Ronald Steriti, NMD, PhD

1284 Granada Blvd, Naples, FL 34103
(239) 659-2684, ron@naturdoctor.com

Summary

- US Citizen
- Doctoral thesis on mathematics of neural networks for image processing
- Current work involves design, building and repair of audio amplifiers

Education

Doctorate in Electrical Engineering 1994
University of Massachusetts at Lowell

Bachelors of Science in Electrical Engineering 1986
University of Massachusetts at Lowell

Associates in Engineering Science 1983
Northern Essex Community College, Haverhill, MA

Awards

Graduate with Honors, University of Massachusetts at Lowell
Outstanding Graduate Student of the Year, University of Massachusetts at Lowell
Graduate cum Laude, Award for Excellence in Mathematics, Northern Essex

Leadership Training

Management and Business Administration - part of the UMass Lowell PhD program
President of the Graduate Student Association, 1991-1993
Co-Founder of the Student Copy Center at UMass Lowell
Coach for Landmark Education's Self Expression and Leadership Program, 2002

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Electrical Engineering Employment

Self-Employed — Present
Electrical Engineer
- Design and build custom tube guitar amps
- Schematic capture and PC board layout (DesignWorks and Osmond PCB)
- Repair vintage amps and effects, tube and solid, guitar and bass
- Test equipment: Soldering station, DMM, oscilloscope, frequency generator

Recognition Technologies, Holliston MA — 1995-1996
Research Scientist
- Image processing for microscopic images of GaAs wafers.

UMass Lowell Center for Productivity Enhancement — 1995-1996
Assistant Computer System Manager.
- Unix System administration: account management, email, security, etc.

Department of Electrical Engineering, UMass Lowell — 1989-1995
Research and Teaching Assistant
- Computer programming in C, FORTRAN, Basic, Pascal, Java, etc.

Aviv Corp., Woburn, Mass — 1988-1989
Mechanical Designer and Draftsman.
- Drafted computer hard drive enclosures.

Raytheon Co., Andover, Mass — 1986 – 1987
Test Equipment Design Engineer.
- Design test stations for Patriot and Hawk missile systems.
- Analog and digital circuit design.

UMass Lowell Center for Atmospheric Research — 1985 – 1986
Student Technician.
- Assemble and test atmospheric ultrasound equipment.

Etter Engineering, Chelmsford, Mass — 1984-1985
Technician and Assembler.
- Assembled and tested industrial gas heating units.
- Building prototypes, assembly and testing

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Doctoral Thesis

"Regularized Image Reconstruction using Neural Networks"

My thesis focused on using the Hopfield neural network in image reconstruction problems. A matrix inversion algorithm was developed and used to reconstruct images from limited Fourier data and to deconvolve blurred images.

Electrical Engineering Publications

"Blind Deconvolution of Images Using Neural Networks", R. Steriti and M.A. Fiddy Optics Letters, Vol. 19, No 8, April 1994.

"Image Reconstruction and Neural Networks", M.A. Fiddy, J. Abbiss, and R. Steriti Recent Advances in Electronics and Electron Physics, Academic Press, 1994.

"Regularized Image Reconstruction using SVD and a Neural Network", R.J. Steriti, M.A. Fiddy, and J. Coleman, IEEE Trans. Signal Processing, 41:10, Oct 1993

"Image Reconstruction by Matrix Inversion on Fully Connected Architecture", R. Steriti, J. Coleman, and M.A. Fiddy, Inverse Problems 6, June 1990

"Image Reconstruction based on Matrix Inversion on a Fully Connected Architecture", R. Steriti, J. Coleman, and M.A. Fiddy, Inverse Problems 6, June 1990

"Regularized Image Reconstruction and Recognition", R. Steriti , J. Coleman, and M.A. Fiddy, Optical Society of America Annual Meeting, Boston, MA, Nov. 1990

"Modeling Neural Network Dynamics using Iterative Image Reconstruction Algorithms", R. Steriti, M.A Fiddy., Proc. Int'l Conf. on Neural Networks, Baltimore, MD, June 1992

"Regularized Matrix Inversion on a Neural Network Architecture", R. Steriti, J. Coleman, and M.A . Fiddy., Proc. Neural Networks, Seattle, WA, June 1991

"A Neural Network Matrix Inversion used for Regularized Image Reconstruction", R. Steriti, J. Coleman, and M.A. Fiddy, Proc. Neural Networks for Vision and Image Processing,Wang Institute of Boston University, p60, May 1991

"Image Reconstruction and Regularization: SVD and Neural Network Matrix Inversion", R. Steriti, J. Coleman, M.A. Fiddy, IEEE Signal Processing Conf., 1991

"A Neural Network based Matrix Inversion Algorithm", R. Steriti, J. Coleman, and M.A. Fiddy, Int'l Joint Conference on Neural Networks, San Diego, CA, June 1990

"Recognition of Blurred, Noisy Images using a Matrix Inverse Determined by a Neural Network", Neural Networks for Automatic Target Recognition, Wang Institute, Tyngsboro, MA, May 1995.