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## Call for Papers

### AUTOMATIKA: Journal for Control, Measurement, Electronics, Computing and Communications

#### Special Issue on Recent Advances in Biomedical Engineering

in honour to Professor Ante Šantić

On the occasion of the 50<sup>th</sup> anniversary of the International Federation for Medical and Biological Engineering (IFMBE) we are preparing this special issue focusing on recent advances in Biomedical engineering. Biomedical engineering is a discipline that advances knowledge in engineering, biology and medicine, and improves human health through cross-disciplinary activities that integrate the engineering sciences with the biomedical sciences and clinical practice. It includes: (i) the acquisition of new knowledge and understanding of living systems through the innovative and substantive application of experimental and analytical techniques based on the engineering sciences; and (ii) the development of new devices, algorithms, processes and systems that advance biology and medicine and improve medical practice and health care delivery. The goal of this special issue of *Automatika - Journal for Control, Measurement, Electronics, Computing and Communications* is to report on significant new developments within the field of Biomedical Engineering. We dedicate this special issue to the memory of Professor Ante Šantić (1928-2008), our teacher and mentor, who was internationally recognized scientist in the field of biomedical electronics and electronic instrumentation and the founder of these disciplines in Croatia.

#### Topics

List of topics for this special issue includes but is not limited to:

- Assistive Technologies & Ambient Intelligence
- Artificial Intelligence in Medicine
- Biomedical Instrumentation and Measurement
- Biomedical Signal Processing
- Biomedical Image Processing
- Cellular and Biomolecular Engineering
- Computational Modelling of Biological Systems
- E-Health & M-Health
- Functional Electrical and Magnetic Stimulation
- Gait and Motion Analysis
- Medical Devices
- Medical Imaging
- Rehabilitation Engineering
- Robotics and Haptics

#### Important dates:

<b>July 15, 2010</b>	Paper Submission:
<b>October 15, 2010</b>	Completion of First Review
<b>November 15, 2010</b>	Submission of Revised Papers
<b>January 31, 2011</b>	Completion of Final Review
<b>February 28, 2011</b>	Submission of Final Manuscripts
<b>Spring 2011</b>	Publication

#### Manuscript Submission

High-quality original research contributions or excellent quality review papers prepared in accordance with the guidelines of AUTOMATIKA <http://www.korema.hr/automatika/instructions.html> will be considered for publication. Prospective authors should submit a full paper to the guest editors. Submitted manuscripts must not have been previously published or be under review for possible publication. All papers will be reviewed following the regular reviewing procedure of AUTOMATIKA.

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