







**IEEE Instrumentation and Measurement Technology Conference** 

The 22nd Renewal

Fairmont Chateau Laurier Hotel, Ottawa, Ontario, CANADA 17-19 May 2005 (Tuesday -Thursday)

Call for Papers

The conference studies all aspects of instrumentation, measurement and control technologies - theory, research and development and applications. Program topics include but are not limited to:

# MEASUREMENT SCIENCE

Metrology & standards Measurement principles education

# DATA ACQUISITION

Sensors & transducers, smart sensors Calibration & self-calibration A/D, D/A & data acquisition Remote measurements & telemetry Waveform measurement, analysis & generation Sensitivity & noise

# INSTRUMENTATION TECHNOLOGIES

Automated test & measurement systems Instrumentation & prototype development Frequency, microwave and laser I&M systems Integrated & visual measurement systems Human-computer interface Networked & distributed measurements Autonomous sensing & measurement systems Non-invasive instrumentation & measurement Measurement microsystems Testing & diagnosis of I&M systems Fault-tolerant & resilient I&M systems

## DATA PROCESSING TECHNOLOGIES

Analog, digital & mixed-signal processing Image processing & imaging systems Identification, control & distributed monitoring System prediction & sensor fusion Soft computing for intelligent I&M systems

## PHYSICAL QUANTITIES MEASUREMENTS

Electrical & power measurements Dielectric, magnetic and EMC measurements Temperature, moisture & humidity measurements Mechanical quantities & material analysis Optical & nuclear measurements Chemical & biological measurements

#### MEASUREMENT APPLICATIONS

Robotics, industrial automation & manufacturing Automotive & transportation Avionics & aerospace Environmental monitoring Medicine & science Security & biometrics Telecommunications Virtual environments

Authors will submit electronically 1 copy of an extended abstract (3 or 4 pages) *in English*, reflecting new or advanced study, theory or application and including the significance of the contribution, a list of references and figures or tables. Abstracts must be prepared according to the Abstract Preparation Guide and must be accompanied by an Abstract Submission Form. Both documents may be downloaded from the IMTC website  $-\frac{http://www.ieee-imtc.org}{2}$  Check the website for all instructions and details. Important dates:

- 4 October 2004 Abstract submission deadline submit to lee.myers@ieee.org
- 17 December 2004 Author notification of acceptance or rejection
- 4 March 2005 Deadline for receipt of final manuscript

Papers will be reviewed by the IMTC International Program Committee. Authors of accepted abstracts *must guarantee they will register at the conference, pay registration fees, attend and present their papers*. An accepted paper will be published in the proceedings only if the final manuscript is accompanied by registration form(s) and fee(s) for at least one of the authors (only *full member/non-member registration fees* will be allowed – *no exceptions!*) One author registration covers publication of up to 2 accepted papers; each additional paper under the same registration requiring a publication fee of US\$50. Authors of accepted and presented papers may submit extended manuscripts to the special issue of *IEEE Transactions on Instrumentation & Measurement* on IMTC/2005, to be published in 2006.

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