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### **Assistant Professor**

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### **Education**

1994 – 1999 "Politehnica" University of Bucharest, Romania, Faculty of Electronics and Telecommunications, Telecommunications Department, Engineer Diploma in Communications area

1999 – 2000 "Politehnica" University of Bucharest, Romania, Faculty of Electronics and Telecommunications, Master of Science in Electrical Engineering (MSSE), specialty Digital Signal Processing.

### **Academic Experience**

1999 – 2005 Teaching Assistant, "Politehnica" University of Bucharest, Romania, Faculty of Electronics and Telecommunications, Telecommunications Department.

2005 – 2009 Assistant Professor, "Politehnica" University of Bucharest, Romania, Faculty of Electronics and Telecommunications, Telecommunications Department.

### **Research Areas**

Real Time Digital Signal Processing, Digital Signal and Image Processing with focus on communications and multimedia systems, Hardware - Software DSP processor systems, Digital Image and Video Processing.

### **Papers in International Journals and Conferences**

- **R. M. Udrea**, D. N. Vizireanu, S. Ciochina, "An improved spectral subtraction method for speech enhancement using a perceptual weighting filter", Digital Signal Processing, Elsevier, ISSN: 1051-2004 2008, vol. 18, p. 581-587.
- **R. M. Udrea**, D. N. Vizireanu, S. Ciochina and S. Halunga, "Nonlinear spectral subtraction method for colored noise reduction using multi-band Bark scale", Signal Processing, Elsevier, ISSN: 0165-1684, 2008, vol. 88, issue 5, p. 1299-1303.
- **R.M. Udrea**, D.N. Vizireanu, I. Pirnog, "A Perceptual Approach for Noise Reduction using Nonlinear Spectral Subtraction", 8th International Conference on telecommunications in Modern Satellite, Cable and Broadcasting Services TELSIKS'2007, Nis, Serbia si Muntenegru, 26-28 September, 2007.
- **R. M. Udrea**, S. Ciochină, D. N. Vizireanu, "Reduction of Background Noise from Affected Speech using a Spectral Subtraction Algorithm based on Masking Properties of the Human Ear", 7th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services TELSIKS'2005, Nis, Serbia si Muntenegru, 28-30 September, 2005, pp. 135-138.
- **R. M. Udrea**, D. N. Vizireanu, M. Răducanu, "Noise Reduction using Spectral Over-Subtraction Algorithm implemented on Motorola MSC8101DSP", Proceedings of the International Conference "Communications 2004", June 3-5, 2004, Bucharest, Vol. 1, pp. 193-199.
- **R. M. Udrea**, D. V. Ene, "Digital Video Broadcasting Terrestrial Modulator Implemented on Motorola MSC8101 DSP", Proceedings of the Symposium "Etc. 2004", October 22-23, 2004, Timișoara, Romania, pp. 231-234.