CURRICULUM VITAE

Corneliu Rusu

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Affiliation

Technical University of Cluj-Napoca Faculty of Electronics, Telecommunications and Information Technology Baritiu 26-28, 400027, Cluj-Napoca, ROMANIA Tel. +40-264-202382, Fax: +40-264-592055, Email: corneliu.rusu@ieee.org http://www.sp.utcluj.ro/Corneliu_Rusu/index.html

Date and Place of Birth

December 9, Surduc, Salaj county, Romania

Education

1997–2000: **Dr. Tech. (with honors) in Signal and Image Processing** Tampere University of Technology, Finland; Signal Processing Laboratory

1990-1996: Ph. D. in Electronics Engineering

Technical University of Cluj-Napoca, Romania; Faculty of Electronics and Telecommunications

1986-1990: M.Sc. in Mathematics

"Babes-Bolyai" University, Cluj-Napoca, Romania; Faculty of Mathematics and Computer Science

1980-1985: M.Sc. in Electronics and Telecommunications

Technical University of Cluj-Napoca, Romania; Faculty of Electronics and Telecomumications

1975-1979: Lyceum Jibou (1975-1976), Lyceum "N. Balcescu" Cluj-Napoca (1976-1979), Lyceum Platforma Magurele (1978, 3rd sem.), Lyceum "Mihai Viteazul" Bucuresti (1979, 3rd sem.)

Professional Experience

1.10.2000-present: **Professor**

Technical University of Cluj-Napoca, Faculty of Electronics and Telecommunications

1.09.1997-14.02.2000: **Ph.D Researcher**

Tampere University of Technology, Tampere, Finland; Signal Processing Laboratory

15.02.1991-31.08.1997, 15.02.2000-30.09.2000: Assist. Prof., Senior Lecturer, Assoc. Prof.

Technical University of Cluj-Napoca, Faculty of Electronics and Telecommunications

1.09.1985–14.02.1991: Computer Service and Debugging Engineer

IIRUC, Bucharest, Romania; XX Computer Systems Division, Cluj-Napoca Branch

Professional Society Memberships

- Senior Member, Institute of Electrical and Electronics Engineers (IEEE) (March 2011– present);
- Member, IEEE (January 1995–March 2011);
- EURASIP Local Liaison Officer for Romania (March 2014– present);
- Member, European Association for Signal Processing (EURASIP) (September 1996–present);

Editorships

- Editor of the Novice Insights in Electronics, Communications and Information Technology: 2006–present
- Associate Editor of the ACTA TECHNICA NAPOCENSIS Electronica-Telecomunicatii (Electronics and Telecommunications): 1997, 2005–2007

Organizing Committees

- Co-Chair The 8th International Conference on Speech Technology and Human-Computer Dialogue SpeD 2015 (IEEE and EURASIP conference)
- Co-Chairman, International Workshop on Recent Trends in Signal Processing RTSP 2015 (EURASIP co-sponsor workshop)
- Co-Chair The 7th International Conference on Speech Technology and Human-Computer Dialogue SpeD 2013 (IEEE and EURASIP conference)
- Exhibits Chair, EURASIP European Signal Processing Conference EUSIPCO-2012
- Area Chair, EURASIP European Signal Processing Conference EUSIPCO-2012
- Chairman, Workshop on Signal Processing and Applied Mathematics for Electronics and Communication SPAMEC 2011 (EURASIP co-sponsor workshop)
- Workshop Chair, Workshop on Embedded System Design and Applications ESDA 2009
- General Chair, Workshop on Signal Processing Systems for Wireless Communications SPSWC 2008
- Technical Co-Chair, International Workshop on Recent Trends in Signal Processing RTSP 2007

Conference/Workshop Technical Programme Committee

- Member of Technical Programme Committee, European Signal Processing Conference EUSIPCO 2009, 2010, 2015
- Member of Technical Programme Committee, ISCAS 2013, 2014, 2015, 2016
- Member of Scientific Committee, Workshop on Embedded System Design and Applications ESDA 2007, 2008, 2010
- Member of International Program Committee, International Workshop on Nonlinear Signal and Image Processing NSIP 2007

Grants - Director

- Workshop SPAMEC 2011 ANCS 144M/8.08.2011
- Adaptive Signal Reconstruction for Compressive Sampling of Acoustic Arrays, PN_ID_162_2008, 2008— 2011
- Signal Processing Systems for Wireless Communications, CNCSIS WE_107_2008, 2008
- Adaptive Filters with Variable Structure, CNCSIS A-722, 2001–2004

Publications

- 13 articles in signal processing journals with Thomson Reuters (ISI) Impact Factor
- 34 papers in major signal processing and circuits conferences (ICASSP, ISCAS, ICIP, EUSIPCO, ECCTD)
- 16 books, monographs, textbooks, collections of exercises or book chapters
- 21 articles published in referred journals
- 90 papers published in referred conference and workshops proceedings

Research Results as First Author

- Exponentiated convex variable step-size algorithm, (Signal Processing, Volume 90, Issue 9, Sept. 2010, pp. 2784–2791, TR-ISI Impact Factor: 2.209)
- The causal part of autocorrelation is minimum-phase (*Signal Processing*, Volume 89, Issue 6, June 2009, pp. 1032–1037, TR-ISI Impact Factor: 2.209)
- Zeros localisation using FFT (*IEEE Signal Processing Letters*, Volume 11, Issue 10, Oct. 2004, pp. 817–820, TR-ISI Impact Factor: 1.751)
- Phase approximation by logarithmic sampling of gain (*IEEE Transactions on Circuits and Systems II: Analog and Digital Signal Processing*, Volume: 50, Issue: 2, Feb. 2003, pp. 93–101, TR-ISI Impact Factor: 1.234)
- Circle fitting by weighted inversion (*J. Electron. Imaging*, Vol. 12, Jan. 2003, pp. 179–193, TR-ISI Impact Factor: 0.672)
- The phase is the series of the odd derivatives of the neperian gain (*Circuits, Systems, and Signal Processing*, Volume 21, Number 3, May 2002, pp.243–261, TR-ISI Impact Factor: 1.118)
- Variable error-exponent (*IEE Proceedings Vision, Image and Signal Processing*, Volume: 147, Issue: 6, Dec. 2000, pp. 516–526, TR-ISI Impact Factor: 0.46)
- Cost function adaptation (Signal Processing, Volume 80 , Issue 11, Nov. 2000, pp. 2457–2473, TR-ISI Impact Factor: 2.209)
- Convex variable step-size (*IEEE Signal Processing Letters*, Volume 7, Issue 9, Sep. 2000, pp. 256–258, TR-ISI Impact Factor: 1.751)

Talks

- On some properties of minimum-phase and zero-phase sequences, University Politehnica of Bucharest, February 16, 2012
- On some properties of minimum-phase sequences, Nokia Innovation Center, Tampere, September 17, 2009
- Topics in Signal Reconstruction, University of Nis, Faculty of Electronics, October 6, 2005
- About Argument Principle in Signal Processing, Tampere International Center for Signal Processing, February 18, 2003
- Cost Function Adaptation for Data Echo Cancellation, Helsinki University of Technology, Signal Processing Laboratory, August 30, 2001
- Signal Analysis and Synthesis, Technical University of Cluj-Napoca, Department of Mathematics, March, 2001
- Further Developments of a Geometrical Approach to Circle Fitting, Tampere International Center for Signal Processing, November 7, 2000
- Continuing Engineering Education in Finland, Technical University of Cluj-Napoca, Tempus Meeting, October 16, 1997
- Towards Cost Function Adaptation for Data Echo Cancellation, Tampere University of Technology, Signal Processing Laboratory, January, 1997

PhD Supervisor of Defended Dissertations - Technical University of Cluj-Napoca

- Flaviu-Ilie Bob, Sound Recording and Processing for Determining Source and Signal Parameters, April 12, 2014
- 2. Paul-Emanuel Baru, Research in Risk Analysis for Medical Electronics, April 12, 2014
- 3. Nicolae-Cristian Pampu, Neuronal Signal Analysis Involved in Sensorial Processing, November 24, 2013
- 4. Liviu-Teodor Chira, Sparse Blind Deconvolution in Ultrasound Imeging using an Adaptive Clean Algorithm, October 17, 2013
- 5. Adrian-Gabriel Lodin, Contributions to Iris Image Analysis for Medical Applications, September 28, 2012
- Lucian-Ioan Iozan, Researches Regarding Persons and Objects Localization using Sensors, October 10, 2011
- 7. Marius-Vasile Ghiurcau, Sound Classification in Forensic Scenarios, September 16, 2011
- 8. Simina Moldovan Emerich, Application of B-Spline Wavelet Analysis in Biometrics, February 4, 2011
- 9. Anca Ioana Discant, Contributions to the Information Fusion. Application to Obstacle Recognition in Visible and Infrared Images, October 15, 2010
- 10. Vasile Vlad Moca, Methods for Analysis and Classification of Biological Signals, June 18, 2010
- 11. Lacrimioara-Romana Buzan, Researches Regarding Phase Approximation from Frequency Response Gain Samples, May 14, 2009
- 12. Florin Toadere, Contributions to the Processing of the Signals Received from the Optical Sensors, February 2, 2009
- 13. Carol Rus, Researches Regarding Digital Image Processing for Structural Extraction and 3D Models Generation, January 17, 2009
- 14. Annamaria Mesaros, Research Regarding the Modeling of Musical Signals Timbre, November 29, 2007

Teaching - Technical University of Cluj-Napoca

- Mathematical Methods and Algorithms for Signal Processing, 2010–present
- Adaptive Filters and Statistical Signal Modelling, 2010–present
- Optical Signal Processing and Storage, 1999–2009
- Advanced Digital Signal Processing, 1995–2009
- Digital Signal Processing, 1994–present
- Peripheral Equipments, 1992–1996
- Signals, Circuits and Systems, 1991–1996

Leadership

- Head of Doctoral School in Electronics and telecommunications, Technical University of Cluj-Napoca (November 2014–present)
- Member of CNATDCU Committee for Electronics, telecommunications and nanotechnology (September 2012–present)
- Vicepresident of CNATDCU Committee for Electronics and telecommunications (February 2011–September 2012)
- Head of Signal Processing Group, Technical University of Cluj-Napoca, 1999–present