

Call for Papers

:: Scope

The inter-disciplinary approach is becoming more and more a trend in scientific and engineering communities. This trend is confirmed by the strong connections between two of the most prosperous research areas, biomedical and communication engineering, also with respect to pure sciences (e.g., mathematics and physics), which applied to the former show to be extremely powerful tools. This symposium provides an ideal platform for worldwide engineers and scientists. Indeed, internationally recognized researchers and practitioners will share cutting-edge information, address hot issues, explore emerging technologies, exchange and build upon ideas. Particular stress will be put on the current and potential connections between pure sciences, biomedical and communication engineering, highlighting the beneficial synergies among these research areas. Due to the great impact and strong development in the recent and upcoming years, ISABEL 2009 will be also focused on all applications and research results in the area of e-Health and, in particular, the business process management in clinical settings and medical applications.

:: Topics of Interest (but NOT limited to)

- :: Bio-Nanotechnologies
- :: Tele Healthcare, Medical Applications and Healthcare Information Systems
- :: Medical decision support methods
- :: Workflow Management Systems in Healthcare
- :: Biosensors, Biomaterials and Tissue Engineering
- :: Biomedical Signal Processing
- :: Biomedical Sensor Networks
- :: Number Theory Applied to Wireless Communications
- :: Game Theory for Flexible Spectrum Usage
- :: Optimization Problems for Cognitive Radio and Advanced Spectrum Management
- :: Self-Organizing Networks and Advances in Network Theory
- :: Bio-Inspired Algorithms for Information and Communication Technologies
- :: Machine Learning for Cognitive Radio
- :: Quantum Communications
- :: Mathematics of the Brain
- :: Biophysical Modeling
- :: Blind Source Separation and Source Identification
- :: Wavelets and Multi-Rate Signal Processing
- :: Compression of Biomedical Signals and Images
- :: Wireless implantable Devices for Neural Interfaces
- :: Propagation Models for Wireless Biomedical Applications
- :: Medical Image Detection, Acquisition, Analysis and Processing
- :: Electromagnetic Impact on Human Body
- :: Sustainable "Green" Communication and Bio-medical Technologies

:: Organizing Committee

Zuzana Ševčíková (Communications)
Ondrej Gallo (Financial Matters)
Stanislav Marček (Web Pages)
Martin Riesz (Technical Support)

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:: Technical Program Committee Members

Fedor Lehocki (TPC Chair), Slovak University of Technology.
Simone Frattasi (Co-Founder and TPC Co-Chair), P&V, Denmark.
Nicola Marchetti (Co-Founder and TPC Co-Chair), AAU, Denmark.

:: Submission Guidelines

Submitted papers must represent original material that is not currently under review in any other conference or journal, and has not been previously published. Prospective authors are encouraged to submit **Full Papers** (max 6-pages length) in the IEEE conference styles. However, **Extended Abstracts** (max 2-pages length) will be also considered for publication.

Please find detailed information for submission at <http://www.isabel2009.sk> under Submission section. All accepted papers will be granted either an *Oral Presentation* or a *Poster Presentation*.

:: Important Dates

:: Research paper submission deadline:

04/September/2009

:: Notification of acceptance:

16/October/2009

:: Camera-ready submission:

31/October/2009

:: Tutorial paper submission deadline:

04/September/2009

:: Notification of acceptance:

16/October/2009

:: Camera-ready paper or presentation submission:

31/October/2009

:: Tool and prototype paper submission deadline:

04/September/2009

:: Notification of acceptance:

16/October/2009

:: Camera-ready paper or presentation submission:

31/October/2009

:: Registration deadline:

31/October/2009

:: Early registration deadline:

31/October/2009

:: Hotel reservation:

:: Awards

The best paper award will be given to the author(s) of the best full paper presented at ISABEL 2009.

:: Dissemination

All accepted papers will be published in **IEEE Xplore**. Selected authors will be invited to submit extended versions of their papers that will be considered for publication in **Elsevier journal – Biomedical Signal Processing and Control** and **Elsevier journal - Computer Communications**.

:: Contact Information

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