

*November 2007
Cluj-Napoca*

Annamaria Mesaros

Date and place of birth: 13.03.1978, Baia Mare, Romania

Nationality: romanian

annamaria.mesaros@gmail.com

Education:

- 2006 – 2007 Researcher, Ph.D student
Institute of Signa Processing, Tampere University of Technology
Tampere, Finland
- 2005 – 2006 Assistant, Ph.D student
Communications department, Faculty of Electronics, Communications and
Information Technology
Technical University of Cluj-Napoca, Romania
- 2002 – 2005 Laboratory exercise instructor, Ph.D student
Communications department, Faculty of Electronics, Communications and
Information Technology
Technical University of Cluj-Napoca, Romania
- 2001 – 2002 M.Sc, Modern Techniques in Telecommunications
Communications department, Faculty of Electronics, Communications and
Information Technology
Technical University of Cluj-Napoca, Romania
- 2001 B.Sc. Digital Networks in Telecommunications
Communications department, Faculty of Electronics, Communications and
Information Technology
Technical University of Cluj-Napoca, Romania

Research interests:

Human auditory system, perception, speech production, musical acoustics, music information retrieval

Research activity:**Scholarships:**

from nov 2006 – Tampere University of Technology. Tampere, Finland, GETA (Graduate School in Electronics, Telecommunications and Automation, Helsinki, Finland), 4 years

sept 2004 – may 2005 – Tampere International Centre for Signal Processing, Tampere University of Technology, Finland, CIMO (Centre for International Mobility, Helsinki, Finland), 9 months

Participation in research grants, funded by the Romanian National University Research Council:

Studies of the timbre structure of musical signals for their identification – director, CNCSIS grant TD 235/2004

Access control biometric systems based on vocal print – participating researcher, CNCSIS grant A 1027/2004 (director Prof.Dr.Eng. Eugen Lupu)

Molecular mechanisms of recognition and cellular adhesion in glicane-glicane interactions – participating researcher, CNCSIS grant AC 10/2005 (director Prof.Dr.Eng. Eugen Lupu)

Bioinformatics of gene sequences for procariotes celular division, participating researcher, PNCDI grant Cex-050D11 52/2005 (director Conf. Dr. Petre Pop)

Member of the editorial staff of “Novice Insights in Electronics, Communications and Information Technology” magazine, Faculty of Electronics, Communications and Information Technology, Technical University of Cluj-Napoca, Romania

Language skills: English – very good, French – conversational level

Publications:

International conferences with review process:

1. Mesaros, A., Lupu, E., Rusu, C. – Singing voice features by time-frequency representations, *Proceedings of the 3rd International Symposium on Image and Signal Processing and Analysis, ISPA 2003*, Rome, Italy, 2003
2. Mesaros, A., Lupu, E. - Musical instrument class identification using cepstral coefficients derived from a constant Q transform, *Acta Tehnica Napocensis*, 45 /1, 2003
3. Mesaros, A., Rusu, C. – An exploration of singing voice individuality, *Analysis of Biomedical Signals and Images, Proceedings of 17th Biennial International EURASIP Conference Biosignal 2004*, Brno, Czech Republic, 2004
4. Mesaros, A., Astola, J. – Inter-dependence of Spectral Measures for the Singing Voice, *International Symposium on Signals, Circuits and Systems, ISSCS 2005, Iasi, Romania, 2005*
5. Mesaros, A., Astola, J. – The Mel-Frequency Cepstral Coefficients in the Context of Singing Voice, *6th International Conference on Music Information Retrieval, ISMIR 2005*, London, UK, 2005
6. Mesaros, A., Lupu, E. – Closed Phase Detection in the Singing Voice Using Information About Formant Frequencies During One Glottal Cycle, *10th International Conference on Speech and Computer, SPECOM 2005*, Patras, Greece, 2005
7. Mesaros, A. - Modelarea vocii cantate prin coeficienti cepstrali si retele neuronale, *Workshop Verificatori Biometrici, Cluj-Napoca, Romania, 2005*
8. Mesaros, A. – On the Use of Genetic Algorithms in Molecular Modeling, *International Conference on Computers, Communications and Control, ICCCC 2006*, Oradea, Romania, 2006
9. Mesaros, A. – Estimation of Closed Glottis Phase in Professional singing Voice Using the Frobenius Norm, *Analysis of Biomedical Signals and Images, Proceedings of 18th Biennial International EURASIP Conference Biosignal 2006*, Brno, Czech Republic, 2006
10. Mesaros, A. – Spectrum characteristics of singing voice signals and their usefulness in singer identification, *6th Communications International Conference, COMM2006*, Bucharest, Romania, 2006

11. Mesaros, A., Moldovan, S. - Methods for singing voice identification using energy coefficients as features, *2006 IEEE-TTTC International Conference on Automation, Quality and Testing Robotics AQTR 2006 (THETA 15)*, Cluj-Napoca, Romania, 2006
12. Mesaros, A., Moldovan, S., Lupu, E. - Band decomposition of voice signals using wavelets defined from fractional B-spline functions, *48-th International Symposium ELMAR-2006 focused on Multimedia Signal Processing and Communications*, Zadar, Croatia, 2006
13. Mesaros, A., Moldovan, S. - Methods for singing voice identification using energy coefficients as features, to appear in *Acta Tehnica Napocensis*, 48, 2007
14. Mesaros, A., Virtanen, T., Klapuri, A. - Singer identification in polyphonic music using vocal separation and pattern recognition methods, *8-th International Conference on Music Information Retrieval ISMIR 2007*, Vienna, Austria, 2007

Contributions to books:

15. Lupu, E., Mesaros, A., Suciu, A.F., *Microprocessors - Architectures and Applications*, RISOPRINT Publishing, Cluj-Napoca, 2003
16. Lupu, E., Mesaros, A., Moldovan, S., *Programming in x86 Assembly Language* (in romanian), RISOPRINT Publishing, Cluj-Napoca, 2006