

Lăcrimioara-Romana Grama

Education

- 2003–2004 **Master of Science degree**, *Technical University of Cluj-Napoca*, Faculty of Electronics and Telecommunications.
Design Techniques for Complex Electronic Circuits
- 1998–2003 **Graduated Electronics Engineering**, *Technical University of Cluj-Napoca*, Faculty of Electronics and Telecommunications.
Communications

Professional Activity

- 1 Oct 2007–present **Teaching Assistant**, *Technical University of Cluj-Napoca*, Faculty of Electronics, Telecommunications and Information Technology, Basis of Electronics Department.
- Feb 2004–1 Oct 2007 **Assistant Professor**, *Technical University of Cluj-Napoca*, Faculty of Electronics and Telecommunications, Basis of Electronics Department.
Continuing my PhD without frequency
- Nov 2003–Feb 2004 **PhD Student**, *Technical University of Cluj-Napoca*, Faculty of Electronics and Telecommunications.

Scientific Activity

Editorial Staff Member

- 2007–present **Novice Insights in Electronics, Communications and Information Technology**, *CNC-SIS - D category*, <http://www.bel.utcluj.ro/novice/>.

Research Grants

- Sep 2007–Mar 2009 **Director**, *CNCSIS grant, PNII-RU-TD-281*, Researches regarding Phase Approximation from Frequency Response Gain Samples.
- 2007–2009 **Member**, *international research grant with third persons Conti TEMIC Microelectronic GmbH*, director Ş.I.dr.ing. Gabriel Chindriş.
- 2005–2006 **Member**, *CNCSIS grant, A-1027/2005*, Biometrical Systems for Access Control using Vocal Print, director Prof.dr.ing. Eugen Lupu.
- 2005–2006 **Member**, *CNCSIS grant, AC-10/2005*, Molecular Mechanisms for Cellular Adhesion and Recognition Mediated by Glican-Glican Interactions, director Prof.dr.ing Eugen Lupu.
- 2005–2006 **Member**, *CNCSIS grant, PNCDI, CEx-050D11-52/2005*, Genic Sequences Bioinformatics Implied for Procaryotes Cellular Division, director Conf.dr.ing Petre Pop.
- 2005–2006 **Member**, *international research grant with third persons 16933/23.09.2005*, director Ş.I.dr.ing. Gabriel Chindriş.
- 2003–2004 **Member**, *CNCSIS grant, A-33532/2003*, Adaptive Filters with Variable Structure, director Prof.dr.ing. Corneliu Rusu.

Organizing Committee Member

- 9–10 Jul 2007 **Recent Trends in Signal Processing**, *Workshop*, Cluj-Napoca, <http://sp.utcluj.ro/html/rtsp2k7.html>, CNCSIS-PNCDI-WE grant.
- 3–4 Jul 2008 **Signal Processing Systems for Wireless Communications**, *Workshop*, Cluj-Napoca, <http://sp.utcluj.ro/html/spswc2k8.html>, CNCSIS-PNCDI-WE grant.

Courses

- 6–8 Oct 2005 **Autumn School in Computational Intelligence and Information Technologies**, Faculty of Electronics from Niš, Serbia.

IEEE Graduate Student Member

Signal Processing Society, Circuits and Systems Society, Women in Engineering.

Interests Domain

Digital Signal Processing, Optical Signal Processing, Microprocessors Systems.

Foreign Languages

English, French, German.

Publications

- [1] L. Grama and C. Rusu, *Prelucrarea numerică a semnalelor - aplicații and probleme*. Cluj-Napoca: Ed. U.T.PRESS, **2008**, ISBN: 978-973-662-387-5.
- [2] L. Grama, A. Grama and C. Rusu, *Filtre numerice - aplicații and probleme*. Cluj-Napoca: Ed. U.T.PRESS, **2008**, ISBN: 978-973-662-388-2.
- [3] L. Grama and A. Grama, *Înregistrări and prelucrări optice*. Cluj-Napoca: Ed. RISOPRINT, **2005**, ISBN: 973-656-901-2.
- [4] L. Grama and A. Dișcant, "Kramers-Kronig Relationship Computation by Gaussian Quadrature," *International Journal of Computers, Communications and Control*, vol. 1, nr. Supplement S, pp. 239–244, June **2006**, ISSN: 1841-9836.
- [5] A. Grama and L. Grama, "DDFS's Mathematical Approach Designing Considerations," *International Journal of Computers, Communications and Control*, vol. 1, nr. Supplement S, pp. 233–238, June **2006**, ISSN: 1841-9836.
- [6] L. Grama and C. Rusu, "Divide-and-Conquer Piecewise Approximation of Gain and Phase Evaluation," *Acta Technica Napocensis - Electronics and Telecommunications*. Cluj-Napoca, România: Ed. Mediamira, **2009**, vol. 50, nr. 1, pp. 7–14, ISSN: 1221-6542.
- [7] C. Rusu, S. Cadar, S. Corbu, L. Grama and M. Sîrbu, "Design of an Intelligent System for Monitoring and Assisting of Neoplasic Patients," *Acta Technica Napocensis - Electronics and Telecommunications*. Cluj-Napoca, România: Ed. Mediamira, **2008**, vol. 49, nr. 4, pp. 42–45, ISSN: 1221-6542.
- [8] C. Rus, L. Grama, A. Dușleag and C. Rusu, "Phase Unwrapping Algorithms Implemented on a Symbian based Mobile Device," *Acta Technica Napocensis - Electronics and Telecommunications*. Cluj-Napoca, România: Ed. Mediamira, **2008**, vol. 49, nr. 2, pp. 11–17, ISSN: 1221-6542.
- [9] L. Grama, "Phase Approximation Using Signals Affected by Random Perturbations," *Buletinul Științific al Universității Politehnica din Timișoara*, Timișoara, România, October **2004**, pp. 96–101, ISSN: 1583-3380.
- [10] C. Rusu, C. Băluț and L. Grama, "Aliniere de secvențe genomice," *Buletinul Societății Naționale de Biologie Celulară*. Cluj-Napoca, România: Ed. RISOPRINT, **2008**, nr. 36, p. 33, ISSN: 1584-5532.

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- [11] L. Grama, "Report on 2007 Workshop on Recent Trends in Signal Processing (RTSP 2007)," *Novice Insights in Electronics, Communications and Information Technology*. Cluj-Napoca, România: Ed. Mediamira, **2007**, nr. 1, pp. 39–41, ISSN: 1842-6085.
- [12] L. Grama and C. Rusu, "Divide-and-Conquer Piecewise Linear Fitting of Gain for Phase Approximation," *Proceedings of IEEE NEWCAS-TAISA 2009*, Toulouse, France, 28 June-1 July **2009**, to be published.
- [13] A. Grama, L. Grama, D. Petreuş and C. Rusu, "Modelling Supercapacitor Using Experimental Measurements," *Proceedings of the International Symposium on Signals, Circuits and Systems*, Iaand, Romania, 9-10 July **2009**, to be published.
- [14] L. Grama and C. Rusu, "Phase Approximation by Divide-and-Conquer Piecewise Linear Fitting of Gain," *Proceedings of the International Symposium on Signals, Circuits and Systems*, Iaand, Romania, 9-10 July **2009**, to be published.
- [15] C. Rusu and L. Grama, "Gain-Phase Relationships Evaluation by Gaussian Quadrature," *Proceedings of ICSES 2008 International Conference on Signals and Electronic Systems*, Krakow, Poland, 14-17 September **2008**, pp. 23–26, ISBN: 978-83-88309-47-2, IEEEXplore DOI: 10.1109/ICSES.2008.4673347.
- [16] L. Buzan, C. Rusu, R. C. Bîlcu and P. Kuosmanen, "Phase Approximation in Linear and Logarithmic Frequency Domain," *Proceedings of First International Symposium on Control, Communications and Signal Processing*, Hammamet, Tunisia, March **2004**, pp. 709–712, ISBN: 0-7803-8380-X, IEEEXplore DOI: 10.1109/ISCCSP.2004.1296510.
- [17] L. Grama, "Phase Approximation from Gain Corrupted Data in Linear Frequency Domain," *Proceedings of the International Carpathian Control Conference*, Zakopane, Poland, 24-26 May **2009**, to be published.
- [18] L. Grama, "Logarithmic Gain Altered Data and Phase Computation," *Proceedings of the International Carpathian Control Conference*, Zakopane, Poland, 24-26 May **2009**, to be published.
- [19] A. Grama, D. Petreuş, P. Borza and L. Grama, "Experimental Determination of Equivalent Series Resistance of a Supercapacitor," *Proceedings of 32th International Spring Seminar on Electronics Technology*, Brno, Czech Republic, 13-17 May **2009**, to be published.
- [20] C. Rusu, L. Grama and J. Takala, "SPICE Simulation of Analogue Filters: A Method for Designing Digital Filters," *EUROCAST 2009 Twelve International Conference on Computer Aided Systems Theory - Extended Abstracts*, Las Palmas de Gran Canaria, Spain, 15-20 February **2009**, pp. 179–180, ISBN: 978-84-691-5502-5.
- [21] A. Grama and L. Grama, "Different Implementations for Frequency Synthesis," *Proceedings of the International Symposium for Design and Technology of Electronic Packaging*, Baia-Mare, România, 20-23 September **2007**, pp. 102–105, ISSN: 1843-5122.
- [22] L. Grama and A. Grama, "Linear and Logarithmic Sampling of Gain to Approximate the Phase of Signals," *Proceedings of the International Symposium for Design and Technology of Electronic Packaging*, Baia-Mare, România, 20-23 September **2007**, pp. 106–110, ISSN: 1843-5122.
- [23] L. Grama, C. Rusu and A. Grama, "Hilbert Transform Computation by Gaussian Quadrature," *Proceedings of 6th International Conference Communications*, Bucureşti, România, 8-10 June **2006**, pp. 53–56, ISBN: 973-718-479-3, 973-718-479-5.
- [24] L. Grama, "A Simple Illustration of Tabu Search," *The Proceedings of the International Workshop of Collaborative Support Systems in Business and Education*, Cluj-Napoca, România, 28-29 October **2005**, pp. 130–137, ISBN: 973-651-008-9.
- [25] L. Grama, G. Muntean and A. Grama, "Self Oscillating IIR Filter to Generate Sine Waveform Signal," *Proceedings of the International Symposium for Design and Technology of Electronic Packaging*, Cluj-Napoca, România, September **2005**, pp. 186–190, ISBN: 973-713-063-4.
- [26] G. Muntean, A. Grama and L. Grama, "Biomedical Applications of the NTC Thermistor," *Proceedings of the International Symposium for Design and Technology of Electronic Packaging*, Cluj-Napoca, România, September **2005**, pp. 132–136, ISBN: 973-713-063-4.
- [27] A. Grama, L. Grama and G. Muntean, "FPGA's Capabilities to Generate Arbitrary Functions," *Proceedings of the International Symposium for Design and Technology of Electronic Packaging*, Cluj-Napoca, România, September **2005**, pp. 137–140, ISBN: 973-713-063-4.
- [28] L. Grama and A. Grama, "Scurt istoric al amprentelor digitale," *Workshop cu participare Internațională - Verificatori biometrici*, Cluj-Napoca, România, 26-27 May **2005**, pp. 217–222, ISBN: 973-656-918-7.
- [29] L. Grama, "Phase Approximation in Linear and Logarithmic Frequency Domain," *The Proceedings of the Central and East European Conference in Business Information Systems*, Cluj-Napoca, România, 20-22 May **2004**, pp. 517–527, ISBN: 973-656-648-X.