

Lecturer Pirnog Ionuț

Competence areas: Digital Image Processing, Digital Video Processing, Multimedia Security, Medical Imaging

Scientific activity: Main author of one and joint author of 3 laboratory books; author of **3 papers published in international journals**; author of **16 conference papers** (9 papers indexed by ISI Web of Science and 7 papers indexed by other international databases). Member in 5 research teams for national and international projects, **1 of them as project manager**.

Representative articles associated to the project's theme:

1. **I. PIRNOG**, C. C. Oprea, "Block Matching Motion Estimation with Variable Search Window Size", International Journal On Advances in Software, Volume 4, Number 3&4, 2011, published by IARIA, ISSN: 1942-2628, pp. 521-531.
2. **I. PIRNOG**, C. Anghel, A. A. Enescu, C. Paleologu, "Evaluation of Fast Algorithms for Motion Estimation," AICT 2011, The Seventh Advanced International Conference on Telecommunications, pp. 107-111, Mar. 2011.
3. **I. PIRNOG**, R. M. Udrea, C. Paleologu, "An Improved Region Growth Method", Proc. Communications 2008, pp. 129-132, Bucharest, June 2008.
4. **I. PIRNOG**, C. Oprea, C. Paleologu, "Image Content Extraction Using a Bottom-Up Visual Attention Model", Third International Conference on Digital Society 2009, ICDS '09, pp. 300-303, Cancun, Mexico, 1-7 Feb. 2009, ISBN: 978-1-4244-3350-6.
5. **I. PIRNOG**, R.M. Udrea, C. Paleologu, "Efficient Method for Content Extraction Applied in Multimedia Communication", Proc. IEEE Int. Conf. on Networking (ICN), pp. 202-206, Cancun, Mexico, Apr. 2008, ISBN 978-1-4244-4234-8.
6. **I. PIRNOG**, D.N. Vizireanu, R. M. Udrea. C. C. Oprea, "New Content Analysis Methods Effective in Multimedia Based Services", IEEE TELSIS 2007, 8th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services, pp.433-436, Nis, Serbia and Montenegro, 26-28 Sept. 2007.
7. **I. PIRNOG**, R.O. Preda, C. Oprea, C. Paleologu, "Automatic Lesion Segmentation for Melanoma Diagnostics in Macroscopic Images," in Proc. European Signal Processing Conference (EUSIPCO 2015), pp. 664-668, September 2015.
8. E. Achimescu, R.O. Preda, N. Vizireanu, **I. Pirnog**, "Multiple Point Android Digital Image Authentication," in Proc. of International Symposium on Signals, Circuits and Systems (ISSCS 2015), pp. 1-4, Print ISBN: 978-1-4673-7487-3, INSPEC Accession Number: 15367259, Iasi, Romania, DOI: 10.1109/ISSCS.2015.7203945.
9. **I. PIRNOG**, C. Oprea, "Cutaneous melanoma risk evaluation through digital image processing", 11th International Symposium on Electronics and Telecommunications 2014, ISETC 2014, pp. 257-260, 14-15 Nov. 2014, Timisoara, Romania, ISBN: 978-1-4799-7265-4.

Research grants as project coordinator:

1. *Contributions to the study, development and optimization of automatic methods for generating, extraction and reconstruction of metadata used interactive multimedia services.*, research project for young PhD students, funding agency: Romanian National Authority for Scientific Research (CNCSIS), code CNCSIS 2C/2007, 2007 – 2008.

Research grants as team member:

1. ENTHRONE II- End-to-End QoS through Integrated Management of Content, Networks and Terminals, Contract No. 038463, PC6, 2006-2008.
2. *Adaptive noise cancellation methods for multi-channel voice communication systems*, research project for young research teams, funding agency: Romanian National Authority for Scientific Research (CNCS – UEFISCDI), project number PN-II-PCE-Idei 331/01.10.2007, 2007-2011.
3. *New adaptive algorithms with variable convergence*, research project for young research teams, funding agency: Romanian National Authority for Scientific Research (CNCS – UEFISCDI), project number PN-II-RU-TE 7/05.08.2010, 2010-2014.
4. *Contributions to multimedia content authentication for forensics applications using digital watermarking techniques*, research project for young research teams, funding agency: Romanian National Authority for Scientific Research (CNCS – UEFISCDI), project number PN-II-RU-TE-2011-3-0261, 2011-2014.