALS OF EDITORIAL TAYLOR & FRANCIS, UNITED KINGDOM

**Journal:** Internacional Journal of Remote Sensing

Associate Editor: Prof. Peng Gong, gong@nature.berkeley.edu, 2006

Associate Editor: Dr. Yong Xue, <u>v.xue@londonmet.ac.uk</u>, <u>yx9@hotmail.com</u>, 2006 (3 papers)

2007 (2 papers)

Associate Editor: Prof. José Sobrino, sobrino@uv.es, 2006

Associate Editor: Prof. Arthur Cracknell, apcracknell774787@yahoo.co.uk, 2006, 2007

Associate Editor: Prof. Ramesh Singh, ramesh@iitk.ac.in, 2007

## ACTIVITIES AS REVIEWER OF JOURNALS OF EDITORIAL ELSEVIER, NEDERLAND

**Journal: Information Fusion** 

Associate Editor: Prof. Paolo Gamba, paolo.gamba@unipv.it, 2006

## ACTIVITIES AS REVIEWER OF JOURNALS OF THE INSTITUTION OF ENGINEERING AND TECHNOLOGY (IET) UNITED KINGDOM

Journal: Electronics Letters

Associate Editor: Dr. Helen Dyball, eletters@theiet.org, 2007 (3 papers)

2009

## ACTIVITIES AS REVIEWER OF LATIN AMERICAN APPLIED RESEARCH JOURNAL, ARGENTINA

Journal: LAAR

Associate Editor: Dr. Jorge A. Solsona, jsolsona@uns.edu.ar, 2008

## ACTIVITIES AS REVIEWER OF JOURNALS OF EDITORIAL WILEY, USA

**Journal:** International Journal of Circuit Theory and Applications

Associate Editor: Dr. Pedro Julian, pjulian@ieee.org, 2010

## ACTIVITIES AS REVIEWER OF JOURNALS OF EDITORIAL SCIENCE, SOUTH-AFRIKA

Journal: Journal of Mathematics and Computer Science Research

Associate Editor: Dr. John Morrison, science.journals.reviewers.dept@gmail.com, 2011

# ACTIVITIES AS REVIEWER OF INTERNATIONAL CONGRESS

**Event: 13th Iberoamerican Congress of Pattern Recognition (CIARP 2008)** 

Place: Havana, Cuba

<u>Date</u>: September 9-12<sup>th</sup> 2008

Associate Editor: Dra. Marta Mejail, marta@dc.uba.ar, 2008 (2 papers)

# EVALUATOR FOR NATIONAL RESEARCH AND DEVELOPMENT PROJECT SYSTEM EVALUATION PRESENTED TO FONCYT PROGRAM IN INFORMATION TECNOLOGIES, COMMUNICATIONS AND ELECTRONIC, NATIONAL AGENCY OF SCIENTIFIC AND TECHNOLOGICAL PROMOTION, ARGENTINE.

#### Fondo para la Investigación Científica y Tecnológica

**Evaluation** 

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COUSSEAU, JUAN	MARCHETTI, JACINTO LUIS	TACCONI, EUGENIO
DÁTTELLIS, CARLOS	MARQUEZ, DARDO	TERESA, PEDRO
DE ALBORNOZ, ALVARO	MARSHALL, GUILLERMO RICARDO	UICICH, GUSTAVO CESAR
DE GIUSTI, ARMANDO ANGEL	MARTIN , MARCELO	VALENTINUZZI, MAXIMO EUGENIO
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DE WIT, CARLOS CANUDAS	MASCARENHAS, NELSON	VELASTIN, SERGIO
DENTE, ANTONIO	MASTRIANI, MARIO	VIDAL, RICARDO ALBERTO
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DISTEFANO, MARIO	MAZON GONZALEZ, ISMAEL	YEOMANS, HECTOR M
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DOORN, JORGE	MILOCCO, RUBEN HORACIO	ZANNATHA, JUAN IBARRA
FARRELL, PATRIK GUY	MIYAGI, PABLO E.	ZURIAGA, MARIANO JOSE
FELICE, CARMELO JOSE	MOIOLA, JORGE LUIS	

http://www.agencia.secyt.gov.ar/fct/evaluadores/evaluadores11.htm

# MANAGEMENT AS STEERING IN RESEARCH INSTITUTIONS

LABORATORY: of Research and Development in New Technologies (LIDeNTec)

POSITION: Director and Coordinator of Technological Innovation Area

AIMED PROJECTS:

- 1. Developed for ANSES:
  - 1.1. User Experience Project: Usability and Accessibility
  - 1.2. Agile Methodologies Project of Software Design
  - 1.3. Digitizing Documents
  - 1.4. High Performance Computing: Cluster and GRID
    - 1.4.1. Bioinformatics Algorithms for Buenos Aires Italian Hospital
    - 1.4.2. Brain Computer Interface for ANSES
    - 1.4.3. Climatological Models for National Meteorological Service
- 2. Buenos Aires State Government, Computer Science Agency:

Software Development: Electronic Legal Document

3. Secretary of Industry, Commerce and Small Business

Evaluation of 5 softwares for 5 departments

DATE: From December 1st 2006 up to day

URL: <a href="http://www.anses.gov.ar">http://www.anses.gov.ar</a>

FUNDS: LIDeNTec received 500,000 U.S. dollars

INSTITUTE: Argentine of Information Security (IASI)

POSITION: Founder and Ex Director

DATE: From March 22nd 2007 to September 22<sup>nd</sup> 2008

URL: http://www.fundacionpatagonia.org.ar/iasi.html

INSTITUTE: Sustainable Development and Environmental Law (INARDES)

**POSITION:** Secretary

DATE: From March 22nd 2007 to March 26th 2009

*URL*: http://www.fundacionpatagonia.org.ar/inardes.html

INSTITUTE: Software and Computing Services (ISSI)

POSITION: Founder and Director

DATE: From September 22nd 2008 to March 26th 2009

*URL*: http://www.fundacionpatagonia.org.ar/issi.html

INSTITUTE: Argentine of Bioengineering (IABI)

POSITION: Founder and Ex Director

DATE: From August 1st 2005 to November 30 2006

URL: http://www.fundesco.org.ar

Foundation: Patagonia

POSITION: Emeritus Counselor

DATE: From September 22nd 2008 to March 26th 2009

URL: http://www.fundacionpatagonia.org.ar

INSTITUTE: Argentine Chamber of Electronic Commerce (CACE)

POSITION: Vicepresident of eGovernment Commission

DATE: From July 14 2008 up to day

URL: http://www.cace.org.ar/

### PROJECTS IN RESEARCH AND DEVELOPMENT

*CLIENT:* Investigación Aplicada (INVAP S.E.) *SITE:* San Carlos de Bariloche, Argentina

POSITION: Project Manager

PROJECT: Digital Radio

*DATE:* From June to October 2008 *PERSONNEL IN CHARGE:* 3

DESCRIPTION OF POSITION AND RESPONSABILITIES:

Development of alternative to MELP Algorithm

PROJECT: Quick View of Airborne SAR, Band L, Mode Stripmap

Beginning: April 2010

PERSONNEL IN CHARGE: 5

DESCRIPTION OF POSITION AND RESPONSABILITIES:

Development of Fast Range Doppler Algorithm on GPGPU/NVIDIA/CUDA

PROJECT: Distributed DSP for primary radar

Beginning: April 2010

PERSONNEL IN CHARGE: 5

DESCRIPTION OF POSITION AND RESPONSABILITIES:

Development of Parallel Implementation of FFT on GPGPU/NVIDIA/CUDA

PROJECT: Front-end of primary radar

Beginning: April 2010

PERSONNEL IN CHARGE: 5

DESCRIPTION OF POSITION AND RESPONSABILITIES: Front-end of primary radar on GPGPU/NVIDIA/CUDA

CLIENT: National Technological University (UTN-FRBA)

SITE: Buenos Aires, Argentina POSITION: Project Manager

PROJECT: Micro-satellite for ham radios

Beginning: September 2010 PERSONNEL IN CHARGE: 5

DESCRIPTION OF POSITION AND RESPONSABILITIES: Designer of image compression algorithm employed on-board

CLIENT: Advisory Council on Digital TV and Argentine Industry

SITE: Buenos Aires, Argentina POSITION: Project Manager

PROJECT: Codec for video compression in High-Definition TV

Beginning: November 2010 PERSONNEL IN CHARGE: 3

DESCRIPTION OF POSITION AND RESPONSABILITIES:

Designer of video compression algorithm

PROJECT: Chip for supercompresión for High-Definition TV

Beginning: November 2010 PERSONNEL IN CHARGE: 10

DESCRIPTION OF POSITION AND RESPONSABILITIES:

Designer of supercompression algorithm

# INTERNATIONAL SCIENTIFIC PUBLICATIONS WITH SEVERAL REFEREED PROCESS IN JOURNALS

[1] M. Mastriani y A. Giraldez, "Enhanced Directional Smoothing Algorithm for Edge-Preserving Smoothing of Synthetic-Aperture Radar Images," Journal of Measurement Science Review, Volume 4, Section 3, pp.1-11, 2004.

[Online]. Available: http://www.measurement.sk/2004/S3/Mastriani.pdf

[2] M. Mastriani y A. Giraldez, "Smoothing of coefficients in wavelet domain for speckle reduction in Synthetic Aperture Radar images," ICGST International Journal on Graphics, Vision and Image Processing (GVIP), Volume 6, pp. 1-8, 2005.

[Online]. Available: http://www.icgst.com/gvip/v6/P1150517003.pdf

[3] M. Mastriani y A. Giraldez, "Despeckling of SAR images in wavelet domain," GIS Development Magazine, Sept. 2005, Vol. 9, Issue 9, pp.38-40.

[Online]. Available: <a href="http://www.gisdevelopment.net/magazine/years/2005/sep/wavelet\_1.htm">http://www.gisdevelopment.net/magazine/years/2005/sep/wavelet\_1.htm</a>

[4] M. Mastriani y A. Giraldez, "Microarrays denoising via smoothing of coefficients in wavelet domain," WSEAS Transactions on Biology and Biomedicine, 2005.

[Online]. Available: <a href="http://www.wseas.org/online">http://www.wseas.org/online</a>

[5] M. Mastriani y A. Giraldez, "Fuzzy thresholding in wavelet domain for speckle reduction in Synthetic Aperture Radar images," ICGST International on Journal of Artificial Intelligence and Machine Learning, Volume 5, 2005.

[Online]. Available: http://www.icgst.com/aiml/v3/index.html

[6] M. Mastriani, "Denoising based on wavelets and deblurring via self-organizing map for Synthetic Aperture Radar images," ICGST International on Journal of Artificial Intelligence and Machine Learning, Volume 5, 2005.

[Online]. Available: http://www.icgst.com/aiml/v3/index.html

[7] M. Mastriani, "Systholic Boolean Orthonormalizer Network in Wavelet Domain for Microarray Denoising," ICGST International Journal on Bioinformatics and Medical Engineering, Volume 5, 2005.

[Online]. Available: <a href="http://www.icgst.com/bime/v1/bimev1.html">http://www.icgst.com/bime/v1/bimev1.html</a>

[8] M. Mastriani, "Denoising based on wavelets and deblurring via self-organizing map for Synthetic Aperture Radar images," International Journal of Signal Processing, Volume 2, Number 4, pp.226-235, 2005.

[Online]. Available: http://www.enformatika.org/ijsp/v2/v2-4-33.pdf

[9] M. Mastriani, "Systholic Boolean Orthonormalizer Network in Wavelet Domain for Microarray Denoising," International Journal of Signal Processing, Volume 2, Number 4, pp.273-284, 2005.

[Online]. Available: http://www.enformatika.org/ijsp/v2/v2-4-40.pdf

[10] M. Mastriani y A. Giraldez, "Microarrays denoising via smoothing of coefficients in wavelet domain," International Journal of Biomedical Sciences, Volume 1, Number 1, pp.7-14, 2006.

[Online]. Available: <a href="http://www.enformatika.org/ijbs/v1/v1-1-2.pdf">http://www.enformatika.org/ijbs/v1/v1-1-2.pdf</a>

[11] M. Mastriani y A. Giraldez, "Kalman' Shrinkage for Wavelet-Based Despeckling of SAR Images," International Journal of Intelligent Technology, Volume 1, Number 3, pp.190-196, 2006.

[Online]. Available: <a href="http://www.enformatika.org/jit/v1/v1-3-21.pdf">http://www.enformatika.org/jit/v1/v1-3-21.pdf</a>

[12] M. Mastriani y A. Giraldez, "Neural Shrinkage for Wavelet-Based SAR Despeckling," International Journal of Intelligent Technology, Volume 1, Number 3, pp.211-222, 2006.

[Online]. Available: <a href="http://www.enformatika.org/jit/v1/v1-3-24.pdf">http://www.enformatika.org/jit/v1/v1-3-24.pdf</a>

[13] M. Mastriani, "Fuzzy Thresholding in Wavelet Domain for Speckle Reduction in Synthetic Aperture Radar Images," International Journal of Intelligent Technology, Volume 1, Number 3, pp.252-265, 2006.

[Online]. Available: http://www.enformatika.org/jit/v1/v1-3-30.pdf

[14] M. Mastriani, "New Wavelet-Based Superresolution Algorithm for Speckle Reduction in SAR Images", International Journal of Computer Science, Volume 1, Number 4, pp.291-298, 2006.

[Online]. Available: http://www.enformatika.org/ijcs/v1/v1-4-39.pdf

[15] M. Mastriani, "Denoising and Compression in Wavelet Domain via Projection onto Approximation Coefficients," International Journal of Signal Processing, Volume 5, Number 1, pp.20-30, 2008.

[Online]. Available: http://www.waset.org/ijsp/v5/v5-1-3.pdf

[16] M. Mastriani, "Union is Strength in Lossy Image Compression," International Journal of Signal Processing, Volume 5, Number 2, pp.112-119, 2009.

[Online]. Available: <a href="http://www.waset.org/ijsp/v5/v5-2-14.pdf">http://www.waset.org/ijsp/v5/v5-2-14.pdf</a>

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## **BOOK CHAPTERS**

[1] M. Mastriani, "Interfaz Cerebro-Computadora: La nueva frontera de la Pedagogía" DEL LIBRO: *La formación de los nuevos maestros*, Editor asociado: Lino Marcos Budiño, Tomo II de la Biblioteca de la Nueva Moneda, pp.75-85, Mar del Plata, Marzo de 2008.

# INTERNATIONAL SCIENTIFIC PUBLICATIONS WITH SEVERAL REFEREED PROCESS IN ANNALS OF CONGRESS

- [1] M. Mastriani, "Self-Restorable Stochastic Neuro-Estimation using Forward-Propagation Training Algorithm," Proceedings of International Neural Network Society, (WCNN '93 Portland) World Congress on Neural Network, Portland, Oregon, Vol. I, pp. 404-411, July 11-15, 1993.
- [2] M. Mastriani, "Self-Restorable Stochastic Neurocontrol using Back-Propagation and Forward-Propagation Training Algorithms," Proceedings of International Conference on Signal Processing Applications & Technology, (ICSPAT '93), Santa Clara, CA, Vol. II, pp.1058-1071, September 28 October 1, 1993.
- [3] M. Mastriani, "Self-Restorable Stochastic Neuro-Estimation Using Forward-Propagation Training Algorithm," VI International Symposium on Artificial Intelligence, ISAI'93 Cancúm, México, December 14-17, 1993.
- [4] M. Mastriani, "Kalmanian Delta Rule for Training a Single Adaline in Noisy Environments," (RPIC '93, S. M. Tucumán) Reunión de Profesionales en Ingeniería y Computación S. M. Tucumán, Tucumán ARGENTINA, pp.444-452, December 4-7, 1993.
- [5] M. Mastriani, "Pattern Recognition Using a Faster New Algorithm for Training Feed-Forward Neural Networks" Proceedings of International Neural Network Society, (WCNN '94 San Diego, CA) World Congress on Neural Network, San Diego, California, Vol. III, pp. 601-606, June 4-9, 1994.
- [6] M. Mastriani, "A Fast and Robust Pattern Recognition Using a New Algorithm for Training Feed-Forward Neural Networks," IEEE World Congress on Computational Intelligence, Orlando, Florida, vol.1, pp.582-587, June 26-July 2, 1994. http://intl.ieeexplore.ieee.org/iel2/3013/8556/00374230.pdf
- [7] M. Mastriani, "Predictor of Linear Output," ISIE '94, IEEE International Symposium on Industrial Electronics, Santiago, Chile, pp.269-274, May 25-27, 1994. http://intl.ieeexplore.ieee.org/iel2/1132/7852/00333106.pdf

[8] M. Mastriani, "Predictor of Linear Output for Fast Pattern Recognition," Fifth Society Industrial and Applied Mathematics (SIAM) Conference on Applied Linear Algebra, Snowbird, Utah, June 15-18, 1994.

- [9] M. Mastriani, "An Application for the Symmetric Functions," Fifth Society Industrial and Applied Mathematics (SIAM) Conference on Applied Linear Algebra, Snowbird, Utah, June 15-18, 1994.
- [10] M. Mastriani, "New Adaptive-Filter for System Estimation," 10° Congresso Brasileiro de Automática e 6° Congresso Latino Americano de Controle Automático Rio de Janeiro, Brasil, 19 a 23 de Setembro de 1994.
- [11] M. Mastriani, "Fast Pattern Recognition Using a New Neuron," 10° Congresso Brasileiro de Automática e 6° Congresso Latino Americano de Controle Automático Rio de Janeiro, Brasil, 19 a 23 de Setembro de 1994.
- [12] M. Mastriani, "Predictor-Corrector Neural Network for doing Technical Analysis in the Capital Market," VII International Symposium on Artificial Intelligence, ISAI'94 Monterrey, México, pp. 49-58, October 18-21, 1994.
- [13] M. Mastriani, "Domótica: Una propuesta para ámbitos inteligentes", First Internacional Congress on Computation, Ushuaia, Argentina, 2 al 7 de octubre de 2000.
- [14] M. Mastriani, "Nuevas Técnicas Computacionales para el Tratamiento de Imágenes Médicas", First Internacional Congress on Computation, Ushuaia, Argentina, 2 al 7 de octubre de 2000.
- [15] M. Mastriani, "Esteganografía Biomédica", 47° Congreso Internacional de Radiología, Buenos Aires, Argentina, 2 al 5 de Septiembre de 2001.
- [16] M. Mastriani, "Nuevas Técnicas de Compresión de Imágenes Médicas en Base al Nuevo Formato de Archivo Gráfico JPEG 2000", 47° Congreso Internacional de Radiología, Buenos Aires, Argentina, 2 al 5 de Septiembre de 2001.

[17] M. Mastriani, "Automatic Systemic Models of the Earth based on Intelligent Automatas," Ref.9.44, 29<sup>th</sup> International Symposium on Remote Sensing of Environment, April 8-12, 2002, Buenos Aires, Argentina.

- [18] M. Mastriani, "Hospital Virtual Transaccional: E-Medicine", 31 Jornadas Argentinas de Informática e Investigación Operativa, Santa Fe, Argentina, 9 al 13 de Septiembre de 2002, pp.77-80.
- [19] M. Mastriani, "Nuevas Técnicas Computacionales para el Mejoramiento de Imágenes Médicas", 31 Jornadas Argentinas de Informática e Investigación Operativa, Santa Fe, Argentina, 9 al 13 de Septiembre de 2002, pp.262-267.
- [20] M. Mastriani, "Imágenes Médicas sobre TCP/IP y UDP: Su problemática de implementación", INFORMEDICA'2002 e-Salud Global, 30 de Octubre al 30 de Noviembre de 2002.
- [21] M. Mastriani, "New Technique for Compression of Multispectral Images", 30<sup>th</sup> International Symposium on Remote Sensing of Environments (ISRSE'2003), Honolulu, Hawaii, November 10-14, 2003.
- [22] M. Mastriani, "Enhanced Boolean Correlation Matrix Memory", (RNL02), X RPIC Reunión de Trabajo en Procesamiento de la Información y Control, 8 al 10 de Octubre 2003, San Nicolás, Buenos Aires, Argentina, vol. 2, pp. 470-473.
- [23] M. Mastriani, *E-Health: Hospital Virtual Transaccional*, aceptado para el Simposio Argentino de Bioingeniería (SABI 2003), XIV Congreso Argentino de Bioingeniería y III Jornadas de Ingeniería Clínica, 8 al 10 de Octubre 2003, Córdoba, Argentina.
- [24] M. Mastriani *et al*, "Sistema Inteligente de Adquisición de Señales Biomédicas y su Vinculación con una Historia Clínica Electrónica", 33 Jornadas Argentinas de Informática e Investigación Operativa, Córdoba, Argentina, 22 al 24 de Septiembre de 2004, aceptado.
- [25] M. Mastriani et al, "Evaluation of Children's Anthropometric Features Using Wavelet Decomposition", Technol Health Care, 2004. 12(5): pp.375-382, 2004.

[26] M. Mastriani y A. E. Giraldez, "New type of thresholding neural networks for speckle reduction in SAR images", Jornadas de Imágenes II, SPIE-FIUBA, Buenos Aires, Noviembre 14-16, 2005.

- [27] M. Mastriani y A. E. Giraldez, "Fuzzy thresholding in wavelet domain for speckle reduction in Synthetic Aperture Radar images", Jornadas de Imágenes II, SPIE-FIUBA, Buenos Aires, Noviembre 14-16, 2005.
- [28] M. Mastriani, "Compresión rápida y eficiente de imágenes para Telemedicina", 38 JAIIO de SADIO, Simposio Argentino de Informática y Salud 2009 (SIS'2009), Mar del Plata, Agosto 26-28, 2009, pp.214-223.
- [29] M. Mastriani and J. Gambini, "Uso de la Transformada de Haar para el incremento de la eficiencia y rapidez de la Transformada Discreta de Karhunen-Loève en la compresión de imágenes con pérdidas", Proceedings of 39 JAIIO de SADIO, 11° Argentine Symposium of Technology (11° AST), Argentine University of Enterprise (UADE), August 30-September 3, pp.1563-1574, 2010.

## PARTICIPATION IN SCIENTIFIC EVENTS

[1] M. Mastriani, "Con qué señales estimular el nervio vago para neutralizar el foco epileptógeno durante un ataque de pánico?," 1ra. Jornada Argentina sobre Interfaces Cerebro-Computadora, Facultad de Ingeniería de la Universidad Nacional de Entre Rios, Oro Verde, Diciembre 13, 2006.

http://www.bioingenieria.edu.ar/extension/secretaria/jornadasfi/jorinterface.htm

- [2] M. Mastriani, "Empleo de tecnología satelital en el procesamiento de documentos digitalizados en ANSES," Workshop on Image Processing, Computer Vision and Graphic Computing, of School of Image Sciences 2009 (ECImag 2009), Instituto PLADEMA, Facultad de Ciencias Exactas, Universidad Nacional del Centro, Tandil, September 23 and 24, 2009. <a href="http://ecimag2009.pladema.net/workshop.html">http://ecimag2009.pladema.net/workshop.html</a>
- [3] M. Mastriani, "Generación de imágenes mediante Radares de Apertura Sintética (SAR) aerotransportados y/o satelitales via High Performance Computing (HPC)," Workshop on Image Processing, Computer Vision and Graphic Computing, of School of Image Sciences 2009 (ECImag 2009), Instituto PLADEMA, Facultad de Ciencias Exactas, Universidad Nacional del Centro, Tandil, September 23 and 24, 2009.

http://ecimag2009.pladema.net/workshop.html

[4] M. Mastriani, "Procesamiento distribuído de imágenes médicas con tecnología GPGPU/CUDA," XVII Argentine Congress of Bioengineering and VI Meeting Clinic Engineering 2009 (SABI 2009), Symposum of Bioinformatics and Biological Systems, Centro Cultural Bernardino Rivadavia, Rosario, Argentina, October 16, 2009.

http://rosario2009.sabi.org.ar

[5] M. Mastriani, "Procesamiento distribuído de imágenes médicas con tecnología GPGPU/CUDA," II Chilean Meeting of Biomedical Engineering 2009 (JCIB 2009), O'Higgins Hotel, Valparaiso-Viña del Mar, Chile, October 29 and 30, 2009.

http://www.jcib.cl

[6] M. Mastriani, "Nuevas tendencias en Biometría: Radiobiometría, Biometría por Interfaz Cerebro-Computadora y Relaciones putativas en Biometría," IV Congreso Internacional de

Biometría de la República Argentina 2009 (CIBRA'2009), Panamericano Hotel, Buenos Aires, Argentina, November 23 and 24, 2009.

http://www.biometria.gov.ar/congresos/cibra-2009/programa.aspx

[7] M. Mastriani, "Avances en la compresión de datos de audio y video: Aplicaciones de 3D para TD Digital," UBANEX Program, Faculty of Engineering, University of Buenos Aires, Buenos Aires, Argentina, December 9, 2009.

[8] M. Mastriani, "Compresión de Imágenes Médicas y Satelitales con tecnología GPGPU/NVIDIA/CUDA," Advanced tutorial, Argentinean Symposium on Embedded Systems 2010 (SASE'2010), Faculty of Engineering, University of Buenos Aires, Buenos Aires, Argentina, March 3-5, 2010.

# TEACHING OF DEGREE CHAIR IN STATE UNIVERSITIES

PLACE: Department of Systems, National Technological University (F.R.B.A.)

**COURSES:** Image Processing

**Signal Processing** 

**POSITION:** Professor

*DEDICATION:* Semi-exclusive *DATE:* From 2002 to 2004

WEB: <a href="http://www.sistemas.frba.utn.edu.ar/Procesamiento de Imagenes/">http://www.sistemas.frba.utn.edu.ar/Procesamiento de Imagenes/</a>

http://www.sistemas.frba.utn.edu.ar/Procesamiento de Señales/

**PLACE:** Computer Engineering Degree

National University of Tres de Febrero (UNTreF)

COURSES: Image Processing

**Signal Processing** 

POSITION: Professor (Category 1)

*DEDICATION:* Exclusive *DATE:* From 2007 up to day

WEB: <a href="http://www.untref.edu.ar/carreras\_de\_grado/ing\_computacion.htm">http://www.untref.edu.ar/carreras\_de\_grado/ing\_computacion.htm</a>

# TEACHING OF POSTGRADUATE CHAIR IN STATE UNIVERSITIES

PLACE: Engineering College, Buenos Aires University (UBA)

POSTGRADUATE: Master of Optoelectronics

DIRECTOR: Prof. E. Castro ecastro@citefa.gov.ar y ecastro@fi.uba.ar

COURSES: Diagnosis and Medical Treatment

**Medical Applications** 

POSITION: Profesor with partial dedication

DATE: From 2005 up to date

WEB: http://www.fi.uba.ar/autoridades/secretarias/posgrado/cursos carreras y maestrias 2005.pdf

# TEACHING OF DEGREE CHAIR IN PRIVATE UNIVERSITIES

COURSES: Fundamentals of Artificial Intelligence

Genetic Algorithms

Voice, Audio and Image Processing by Computer

Neural Networks I

Introduction of Neural Networks

**Data Encription** 

PLACE: Department of Systems, CAECE University

DATE: From August 1995 to December 1997

**POSITION:** Professor

Researcher

COURSES: Artificial Intelligence (Licenciature and Engineering)

Knowledge Engineering (Engineering)

PLACE: Computer Science Technology College, Belgrano University

DATE: From September 1995 to December 1996

POSITION: Professor

Director of Virtual University Project

COURSES: Neural Networks

PLACE: Artificial Intelligence Laboratory, Buenos Aires Institute of Technology (ITBA)

DATE: From February to April 1996

**POSITION:** Professor

Researcher

**COURSES:** Avanced Programming

PLACE: Engineering Collage, Salvador University

DATE: From August 1998

POSITION: Professor

COURSES: Language Philosophy

Computer Science Seminary (1st. part)

Structure of Programs

PLACE: Engineering College, Catholic University of Argentina

DATE: From July 1997 to July 1998

POSITION: Professor

Member of Engineering College Commission Member of Teaching in Engineering Commission

COURSES: Computer Science in Social Communication

Models and Simulation

Research in Systems

Systems of Data Processing

**Principles of Computing** 

Elements of Computer Science

**Data Processing** 

Logical Programming II

Practices I

Practices III

Languages of Programming II

Languages of Programming III

Languages of Programming IV

**Operation Research** 

Data Structure I

Data Structure II

Data Structure III

Artificial Intelligence

Research in Computer Science

Operating Systems I

**Communication Systems** 

Compilers and Interpreters

Theory of Programming Languages

**Technology of Communication** 

Introduction of Computer Science

**Information Theory** 

**Technological Tendencies** 

PLACE: System College, John F. Kennedy University

DATE: From August 1995 up to day

**POSITION:** Professor and Major of Computer Department

COURSES: Bank Teleprocessing

Field Job II

**Programming II** 

PLACE: Computer Science Tecnology Collage, Interamerican Open University

DATE: From February 2000 to December 2002

POSITION: Professor
Researcher

COURSES: Fundamentals of Computer Science

Programming I Mathematics I Mathematics II

Formal Languages and Theory of Computing

PLACE: Engineering Department, CEMA University

DATE: From March 2004 up to day

**POSITION:** Professor

# TEACHING OF POSTGRADUATE CHAIR IN PRIVATE UNIVERSITIES

PLACE: TECHNICAL MAJOR COLLEGE

POSTGRADUATE: Master of Technological Management

COURSE: Emergent Technologies

DATE: 2006

WEB: http://www.ingenieriaest.iese.edu.ar

# MEMBER OF POSTGRADUATE ACADEMIC COUNCIL IN PRIVATE UNIVERSITIES

PLACE: TECHNICAL MAJOR COLLEGE

POSTGRADUATE: Master of Technological Management

DATE: 2006

WEB: <a href="http://www.ingenieriaest.iese.edu.ar">http://www.ingenieriaest.iese.edu.ar</a>

PLACE: COLLEGE OF COMPUTER SCIENCE TECHNOLOGY BELGRANO UNIVERSITY

POSTGRADUATE: Course of Information Security, Management Oriented

DATE: 2007

WEB: <a href="http://www.ub.edu.ar">http://www.ub.edu.ar</a>

## TEACHING OF EXTRACURRICULAR COURSES IN STATE UNIVERSITIES

COURSE: Neural Networks

PLACE: Electronic Department, National Technological University, Córdoba City

DATE: October 1996
POSITION: Professor

COURSE: Neural Networks

PLACE: Electronic Department, National Technological University, Córdoba City

DATE: June 1997
POSITION: Professor

COURSE: Genetic Algorithms and Fuzzy Logic

PLACE: Electronic Department, National Technological University, Córdoba City

DATE: October 1997
POSITION: Professor

COURSE: Neural Networks

PLACE: Systems Department, Engineering College, Buenos Aires University

DATE: From April to May 1996

**POSITION:** Professor

COURSE: Data Warehousing and Data Mining for Networking

(1st part, Introduction to Genetic Algorithms)

PLACE: Engineering College, National University of Santiago del Estero.

DATE: December of 1997

POSITION: Professor

COURSE: Data Warehousing and Data Mining

PLACE: Engineering College, National University of Salta.

DATE: October 1998
POSITION: Professor

# TEACHING OF POSTGRADUATE COURSES IN STATE UNIVERSITIES

COURSES: Neural Networks in the Capital Markets

PLACE: Buenos Aires Stock Exchange • Economy College, Buenos Aires University

**DATE:** May 1996

POSITION: Professor of Master of Capital Markets (agreement between Economy

College of Buenos Aires University and Buenos Aires Stock Exchange)

# TEACHING OF EXTRECURRICULAR COURSES IN FOREIGN UNIVERSITIES

COURSE: E-Commerce

PLACE: Universitario Autónomo del Sur – República Oriental del Uruguay

DATE: May 2000 POSITION: Professor

COURSE: E-Commerce and Enterprise Strategy

PLACE: Universitario Autónomo del Sur – República Oriental del Uruguay

DATE: June 2000 POSITION: Professor

COURSE: E-Business

PLACE: Universitario Autónomo del Sur – República Oriental del Uruguay

DATE: July 2000 POSITION: Professor

# TEACHING OF EXTRECURRICULAR COURSES IN PRIVATE UNIVERSITIES

COURSE: Internet

PLACE: The Collage of Journalism, John F. Kennedy University

DATE: April 2000
POSITION: Professor

COURSE: E-Commerce

PLACE: Computer Department, John F. Kennedy University

DATE: August 2001
POSITION: Profesor

COURSE: Introduction to Object Oriented Programming

PLACE: Computer Department, John F. Kennedy University

*DATE:* September 2001 *POSITION:* Profesor

COURSE: Neurocomputing

PLACE: Computer Department, John F. Kennedy University

*DATE:* October 2001 *POSITION:* Professor

COURSE: Introduction to Java Programming

PLACE: Computer Department, John F. Kennedy University

*DATE:* October 2002 *POSITION:* Profesor

COURSE: Superalgorithms

PLACE: Computer Department, John F. Kennedy University

DATE: November 2002

POSITION: Profesor

TALLER: Object Oriented Programming in C/C++

PLACE: Computer Department, John F. Kennedy University

*DATE:* June 2003 *POSITION:* Profesor

TALLER: Algorithms and Data Structure in C/C++

PLACE: Computer Department, John F. Kennedy University

DATE: July 2003

POSITION: Profesor

*TALLER:* Java: The new Internet tool?

PLACE: Engineering College, CEMA University

DATE: June 2004

POSITION: Professor

## TEACHING OF EXTRECURRICULAR SEMINARS IN PRIVATE UNIVERSITIES

WORKSHOP: New Technologies and their use in identifying commercial niches for Small Business. Models, configurations and platforms of E-Commerce/ E-Business for Small Business. The E-Country.

PLACE: Engineering College, CEMA University

DATE: April 2004
POSITION: Speaker

SEMINAR: The Computer Science Tool inside High Schools.

PLACE: Engineering College, CEMA University

DATE: March 30 2006 POSITION: Moderator

# TEACHING IN COURSES OF INTERNATIONAL ELECTRICAL AND ELECTRONIC ENGINEERS (I.E.E.), NEW JERSEY, USA.

COURSE: Introduction to Multimedia

PLACE: IEEE headquarters (Argentine Chapter)

*DATE:* June 1997 *POSITION:* Professor

COURSE: Introduction to Neural Networks

PLACE: IEEE headquarters (Argentine Chapter)

*DATE:* August 1997 *POSITION:* Professor

# TEACHING IN COURSES OF ARGENTINE SOCIETY OF COMPUTER SCIENCE AND OPERATION RESEARCH (S.A.D.I.O.)

COURSE: Introduction to Neural Networks

DATE: September 1997 POSITION: Professor

COURSE: Introduction to Genetic Algorithms

DATE: September 1997 POSITION: Professor

COURSE: Data Warehousing and Data Mining Applied to Market Research and

Strategic and Operative Marketing

DATE: November 1999 POSITION: Profesor

COURSE: Data Warehousing and Data Mining Applied to Strategic and Operative

Marketing DATE: August 2000 POSITION: Professor

COURSE: Datawarehousing and Datamining for Comercialization, Marketing and

Management

DATE: June 2000 POSITION: Professor

COURSE: Internet for Marketing Global Commerce

DATE: July 2000 POSITION: Professor

COURSE: E-Commerce
DATE: May 2000
POSITION: Professor

#### DISERTATIONS IN PRIVATE UNIVERSITIES

SHORT COURSE: Computer Intelligence and Contraintelligence: Steganography

PLACE: CEMA University

DATE: 5 and 12 November 2003

POSITION: Speaker

# TEACHING IN COURSES OF APPLIED RESEARCH (INVAP S.E.)

COURSE: Multi-core/multi-GPU programming

DATE: September 6-10, 2010

POSITION: Speaker

## TEACHING OF DEGREE CHAIR IN TECHNICAL INSTITUTES

COURSE: Smart Building II

PLACE: Huergo Engineer Institute

DATE: From August to December 2002

POSITION: Professor

#### TEACHING IN COURSES IN TECHNICAL INSTITUTES

COURSE: Electronic Marketing

PLACE: FUVA, Salta headquarters

*DATE:* October 1999 *POSITION:* Professor

COURSE: Internet for Marketing and Global Commerce

PLACE: FUVA, Mendoza headquarters

*DATE:* November 1999 *POSITION:* Professor

COURSE: Electronic Marketing (2nd. part, Small Business Oriented)

PLACE: FUVA, Salta headquarters

DATE: March 2000 POSITION: Professor

**COURSE:** Programming of Internet Applications

PLACE: Center of Learning of High Technology

DATE: April 2000
POSITION: Professor

#### DIRECTOR OF HUMAN RESOURCES TRAINING PROGRAM IN SCIENTIFIC AND TECHNOLOGICAL RESEARCH IN PRIVATE UNIVERSITIES

PLACE: College of Computer Science Technology, Belgrano University

AREA: Artificial Intelligence and Neural Networks

PROJECT NAME: Algorithm for fast training of Back-propagation Neural Networks

NUMBER OF GROUPS: 1 (special group of research beginning)

DATE: 1995

PLACE: Systems Department, CAECE University

AREA: Artificial Intelligence and Neural Networks

PROJECT NAME: Back-propagation Neural Networks and its applications

NUMBER OF GROUPS: 6

DATE: 1996

PLACE: Systems Department, Buenos Aires Institute of Technology

AREA: Artificial Intelligence and Neural Networks

PROJECT NAME: Neuro-Fuzzy-Controllers

NUMBER OF GROUPS: 1

DATE: 1996

PLACE: Systems Design Department, John F. Kennedy University

AREA: Artificial Intelligence and Neural Networks

PROJECT NAME: Data-Mining with Multilayer Perceptrons

NUMBER OF GROUPS: 1

DATE: 1997

PLACE: Engineering College, Argentine Catholic University

AREA: Data Mining and neural Networks

PROJECT NAME: Data-Mining with genetic Algorithms

NUMBER OF GROUPS: 1

DATE: 1997

## MANAGEMENT AS STEERING IN STATE UNIVERSITIES

UNIVERSITY: National University of Tres de Febrero

POSITION: Director Computer Engineering Degree

Representative at the State Universities with Informatics Degree Network (RedUNCI), from April 1 2006

Representative at the Universities with Computer Engineering Degree Network (RUNIC), from November 16 2009

Representative of Modelling and Simulation Network Sponsored by Ministry of Science, Technology and Production Innovation, from November 26 2009

Representative of Regional Council of Biomedical Engineering for Latin America (CORAL), from November 30 2009

Member of Research Commission

Member of Education Commission

Director of Image and Signal Lab (LIS) of NeoTVLabs/CPA/UVt System

URL: http://www.untref.edu.ar/carreras\_de\_grado.htm#

## MANAGEMENT AS STEERING IN PRIVATE UNIVERSITIES

UNIVERSITY: Belgrano

POSITION: Director of Virtual University

DATE: From November 1996 to January 1997

UNIVERSITY: Interamerican Open

POSITION: Director of Center of High Studies in Computer Science Technologies

(CAETI)

DATE: From July 2000 to February 2001

UNIVERSITY: John F. Kennedy

POSITION: Delegate of Computer Department

DATE: From July 2002 up to day

UNIVERSITY: Technical Major College

POSITION: Member of Academic Council of Master of Technological Management

DATE: From September 2006 up to day

## MANAGEMENT AS STEERING AT FOREIGN PRIVATE UNIVERSITIES

UNIVERSITY: Universitario Autónomo del Sur – República Oriental del Uruguay

**POSITION:** Director of E-Commerce Laboratory

DATE: From March to August 2000

## MANAGEMENT AS STEERING OF NO GOVERNMENT ORGANIZATIONS (NGO)

NGO: Circle of Professionals in Global Commerce

**POSITION:** Secretary

DATE: From February 2004 up to day

NGO: Argentine Chambero f Global Commerce (C@CE)

POSITION: Secretary of e-Government Commission

DATE: From June 2007 up to day

NGO: Commission of Climate Change, Argentine Department of State

*POSITION:* Delegate of State University of Tres de Febrero (UNTreF)

DATE: From May 2007 up to day

#### MANAGEMENT AS CREATOR OF DEGREE PROGRAMS IN TECHNICAL INSTITUTES

#### MEMBER OF THE CURRICULAR COMMISSION:

Under the agreement signed between the University Foundation Social Argentina (FUSA), the IeSeVe A-1127 Technical Institute and the National Technological University (UTN-FRA) for the teaching development and the research in:

- Bachelor in Commercial Engineering for Senior Technicians in Commercial Engineering.
- Bachelor in Electronic Marketing for Senior Technicians in Commercialization.

#### DIRECTOR OF DEGREE THESIS

TESISTA: Bellver, Pablo; Derbapyan, Víctor; Loiacone, Mariano

THESIS OF: Bachelor in Computer Science

AREA: New training algorithm for multilayer feedforward neural nerworks with back-propagation of errors.

UNIVERSITY: Belgrano

DATE: From March to August 1996

POSITION: Director

TESISTA: Posadas Carolina

THESIS OF: Bachelor in Computer Science

AREA: Routing in Computer Nets with Genetic Algorithms.

UNIVERSITY: Morón

DATE: From March to August 1998

**POSITION:** Director

TESISTA: Gustavo Henrion

THESIS OF: Bachelor in Computer Science

AREA: Training of Back-propagation Neural Networks with Genetic Algorithms.

UNIVERSITY: of Buenos Aires.

*DATE:* From May 1998 *POSITION:* CoDirector

TESISTA: Mariel Molina

THESIS OF: Bachelor in Systems

AREA: Study on different applications of neural networks.

UNIVERSITY: Argentine of Enterprise.

DATE: From July to November 1998

**POSITION:** Director

TESISTA: Luis Clusa

THESIS OF: Bachelor in Systems

AREA: Algorithm of Image Compression Applied to Print Documents.

UNIVERSITY: CEMA.

DATE: From May 2010 to April 2011

POSITION: Director

#### DIRECTOR OF POSTGRADUATE THESIS

TESISTA: Donald Glass

THESIS OF: Master in Telecommunications

AREA: Communications with neural netwoks

UNIVERSITY: Buenos Aires Institute of Technology

DATE: 1996

POSITION: Director

TESISTA: Karim A. Nemer

THESIS OF: Philosophical Doctor

AREA: Neural networks in Orthodonce.

UNIVERSITY: National University of Córdoba

DATE: 1997

**POSITION:** CoDirector

TESISTA: Wilver Auccahuasi Aiquipa

THESIS OF: Philosophical Doctor

AREA: Medical Images.

UNIVERSITY: National University of South

DATE: 2010

POSITION: CoDirector

TESISTA: Fernando Lage

THESIS OF: Philosophical Doctor

AREA: Digital Signal and Image Processing.

**UNIVERSITY:** National Technological University

**National University of La Plata** 

DATE: 2010

POSITION: Director

#### JURY OF DEGREE THESIS

TESISTA: Pablo Andrés García

THESIS OF: Magister in Engineering

TITLE: Remote Sensing Nets

UNIVERSITY: State of La Plata

DATE: May 29 2008

DIRECTOR: Prof. Enrique Spinelli, Ph.D.

#### JURY OF MASTER THESIS

TESISTA: Diego Sica

THESIS OF: Magister in Optoelectronics

TITLE: Estudio de Factores de Riesgo Geométricos Ligados a Patologías Vasculares

Coronarias

UNIVERSITY: Engineering College of Buenos Aires University

DATE: June 2010

DIRECTOR: Prof. Damián Craiem Spinelli, Ph.D.

## EX MEMBER OF INTERNATIONAL SCIENTIFIC SOCIETIES

- \* *IEEE* (*International Electrical and Electronic Engineering*) from 1990 as Member degree of following societies:
- 1.- Signal Processing Society
- 2.- Automatic Control Society
- 3.- Neural Networks Society
- 4.- Aerospace & Electronic Systems Society (desde 01/94 hasta 12/96)
- 5.- Information Theory Society
- 6.- Computers Society
- 7.- Communications Society
- \* *INNS* (*International Neural Network Society*) from 07/93 to 12/96 as Member degree of the following Special Interest Groups:
  - 1.- Economic and Financial Applications
  - 2.- Geophysics
  - 3.- Signal Processing
  - 4.- Mathematics
  - 5.- Learning Theory
  - 6.- Optimization
  - 7.- Automatic Control
  - 8.- System Identification
  - 9.- Chaos and Complexity
  - 10.- Genetics Algorithms
  - 11.- Fuzzy Systems

# CURRENT MEMBER OF INTERNATIONAL SCIENTIFIC SOCIETIES

* WASET (World Academy of Science, Engineering and Technology) from 2004 http://www.waset.org/institutional.html Latin America Representative http://www.waset.org/NaturalandAppliedSciences.php?page=15 Member of the WASET Scientific and Technical Committee on Natural and Appl Sciences	lied
* CodeProject (International Society of Codification and Algorithms) from 2003 <a href="http://www.codeproject.com">http://www.codeproject.com</a>	
* Mathtools (Technical Computing Community of The MathWorks, Inc.) from 2002 <a href="http://www.mathtools.net">http://www.mathtools.net</a>	
* TechOnLine (Technology on Line, Inc.) from 2002 http://www.TechOnLine.com	
* EEGLAB (Swartz Center for Computational Neuroscience) from 2002 http://www.sccn.ucsd.edu/eeglab/	
* MEDSCAPE (Medical Scape) from 2006 http://www.medscape.com	
* MAPLE (Reporter) from 2006 <a href="http://www.maplesoft.com">http://www.maplesoft.com</a>	
* Curvelet (Caltech) from 2007 <a href="http://www.curvelet.org">http://www.curvelet.org</a>	
* Criptored from 2007 <a href="http://www.criptored.upm.es">http://www.criptored.upm.es</a> Local Coordinator by LIDeNTec and UNTreF	

#### **SCHOLARSHIPS**

IX Postgraduate Course Nuclear Engineering, National Commission of Atomic Energy (CNEA), corresponding to developed at Constituyentes Atomic Center, Buenos Aires, Argentina.

**DATE**: March to December 1990.

IV Peruilh Scholarship, of Peruilh Foundation, Buenos Aires, Argentina, corresponding to Doctorate in Engineering of Buenos Aires University.

DATE: From Marh 1991 to July 1994

#### DISSERTATIONS IN SPANISH EVENTS

1st. Congress "Mar del Plata – Virtual City", Costa Galanas Convention Center, Mar del Plata, 5 to 8 December 1999, on INTERNET SEGURITY.

2nd. Congress "Mar del Plata – Virtual City", Costa Galanas Convention Center, Mar del Plata, 5 to 8 October 2000, on INTERNET SEGURITY.

"New E-Commerce Model for Small Business, E-SB", Auditorium of Palermo University, June 13 2002.

Domotic: A proposal for smart environments

Approved for the Internacional Congress of Ushuaia, Nacional University of Patagonia, September 2000

Algorithms for Medical Images Enhancement

Approved for the Internacional Congress of Ushuaia, Nacional University of Patagonia, September 2000

Teaching of Mathematics Across Seudocodes

Presented in the International Congress of Mathematics for Engineering, National Technological University, Concepción del Uruguay, October 2000

## MANAGEMENT OF PROJECTS IN PRIVATE UNIVERSITIES

Study of feasibility on a new format of graphic file for Internet Pre-accepted project for FONCyT/SECyT Funded project by VANEDUC

Study on Data Warehousing Funded project by VANEDUC

Study on Electronic Commerce Funded project by VANEDUC

Seudocodes as training platform in programaming for corporation professionals Funded project by VANEDUC

Study on Data Mining Funded project by VANEDUC

Study on Algebra Funded project by VANEDUC

Voting for Internet Funded project by VANEDUC

Study on Geographic Information Systems Funded project by VANEDUC

Study on Marketing on Internet Funded project by VANEDUC

Study on Security in Electronic Commerce Funded project by VANEDUC

#### PUBLICATION OF PAPERS IN SPANISH JOURNALS

- Virtual Hospital: Medicine in Internet Journal Contact, Vaneduc, June 2001.
- Electronic Commerce Journal Contact, Vaneduc, August 2001.
- Electronic Commerce Journal Engineering, Center of Argentine Engineers, September 2001.
- Domotic Journal Contact, Vaneduc, September 2001.
- Electronic Marketing Journal Engineering, Center of Argentine Engineers, November 2001.
- Datamining Journal Contact, Vaneduc, October 2001.
- Datawarehousing Journal Engineering, Center of Argentine Engineers, December 2001.

#### **MISCELLANEOUS**

#### REFEREED:

Reviewer of papers for CONDEX/INFOCOM/WINDOWS'98 on Neural Networks.

#### **ACTIVITIES IN LOCAL IEEE:**

**President** of Computer Argentine Chapter during 1997.

VicePresident of Computer Argentine Chapter during 1998.

**VicePresident** of Computer Argentine Chapter during 1999.

#### **ACTIVITIES IN INTERNATIONAL IEEE:**

Member of Technical Committee on Multimedia Computing.

<u>POSTULATE FOR PRESIDENT OF ARGENTINE SOCIETY OF MULTIMEDIA AND INTERACTIVE MULTIMEDIA DEVICES (SAMMIT)</u>: During 1997

#### CONDEX/INFOCOM/WINDOWS'98:

#### MEMBER OF PROGRAM COMMITTEE AND THE TRACKS CONGRESS:

- HEALTH AND INFORMATION TECHNOLOGY
- SIMULATION, OPERATION RESEARCH AND MODELISTIC

#### SPEAKER IN TRACK:

BUSINESS

#### CENTER OF ARGENTINE ENGINEERS:

- Member of Study Commission for Training in Engineering (CEEI) inside IV Congress of Politics of Engineering.
- Participant of 1st. Virtual Congress, Iberoamerican and Europe (in collaboration with National Technological University).
- Roundtable on E-Commerce.
- Team Leader of training in E-Commerce FUNDES and Santa Mercedes Foundations, training to Small Business Enterprises of Argentine Industrial Union and to Techint suppliers, at Siderca Campana.

#### Symposium: Computer Science in Health\_(SIS'2004), Córdoba September 22-29:

- Member of Management Group in Health (Jorge A. Guerra).
- Member of Computer Science and Health Forum (Prof. Dr. Humberto F Mandriola Brieux)

#### *Workshop of vocational guidance:*

Department of Professional Development, CEMA University, 08/31/2004

#### Member of Program Committee of Workshop on Images SPIE-FIUBA 2005:

Engineering Collage, Buenos Aires University (FIUBA), November 14-16 2005

<u>Member of Program Committee of "50 YEARS OF ARTIFICIAL INTELLIGENCE: Campus Multidisciplining in Perception and Intelligence (CMPI-2006)":</u>

July 10-14 2006

Tel: +34 967599200 Ext. 2406 / Fax: +34 967599224

**Informatics Department** 

University of Castilla-La Mancha Escuela Politécnica Superior 02071 Albacete, España http://www.uclm.es

<u>Member of Program Committee of "International Conference on Fuzzy Systems - ICFS 2005"</u>, International Enformatika Conference, <a href="http://www.ijci.org/icfs2005/committees.htm">http://www.ijci.org/icfs2005/committees.htm</a></u>

<u>Member of Program Committee of "</u>International Conference on Enformatika Systems Sciences and Engineering - ESSE 2006", International Enformatika Conference, Prague, Czech Republic, 01-03 February 2006

http://www.enformatika.org/conferences/ 2006/prague/committees.htm

<u>Member of Program Committee of "</u>International **Enformatika** Conference - IEC 2006", Internacional Enformatika Conference, Prague, Czech Republic, 01-03 February 2006 <a href="http://www.enformatika.org/conferences/2006/cairo/committees.htm">http://www.enformatika.org/conferences/2006/cairo/committees.htm</a>

<u>Speaker of Meeting on Satellite Technology</u> Engineeering College, Buenos Aires University, track of Satellite Images Processing, 2-3 September 2006 <a href="http://www.fi.uba.ar">http://www.fi.uba.ar</a>

<u>Speaker of Meeting on Signals and Images in Remote Sensing</u> Engineeering College, Buenos Aires University, track of Satellite Images Processing, 2-3 November 2006 <a href="http://www.fi.uba.ar">http://www.fi.uba.ar</a></u>

<u>Speaker of Meeting on Brain Computer Interface</u> Medical Informatics Laboratory of Hospital Buenos Aires Italian Hospital, in following tracks:

- Systems of objects recognition. Adquisition and processing of language and other symbolics signals. November 6, 2006
- Information Theory, History and Introduction. Codification and binary systems. Entropy and Information. The Cybernetics and the Modern Control Systems.

http://www.hospitalitaliano.org.ar

<u>Attender to Workshop on Informatics Technician</u> Ministry of Education, Science and Technology, November 1, 2006 <a href="http://www.me.gov.ar">http://www.me.gov.ar</a>

Member and Founder of Argentine Net of Brain Computer Interface (RAICC)
From December 13 2006
http://www.bioingeniería.edu.ar/jaicc

Member of Scientific Committee of Argentine Meeting of Brain Computer Interface 2009: Paraná, Entre Ríos, Argentina, April 16 and 17 2009
http://www.bioingenieria.edu.ar/grupos/lirins/jaicc2009.html

<u>Member of Academic Committee of XV Argentine Congress of Computer Sciences 2009</u>: San Salvador de Jujuy, Jujuy, Argentina, October 5 to 9 2009 http://www.cacic2009.fi.unju.edu.ar

<u>Round table on situation of Image Processing in Argentina:</u> School of Image Sciences 2009 (ECImag 2009), Instituto PLADEMA, Facultad de Ciencias Exactas, Universidad Nacional del Centro, Tandil, September 23, 2009.

http://ecimag2009.pladema.net/programa.html

<u>Argentine GRID Initiative:</u> October 21 and 22 2009, Reconquista Garden Hotel, 675 Reconquista St., Bs. As., Argentina.

<u>Member of Imaging Sciences Lab</u>: Universidad Nacional del Sur, Argentina. http://www.lci.uns.edu.ar/members.html

Member of Advisory Board for Argentine System of Digital Terrestrial TV, 2009.

Member Academic Committee of Argentine Symposium on Computing Technology (AST 2010) for 39° Argentine Meeting of Informatics and Operative Research (39 JAIIO). http://www.39jaiio.org.ar/ast

Assistant to International Meeting of Advisory Board for Argentine System of Digital Terrestrial TV (SATVD-T), November 11 and 12, 2009, Palace-Mail, Bs. As. Argentina.

Assistant to Digital TV Course, November 6, 9-12, 2009, Palace-Mail, Bs. As. Argentina.

Assistant to Meeting for Responsibles of R&D Teams for Digital TV, November 12, 2009, LIFIA, La Plata. Argentina.

Assistant to Workshop for R&D Teams of Digital TV, November 13, 2009, Palace-Mail, Bs. As. Argentina.

3° School and Workshop on Image Sciences (ECImag 2010)

- Member Academic Committee,
- Member of Round Table on Innovation and Research in Image Sciences
- Professor of Course: Distributed Processing of Medical Images with GPGPU/NetStream Technologies (I3)

Imaging Sciences Lab, National University of South, Bahía Blanca, Argentina. July 19-23 2010.

http://www.ecimag.org/

<u>Member of Scientific Committee of International Conference on Computer Science 2006:</u> CU Tech, Chaoyang, China, February 2, 2006

http://www.meeting.edu.cn/oemui/newsinfo/newsshow.asp?news\_id=222&news\_type\_id=3

#### <u>Member of Technical Program Committee of Sixth International Conference on</u> Information Assurance and Security, IAS 2010:

Atlanta, Georgia, USA, August 23 to 25 2010

http://www.mirlabs.org/ias10/org.html

### <u>Member of Programme Committee of 3rd International Conference on Computational Intelligence in Security for Information Systems, CISIS 2010:</u>

Leon, Spain, November 11-12<sup>th</sup>, 2010

http://gicap.ubu.es/cisis2010/committees/committees.shtml

#### Assistant to Second Meeting of ISDB-T Norm International Forum

Member and Founder of Research and Development on Interactive TV Network (RDITVN)

Assistant to Workshop and Roundtable on RDITVN

Buenos Aires Sheraton Hotel, May 3 to 5, 2010

 $\underline{http://www.foro\text{-}isdbt\text{-}arg2010.gob.ar/home.php}$ 

#### Member of Academic Committee of XII Workshop Computer Sciences Researchers 2010:

El Calafate, Santa Cruz, Argentina, May 5 to 7, 2010.

http://wicc2010.info.unlp.edu.ar/

#### Speaker of IPTV-Forum Buenos Aires 2010

SuperCompression: Algorithm of distributed compression with Multi-core/Multi-GPU/NetStream Technology

CEMA University, Buenos Aires, Argentina, 10-11 June 2010

http://www.iptv-forum.com.ar/programa.htm

#### Speaker of Seminar

Advances in compression of audio and video, with applications in 3D for Digital TV National Technological University, Buenos Aires, Argentina, June 22nd, 2010

http://www.electron.frba.utn.edu.ar/preacreditacion/actividades/index 2.php?publicacion id=42

#### Speaker of Applied Microelectronics µEA2010

Embebed Software for 3DTV with Multi-core/Multi-GPU/NetStream Technology

National University of La Matanza, Buenos Aires, Argentina, July 5-7, 2010

http://utic.inti.gob.ar/uea/

 $\underline{http://www.ieee.org/web/publications/pubservices/confpub/AuthorTools/conferenceTemplates.html}$ 

https://www.easychair.org/login.cgi?conf=uea2010

#### Speaker of Argentine Congress on Informatics and Health (CAIS2010)

Compression and Super-resolution of Serial Computed Tomography

Argentine University of Enterprises (UADE), Buenos Aires, Argentine, September 1, 2010 <a href="http://www.39jaiio.org.ar/cais">http://www.39jaiio.org.ar/cais</a>

#### Speaker of 11° Argentine Symposium on Technology (AST'2010)

Image Parallel Processing with CUDA

Member of Program Committee

#### Moderator

Argentine University of Enterprises (UADE), Buenos Aires, Argentine, September 3, 2010 <a href="http://www.39jaiio.org.ar/ast">http://www.39jaiio.org.ar/ast</a>

#### Speaker of 3rd High-Performance Computing Symposium

Treatment of problems with high computational cost via multi-core/multi-GPU technology.

Examples: RSA and several primality test

Argentine University of Enterprises (UADE), Buenos Aires, Argentine, September 2, 2010 <a href="http://www.39jaiio.org.ar/hpc">http://www.39jaiio.org.ar/hpc</a>

#### Speaker of Second International Congress on Acoustics

Spectral analysis with wavelets. Part I & II

National University of Tres de Febrero, Buenos Aires, Argentina, September 10, 2010 <a href="http://www.untref.edu.ar/congreso\_acustica.htm">http://www.untref.edu.ar/congreso\_acustica.htm</a>

#### 1st Workshop of Interactive Digital TV (WTVDI):

Member of Program Committee of

Reviewer of 6 papers

WebMedia 2010 - XVI Simposio Brasilero de Sistemas Multimedia y Web

Belo Horizonte/MG, 5-8 October, 2010.

http://www.ufmg.br/swib/?p=129

#### Research Project, during 2004

Researcher

Intelligent System of Biomedical Signal Adquisition

M. Mastriani and G. Pérez Lance

CEMA University, Buenos Aires, Argentina, 2004.

http://www.ucema.edu.ar/institucional/download/investigaciones2004.pdf

## Round Table in Day of Cooperation between Europe and Argentina in Future Internet and Components TICs Field

Speaker

April 20 2010, CESSI Auditorium, 541 Paraguay st., 6º Floor, Buenos Aires, Argentina.

## Seminar on Functional Analysis Applied to Image Processing with Computational Efficiency and Rapidity.

Host: Professor Carlos Cabrelli, cabrelli@dm.uba.ar

June 4 2010, Mathematics Department, Faculty of Natural Sciences, Buenos Aires University Pavilion I, University City, Buenos Aires, Argentina.

#### Advisory Council of ISDB-T Norm

Member

Federal Planning Ministry and Public Services

2010, Buenos Aires, Argentina

#### Technical Commission for Connect Equality Program

Member

Federal Planning Ministry and Public Services

Ministry of Education

National Administration of Social Security (ANSES)

Argentine Government, 2010

#### National Administration of Social Security (ANSES)

Member of Committee for Strategic Program of Information Technologies (PETI'2010) Representative by GIIT-ANSES in ONTI for Digital Signature in Argentina

#### **Evaluator of:**

- Scientific Research Committee of the Province of Buenos Aires (CIC), Argentina For Electronics, Computer and Bioengineering
- National Commission for Evaluation and Accreditation (CONEAU), Argentina For Electronics, Computer and Bioengineering degrees http://www.coneau.gov.ar/#state=regexpertos

#### IPTV-Forum

**Technical Advisor** 

http://www.iptv-forum.com.ar/staff.htm

#### Argentinean Symposium on Embedded Systems 2011 (SASE'2011)

National Technological University, Buenos Aires, Argentina, March 2-4, 2011.

Member of Organizing Committee

Member of Technical Committee Program

Papers reviewer

### <u>Supercompression: Compression via Super-resolution and its possible implementation inside CMOS chips</u>

Electronic and ElectroMechatronic Systems Research Group (EESRG), Electrical Engineering Research Institute (EERI), Electrical Engineering and Computers Department (EECD), National University of South, Bahía Blanca City, Buenos Aires, Argentina, October 17-19, 2010.

Speaker

#### XVI Argentine Congress of Computer Sciences 2010 (CACIC'2010)

University of Moron, Moron City, Buenos Aires, Argentina, October 18 to 22, 2010

Member of Academic Committee

Speaker: Supercompression via super-resolution for audio, still images, video, HDTV, 3DTV and Digital Cinema

#### 10° Regional Conferences of Free Software 2010

National University of San Luis, San Luis City, San Luis Province, Argentina, October 28 to 30, 2010

Speaker: Supercompression via super-resolution for audio, still images, video, HDTV, 3DTV and Digital Cinema

#### III Meeting NeoTVLab 2010

National University of Tres de Febrero, Buenos Aires, Argentina, November 25, 2010 Speaker: Supercompression via super-resolution for audio, still images, video, HDTV, 3DTV and Digital Cinema

#### Research and Development Network of Digital Terrestrial Television

Member

#### 2010 Balseiro Institute, Business Plan with Technological Base Contest (IB50K)

Evaluator of Information Technology and Communications Area

#### National Digital Agenda, Governance Secretariat, 2010

Representative of National Administration of Social Security (ANSES) Member of Infraestructure Commission

#### Forum, Tele-Communications, Argentina Conectada, 2011

25-27 April, 2011

Buenos Aires Hilton Hotel

Representative of National Administration of Social Security (ANSES)

#### National Digital Agenda, Governance Secretariat, 2011

Representative of National Administration of Social Security (ANSES) Member of Infraestructure Commission

#### 7<sup>th</sup> International Conference on Information Assurance and Security 2011

Malacca, Malaysia, December 5-8, 2011. Member of International Programm Committee Papers reviewer

#### Ph.D. in Engineering of Buenos Aires University, March 2011

**Evaluation Jury** 

#### Argentine Symposium of Embedded Systems 2012 (CASE'2012)

Member Researcher of Grant Scientific Meetings (RC2011), National Scientific and

Technological promotion Agency Sub-Responsible: Hilda Larrondo

FONCyT System: http://foncyt.mincyt.gov.ar/FONCyT2/convocatoria/

#### Microsoft Academic Member

[1] http://academic.research.microsoft.com/Publication/13730733/denoising-and-compression-in-wavelet-domain-via-projection-onto-approximation-coefficients

[2] <a href="http://academic.research.microsoft.com/Publication/4667846/enhanced-directional-smoothing-algorithm-for-edge-preserving-smoothing-of-synthetic-aperture-radar">http://academic.research.microsoft.com/Publication/4667846/enhanced-directional-smoothing-algorithm-for-edge-preserving-smoothing-of-synthetic-aperture-radar</a>

[3] http://academic.research.microsoft.com/Publication/4082489/waveshrink-with-firm-shrinkage

- [4] <a href="http://academic.research.microsoft.com/Publication/1559226/optimal-polarimetric-processing-for-enhanced-target-detection">http://academic.research.microsoft.com/Publication/1559226/optimal-polarimetric-processing-for-enhanced-target-detection</a>
- [5] http://academic.research.microsoft.com/Publication/13590519/kalman-s-shrinkage-for-wavelet-based-despeckling-of-sar-images

#### Third National University Meeting of Computer Engineering (III EUNIC)

Chairman

April 29 2011, National University of Tres de Febrero, Buenos Aires, Argentina

#### 12th AST Argentine Symposium on Technology, 40th JAIIO.

Member of Program Committee

August 29 and 30, 2011, UTN, Córdoba.

#### Course of Terrestrial Digital TV: Developments in Argentina and Latinamerica

Speaker

AFCEA Argentina, EST Argentine Army, Buenos Aires, Argentina, May 31 2011

#### News stories for RedUsers:

- [1] La tecnología argentina que televisará el Mundial de Brasil en 4k 3D <a href="http://www.redusers.com/noticias/conozcan-la-tecnologia-argentina-que-transmitira-el-mundial-de-brasil-en-4k-3d/?replytocom=57761">http://www.redusers.com/noticias/conozcan-la-tecnologia-argentina-que-transmitira-el-mundial-de-brasil-en-4k-3d/?replytocom=57761</a>
- [2] Desarrollo 100% argentino: un dispositivo que convierte tu LCD en 3D <a href="http://www.redusers.com/noticias/desarrollo-100-argentino-un-dispositivo-que-convierte-tu-lcd-en-3d/">http://www.redusers.com/noticias/desarrollo-100-argentino-un-dispositivo-que-convierte-tu-lcd-en-3d/</a>

#### Third Congress of Applied, Computational, and Industrial Mathematics (III MACI)

Assistant

Math Department, National University of South, Bahía Blanca, Argentina, May 9-11 2011.

#### Fourth National University Meeting of Computer Engineering (IV EUNIC)

Member

Faculty of Exact, Physics and Natural Sciences, National University of Córdoba, Córdoba, Argentina, May 27 2011.

#### Board Meeting PLATA Internet of the Future: Implementing International Cooperation European Union - Argentina, R+D in Internet of the Future, Systems and TIC Components

Assistant

Science, Technology and Productive Innovation Ministry, Bs As, Argentina, May 20 2011

### <u>Supercompression: Compression via Super-resolution and its possible implementation</u> inside CMOS chips

Electronic and ElectroMechatronic Systems Research Group (EESRG), Electrical Engineering Research Institute (EERI), Electrical Engineering and Computers Department (EECD), National University of South, Bahía Blanca City, Buenos Aires, Argentina, March 17 and May 9, 2011.

Speaker

#### Work Meeting with INVAP and Satellogic Spin-Off

Projects:

- GPGPU FPGA replacement for Argentine Primary Radar
- Quick-View of Synthetic Aperture Radar, L-Band and Strip-Map Mode for UAV
- Compression of 1080p video and 640x480 infrared video for security choper
- GMTI for plane

INVAP House, Bariloche, Rio Negro, Argentina, May 16-18, 2011.

#### "First Meeting ELAC'2015 Project"

Commission of Federal Agency of Information Society (AFESIF) Action Plan on Information Society and Knowledge of America and the Caribbean (eLAC2015)

Member

Chairman: Eng. Gabriel Gric

Buenos Aires, Argentina, May 16, 2011

#### News stories for RedUsers:

[1] Innovar Program (by Ministry of Science, Technology and Production Innovation <a href="http://www.innovar.gob.ar/blog/in-blog/innovar/un-invento-argentino-logra-transformar-toda-la-television-en-3d">http://www.innovar.gob.ar/blog/in-blog/innovar/un-invento-argentino-logra-transformar-toda-la-television-en-3d</a>

http://www.innovar.gob.ar/blog

#### [2] Canal-AR

http://www.canal-ar.com.ar/noticias/noticiamuestra.asp?Id=10757

#### [3] Argentine Government

 $\underline{http://www.prensa.argentina.ar/2011/05/15/19562-experimento-universitario-paratransformar-la-teve-comun-en-3d.php}$ 

[4] Ministry of Federal Planning, Public Investment and Services <a href="http://pmcg.minplan.gov.ar/html/eventos/presentacion\_universidades/untref.php">http://pmcg.minplan.gov.ar/html/eventos/presentacion\_universidades/untref.php</a>

#### [5] Daily "The Argentine"

 $\frac{http://www.elargentino.com/nota-139109-Un-invento-argentino-transforma-la-television-3D.html$ 

#### PROFESSIONAL ACTIVITIES

#### **CURRENT JOB:**

Institution: Laboratory of Research and Development in New Technologies (LIDeNTec)

Address: 353 Piedras St., 2<sup>nd</sup>. Floor, Room 228, C1070AAG, Buenos Aires, Argentina

Phone: 4015-2166

Area of business: Research and Development

Position: Director

Dependent: ANSES Chairman Director: Pablo Fontdevila

Date of accession: December 2006

Institution: National Administration of Social Security (ANSES)

Address: 353 Piedras St., 2<sup>nd</sup>. Floor, Room 228, C1070AAG, Buenos Aires, Argentina

Phone: 4015-2295

Area of business: Research and Development Position: Coordinator of innovation Area

Dependent: ANSES CIO Director: Sandra Lia Rouget Date of accession: June 2008

#### **PREVIOUS JOBS:**

Institution: Argentine Institute of Bioengineering (IABI)

Address: 1427 H. Irigoyen St. Floor 6, Room B, C1089AAA, Buenos Aires, Argentina

Phone: 4115-1296

*Area of business:* Research and Development in Bioengineering

Position: Director

Date of accession: August 2005 Date of discharge: November 2006

Institution: National Commission of Space Activities (CONAE)

Address: 751 P. Colon Av., C1063ACH, Buenos Aires, Argentina

Area of business: Research and Development in Aeroespatial Technology

Position: Specialist in airborne and satellite SAR processing

Activities: Airborne Synthetic Apertura Radar: Formation of images, super-resolution to increase the spatial resolution, suppression of speckle, compression, interpherometry for digital elevation models, scene simulator for calibration processors, training, generation of 50 for terrain humidity and rugosity medition.

Name and position of immediate supervisor: Dr. Alberto E. Giraldez, Scientific Director

Date of accession: December 2005

Date of discharge: September 2006

Institution: Buenos Aires Italian Hospital

Address: 650 Gascón St., C1181ACL, Buenos Aires, Argentina

Area of business: Health

Position: Project Leader, Project Smart Wire

Name and position of immediate supervisor: Dr. F. G. B de Quirós, Strategic Vice-Director

Date of accession: August 2003 Date of discharge: October 2004

Company: BioTech

Address: 104 24 de Noviembre St., Floor 1, Room C, C1170AAD, Buenos Aires, Argentina

Area of business: Development of Telebiometrics Equipment

Position: Development Chair Date of accession: December 2001 Date of discharge: December 2002

Institution: Health Sciences College, Argentine Catholic University

Address: 1400 Alicia Moreau de Justo St., Floor 4, C1107AFB, Buenos Aires, Argentina

Area of business: Education and Research
Position: Director of Bioinformatics Institute
Professor of Computer Science I and II

Tiolessor of Computer Science I and In

Director of Computer Hospital

Name and position of immediate supervisor: Dr. Carlos B. Alvarez

Date of accession: December 2000 Date of discharge: December 2001

Institution: Argentine Social Universitaria Foundation

Address: 146 Combate de los Pozos St., C1079AAD, Buenos Aires, Argentina

Area of business: Education, Research and Consulting

Position: Professor, Researcher of I.D.I.D., Director of Senior Technicians in E-Commerce, Analyst Universitario in E-Commerce, Licenciate in E-Commerce and Master in

E-Commerce.

Name and position of immediate supervisor: Dr. Lino Marcos Budiño

Date of accession: September 1999

Institution: Interamerican Open University

Address: 90 Chacabuco St., C1069AAB, Buenos Aires, Argentina

Area of business: Education, Training and Consulting

Position: Director of Center in Haigh Studies in Computer Technology

Profesor of course: Field Job II (E-Commerce)

Researcher

Description of position and responsabilities: Management of research projects of College in Computer Technology

Name and position of immediate supervisor: Dr. Marcelo De Vincenzi, Major College in Computer Technology and Management Vicemajor.

Date of accession: July 2000 Date of discharge: February 2001

## Institution: International Electrical and Electronic Engineering (IEEE) New Jersey, USA.

Address: 744 Córdoba Av., Floor 2 (CICOMRA), C1054AAT, Buenos Aires, Argentina

Position: VicePresident of Argentine Chapter of IEEE Computer Society

Date of accession: January 1998

**Institution:** Computer School

Address: 878 Florida St., C1005AAR, Buenos Aires, Argentina

Area of business: Information Technology

Position: Professor, Consultant and Director of E-Commerce Laboratory, Uruguay

Personnel in charge: 2

Research, development and training in: E-Commerce / E-Business, Data Ware-housing / Data

Mining, E-Learning, etc.

Date of accession: January 2000 Date of discharge: July 2000

Reason for the discharge: Completion of specific contract

Company: PMM Consulting

Address: 1848 A. M. de Justo St., Floor 1, Room 1, C1107AFB, Buenos Aires, Argentina

Area of business: Market Research

Position: Managing Partner

Description of position and responsabilities: Managing Partner.

*Reason for the discharge:* Dissolution of company.

**Company: Extel Enginering** 

Address: 275 Paraná St., C1017AAE, Buenos Aires, Argentina

Area of business: Transmission of Information Systems

Position: Senior R&D Engineer

Description of position and responsabilities: Responsible of Research and Development of

Systems for Transmission for E-commerce and E-Business.

Name and position of immediate supervisor: J. A. Elman, President

Reason for the discharge: Completion of specific contract

Institution: Belgrano University

Address: 1947 Federico Lacroze St., C1426CPE, Buenos Aires, Argentina

Area of business: Education and Training Position: Director of Virtual University

Description of position and responsabilities: Coordination, general direction and supervision,

as head of the project in the areas of administrative and technical Videoconferencing.

Name and position of immediate supervisor: Dr. Avelino Porto, Major

Date of accession: November 1996 Date of discharge: December 1996

### Institution: International Electrical and Electronic Engineering (IEEE) New Jersey, USA.

Address: 376 Moreno St., Floor 3, C1091AAH, Buenos Aires, Argentina

Position: President Argentine Chapter of IEEE Computer Society

Date of accession: January 1997
Date of discharge: December 1997

#### Company: MAIN BYTE S.R.L.

Address: 966 Córdoba Av., Floor 7, Room B, C1054AAV, Buenos Aires, Argentina

Area of business: Information Technology *Position:* Project Leader in Marketing

Personnel in charge: 3

Description of position and responsabilities: Chairman of Base Software Development, with participation in several public terders, making budgets and tender specifications. Among the most notable achievements stand firm for the purchase of more than 200 customers and obtained the certificate of dealer firms such as Hewlett-Packard, Epson, Compaq, etc.

Name and position of immediate supervisor: Sr. Nestor Belosevich, President

Date of accession: March 1993 Date of discharge: October 1995

Reason for the discharge: By changing line of company

Company: GOWEL

Address: 3451 San Juan Av., C1233ABE, Buenos Aires, Argentina

Area of business: Advertising and enterprise image

Position: Consultant in Marketing

Personnel in charge: 4

Description of position and responsabilities: Designing the communication and image of various private items of construction, food and metalmechanics. Market research and management of different sectors of the company. Strategic Marketing.

Name and position of immediate supervisor: Ana M. Gómez, Director Sales and Marketing

Date of accession: May 1988 Date of discharge: February 1993

*Reason for the discharge:* Completion of specific contract

#### PROJECTS IN E-COMMERCE/E-BUSINESS

a) Development of Software for Business Intelligence with Computer (S.I.C.I.), for a Union Transient Business between Softlab S.R.L., Levy Marketing, Alemann & Asoc., among others; for a tender of Argentine State Department, in the agreement of United Nations for Development Program (PNUD) and Funding for World Bank, as CONTRAT S.I.C.I. – PROJECT PNUD ARG/97/001.

Such system consists in to put 800.000 Argentine Small Business Enterprises on Internet for generating an E-Commerce/E-Business process with bidirectional transactional traffic highlighting aspects of Security and Privacy through the generation of proprietary algorithms. Such system has a vertical search engine for a smart identification of partners designed to meet the scale in demand, as well as identifying particular niches and international stages for each type of product.

- b) Development of E-Commerce/E-Business project for Argentine State Department, project known as S.I.E.T.E.S. which is primarily based on the concept of *business to business*. Such project is inside agreement of United Nations for Development Program (PNUD) and Funding for World Bank, as, CONTRAT S.I.E.T.E.S. PROJECT PNUD ARG/00/013.
- c) Development of E-Commerce project for Errepar/Holistor, which consists in a subscription to its publications, consulting and auditory legal-accounting (Errepar), as well as the purchase of books (Holistor). The project consists of a portal with procedures and links. It supports wizzards and templates cargo operations for the advertising banners for direct marketing unit of those goods and services

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## CURRICULAR ACTIVITIES DURING THE PAST FOUR YEARS

- 1. Course of E-Commerce/E-Business, Interamerican Open University, From 1 to 12 April 2000.
- 2. Roundtable on E-Commerce, Center of Argentine Engineers, From 22 yo 23 May 2000. In the same meeting shall dispose of a protocol suggestions to SECOM.
- 3. Course on E-Commerce in Argentine Society on Computer Science and Operation Research (SADIO):

Part one, from 27 to 28 April and May 4

Part two, June 15, 16 and 22.

Course on Data Warehousing and Data Mining

From November 27 to December 1

4. Activities for IDID-FUSA

Course of E-Commerce:

June 2, 9 and 16. Buenos Aires

October 20, Buenos Aires

September 15, 22 and 29, Buenos Aires

November 17 and 24 and December 1, Buenos Aires (Electronic Marketing)

November 4, San Luis (Marketing on Internet)

Creator of Technical Studies in E-Commerce

Creator of Specialization in E-Commerce

Creator of Bachelor in E-Commerce

Creator of Master in E-Commerce

Course on E-Commerce in Commerce Chamber of Rosario and sponsored by Santa Fe State Government, Rosario, May 12 and 13 2000.

5. Mar del Plata:

October 12 to 15

Security to user level

Security to Corporate level

Virtual Hospital: Medicine on Internet

E-Commerce

6. Córdoba:

September 2 to 6

FUNCER Foundation and Argentine Social Universitario Institute

Program of Management Development in Information Technology

- 7. Member of Research and Training Commission of John F. Kennedy University
- 8 Leonardo Da Vinci Institute:

Academic Representative

# PARTICIPATION IN PROGRAMS OF STRATEGIC AREAS (PAE) OF NATIONAL AGENCY OF SCIENTIFIC AND TECHNOLOGICAL PROMOTION, ARGENTINA

- 1. Image's Sciences (2006)
  - 1.1. Presenter
  - 1.2. Participates in 7 sub-projects
- 2. Education System by Tele-Immersion (2006)

http://www.agencia.gov.ar

# PARTICIPATION IN PROJECTS OF SCIENTIFIC AND TECHNOLOGICAL RESEARCH (PICT) OF NATIONAL AGENCY OF SCIENTIFIC AND TECHNOLOGICAL PROMOTION, ARGENTINA

1. PICT-2006-02217 "Image Analyis and Segmentation. Application to Synthetic Aperture Radar and Solar Coronagraphy Images"

Director: Marta Meiail, 2008-2010

Deadline 03/26/2010 http://www.agencia.gov.ar

2. Mobile TV (2007)

Principal Researcher PICT 2006 - Category IV (Start-up)

Actionable projects

AREA: 11

Code: PICT-2006-02332

http://www.agencia.secyt.gov.ar/IMG/pdf/PICT\_2006\_Proyectos\_Procesables\_Cat.\_IV\_\_Start-up\_.pdf

3. PICT-2008-1926 "Image and Video Analysis and Segmentation. Application to Synthetic Aperture Radar images, Tracking in Video Surveilliance, Shape Matching in Image Database and Robotic Vision"

Director: Marta Mejail, 2010-2012

http://www.agencia.gov.ar

#### **UBACYT PROJECT**

Science Program 2008-2010 "Image Analyis and Segmentation. Application to Synthetic

Aperture Radar images, Solar Coronagraphy and Computer Vision" (X142)

Director: Marta Mejail, 2008-2010

Research Project in Science and Technology

## INDEXING (IN THE INTERNATIONAL SCIENTIFIC SYSTEM) OF THE RESEARCH CITED IN PAGES 20-25

[1] Russia:

http://library.graphicon.ru:8080/pubbin/view\_author.pl?author\_id=1980

[2] USA:

http://iris.usc.edu/Vision-Notes/bibliography/compute108.html

# CITATION IN THE INTERNATIONAL SCIENTIFIC SYSTEM OF THE RESEARCH CITED IN PAGES 20-25

[1] Greece:

 $\frac{http://medlab.cs.uoi.gr/itab2006/proceedings/Computational\%20Biology\%20and\%20Bioinfor\ matics/98.pdf}{}$ 

[2] Germany:

http://www.zfl.uni-bonn.de/earsel/papers/41-47\_riedel.pdf

http://www.springerlink.com/content/7151526848066475/

http://www.springerlink.com/content/522jh38450161735/

[3] Turkey:

http://www.waset.org/pwaset/v25/v25-7.pdf

[4] USA:

http://ieeexplore.ieee.org/xpl/freeabs\_all.jsp?arnumber=4313304

http://ieeexplore.ieee.org/xpl/freeabs\_all.jsp?arnumber=4413081

#### NASA'S PROJECTS MENTIONING RESEARCH CITED IN PAGE 18

#### [1] A Final Report of Bethune-Cookman College NASA JOVE Projects

Submitted To: Dr. Shirley B. Lee, Executive Assistant to the President/Coordinator For Federal and State Grants and Contracts

JOVE Faculty Research Associates:

Dr. Lawrence C. Agba, Assistant Professor of Engineering

Dr. Sunil David, Assistant Professor of Physics

Dr. Narsing G. Rao, Professor of Physics

Dr. Munir A. Rahmani, Professor of Biology

October 13, 1997

http://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/19990116362\_1997058809.pdf

#### [2] An Enhanced Back-Propagation Training Algorithm

Lawrence C. Agba, Division of Science and Mathematics, Bethune-Cookman College

email: agba@cookman.edu

Jerry H. Tucker, Langley Research Center, NASA

email: Tucker@larc.nasa.gov

http://ieeexplore.ieee.org/iel2/3505/10435/00488179.pdf

#### INTELLECTUAL PROPERTY AND PATENTS

[1] <u>Título</u>: Algoritmo de Supercompresión mediante Downsampling/Upsampling y restauración de bordes via Máscara Convolutiva

<u>Género</u>: Programa Computación <u>Autor/Titular</u>: Mario Mastriani.

Obra publicada: 4877964, 23 Nov 2010

Número de formulario de la Dirección Nacional del Derecho del Autor: 11536

<u>Año</u>: 2010

Protección hasta: 2080

www.boletinoficial.gov.ar/DisplayPdf.aspx?s=01&f=20101123

http://www.boletinoficial.gov.ar/Productos/SuscripcionContactos.Castle

Mario Mastriani, Ph.D.

Bs. As., 06/05/2011