



ORGANIZED BY

- IEEE IMS TC-25 Medical and Biological Measurements
- IEEE Ottawa Section



PATRONS:

- Université du Québec en Outaouais, Gatineau
- University of Ottawa
- Carleton University, Ottawa
- Decanex Inc., Toronto

Medical instrumentation and measurement form the first link in the chain connecting engineering to medicine. At this stage, flaws may lead to a myriad of repercussions at all levels, starting with the safety and efficacy of care. The importance of measurement in medical applications is growing continuously as increasingly sophisticated techniques become available for general, unsupervised use.

The goal of this 8th edition of the MeMeA symposium is to present novel solutions to instrumentation and measurement problems encountered in modern health care. Main topics include:

- Sensors for medical systems / Sensor fusion and calibration
- Biosignal processing
- Imaging and communication
- Measurement and quality control in medical preparations
- Standards for medical applications
- Embedded systems
- Environmental Medicine
- Home automation for disability, injury, disease or old age
- Bioengineering and rehabilitation
- Biomedical robotic methods/Robot-mediated motor therapy
- Ecological model of measurement in medical applications
- Monitoring rehabilitation and accelerometry
- IT in Medicine
- Patient safety/Medical and instrumentation errors

Authors are invited to submit extended abstracts (4 pages) or draft papers reporting original research of theoretical or applied nature. The submission should explain the significance of the contribution and contain a list of key references. The manuscripts must be prepared in English according to guidelines provided on the MeMeA 2013 website (<http://memea2013.ieee-ims.org/>).

Provisionary Important Deadlines:

December 20, 2012 Deadline for submission of extended abstracts.

January 20, 2013 Notification to authors of accept / reject decisions.

March 20, 2013 Deadline for submission of camera-ready, full-length papers.

SPECIAL ISSUE OF IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT:

A Special Issue of IEEE Transactions on Instrumentation and Measurement (TIM) will be published. It will contain papers selected on the basis of the results of regular peer review of the manuscripts. Each manuscript has to meet the scope of the TIM and be based on a paper published in the symposium proceedings and presented. However, the manuscript must be significantly extended beyond the scope of the proceedings paper in terms of the overall technical content and research results.