

Curriculum Vitae

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Education:

- 2004 - Present: PhD student at Technical University of Cluj-Napoca. From 2005 to 2007, also at Max Planck Institute for Brain Research and Frankfurt Institute for Advanced Studies in Frankfurt AM – Germany.
- 2003 - 2004: Post university studies: Technical University of Cluj-Napoca, Faculty of Electronics and Telecommunications, Advanced techniques in Telecommunications.
- 1998 - 2003: Technical University of Cluj-Napoca, Faculty of Electronics and Telecommunications, Applied Electronics.
- 1994 - 1998: Computer Science High School "Tiberiu Popoviciu", Cluj-Napoca.

Scientific activity:

- 2007 - Present: Researcher in the Experimental and Theoretical Neuroscience Laboratory at the Center for Cognitive and Neural Studies (Coneural) in Cluj-Napoca, Romania.
- 2005 - 2007: Invited researcher at Max Planck Institute for Brain Research and Frankfurt Institute for Advanced Studies in Frankfurt AM – Germany.

Professional activity:

- 2003 - 2005: Employee of SC. Hanna Instruments Romania SRL from August 2003 to February 2005, working as software engineer in the R&D department on software design and implementation of embedded chemical measurement and control devices.

Languages:

Romanian – native, English – fluent, French – average, Italian – average.

Publications in international journals:

- 1] **Moca, V. V.**, Scheller, B., Mureşan, R. C., Daunderer, M., & Pipa, G. (2009). EEG under anesthesia—feature extraction with TESPAPAR. *Comput Methods Programs Biomed*, 95(3), 191–202.
- 2] Mureşan, R. C., Jurjuţ, O. F., **Moca, V. V.**, Singer, W., & Nikolić, D. (2008). The oscillation score: an efficient method for estimating oscillation strength in neuronal activity. *J Neurophysiol*, 99(3), 1333–1353.
- 3] Nikolić, D., **Moca, V. V.**, Singer, W., & Mureşan, R. C. (2008). Properties of multivariate data investigated by fractal dimensionality. *J Neurosci Methods*, 172(1), 27–33.

Publication in local journals:

- 4] **Moca, V. V.** (2006). TESPAPAR a biometric time domain approach to speaker recognition. *Acta Technica Napocensis*, 47(2), 57–62. ISSN 1221-6542.

Participation at international conferences:

- 5] **Moca, V. V.**, Scheller, B., Mureşan, R. C., Daunderer, M., & Pipa, G. (2009). EEG processing with TESPAPAR for depth of anesthesia detection. In *(CNS Meeting 09) Berlin Germany: BMC Neuroscience 10 (Suppl 1)* (pp.68). Berlin, Germany.
- 6] **Moca, V. V.**, Scheller, B., Mureşan, R. C., Daunderer, M., & Pipa, G. (2009). Importance of EEG frequency bands in the assessment of depth of anesthesia. In *ASSC XIII* (pp. 187). Berlin, Germany.
- 7] Mureşan, R. C., Ţincas, I., **Moca, V. V.**, & Melloni, L. (2009). Probing the visual system with visual hypotheses. In *(CNS Meeting 09) Berlin Germany: BMC Neuroscience 10 (Suppl 1)* (pp. 356). Berlin, Germany.
- 8] Mureşan, R. C., Ţincas, I., **Moca, V. V.**, & Melloni, L. (2009). Vision by inference: visual recognition under uncertainty. In *ASSC XIII* (pp. 195). Berlin, Germany.
- 9] **Moca, V. V.**, Nikolić, D., & Mureşan, R. C. (2008). Real and modeled spike trains: Where do they meet? In V. Kůrková, R. Neruda, & J. Koutník (Eds.), *Proceedings of the 18th ICANN (2)*, volume 5164 of *Lecture Notes in Computer Science* (pp. 488–497). Prague, Czech Republic: Springer.

Participation at local national and international conferences:

- 10] **Moca, V. V.**, Scheller, B., Pipa, G., & Lupu, E. (2007). TESPAPAR - towards biomedical applications. In *1st International Conference on Advancements of Medicine and Health Care through Technology, MediTech2007* (pp. 281–286). Cluj-Napoca, Romania.
- 11] **Moca, V.**, Lupu, E., & Pop, P. (2005). TESPAPAR coding method evaluation in speaker recognition experiments. In *Trends in Speech Technology Proceedings of the 3rd Conference Speech Technology and Human-Computer-Dialogue: SpeD 2005* (pp. 201–212). Cluj-Napoca, Romania. ISBN 973-27-1178-7.
- 12] **Moca, V. V.** (2005). TESPAPAR a robust voice biometric. In *Verificatori biometrici workshop Cluj-Napoca* Cluj-Napoca, Romania. ISBN 973-656-918-7.
- 13] Lupu, E., **Moca, V. V.**, & Pop, P. G. (2004). Application for TESPAPAR coding study and speaker recognition experiments. In *Scientific bulletin POLITEHNICA University of Timişoara, Proceedings of Symposium on Electronics and Telecommunications Etc 2004*, volume 1 (pp. 279–282). Timişoara, Romania. ISSN 1583-3380.
- 14] Lupu, E., **Moca, V. V.**, & Pop, P. G. (2004). Environment for speaker recognition using speech coding. In *Proceedings of Communications*, volume 1 (pp. 199–204). Bucharest, Romania. ISBN 973-640-036-0.
- 15] Lupu, E., **Moca, V. V.**, & Pop, P. G. (2003). TESPAPAR coding study for speaker recognition. In *The 30th session of scientific presentations "Modern technologies in the XXI Century" Bucharest* (pp. 214–221). Bucharest, Romania. ISBN 973-640-012-3.

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