2012 IEEE International Instrumentation and Measurement Technology Conference

"Smart Measurements for a Sustainable Environment"

IEEE

**Congress Graz
Graz, Austria
May 13–16, 2012**

TU Graz
virtual vehicle

Call for Papers

Extended Abstract Deadline November 30th

The conference focuses on research, development and applications in the field of instrumentation and measurement science and technology. The conference also includes **Industrial Tracks** reflecting current opportunities for the mutually beneficial fusion of basic research and industrial applications. These tracks are highlighted by **Keynote Presentations** and are thematically coupled with **Tutorials** on May 13th.

A **Student Paper Contest** will be held for both graduate and undergraduate student papers, with cash awards for the best papers and travel subsidies depending on the student's location.

BEST PAPER INDUSTRIAL TRACK AWARD Authors no more than 35 years old will be eligible for a **special Best Paper competition** to be held in each of the **three Industrial Track topics**. **BEST PAPER INDUSTRIAL TRACK AWARD**

Conference topics include, but are not necessarily limited to:

FUNDAMENTALS	MEASUREMENT SYSTEMS	SIGNAL AND IMAGE PROCESSING
Advanced metrology	A/D & D/A converters	Cognitive informatics
Education and e-learning	Automated tests & diagnostics	Data pre- & post-processing
Measurement uncertainty	Calibration & self-calibration	Image processing & pattern recognition
Modeling of signals and systems	Condition & state monitoring	Inverse problems
Quantities, units & standards	Distributed measurement systems	Measurement data management
	Instrumentation for harsh environments	Sensor fusion
SENSORS AND TRANSDUCERS	Instrumentation for mobile use	Signal detection & classification
Chemical & biological sensors	Systems engineering	Signal reconstruction
Electrical & power measurements	Virtual measurement systems	
Energy harvesting		**INDUSTRIAL APPLICATIONS**
Optical sensing	**MEASUREMENT APPLICATIONS**	Chemical and biological measurements
Sensor array processing	Applied spectroscopy	Combustion process sensing & instrumentation
Smart sensors	Automotive & transportation	Energy efficiency & renewables
Wireless sensors & sensor networks	Avionics & aerospace	Fault tolerant sensor systems
	Biomedical monitoring	Industrial process tomography
MEASUREMENTS OF PHYSICAL QUANTITIES	Electric drive train instrumentation	Material analysis
Dielectric & magnetic measurements	Environmental monitoring	Multiphase flow measurement
Mass & density measurements	Radiation instrumentation & sensing	Oil field sensing & drilling instrumentation
Mechanical measurements	Remote sensing	Plant optimization
Moisture & humidity measurements	RF, microwave & capacitive sensing	Power-train testing
Properties of liquids	Robotics and HMI	Process instrumentation
Temperature measurements	Security & biometrics	Quality assurance & authentication
	Ships & marine technology	Sustainable propulsion technologies
	Telecommunications	

Prospective authors are invited to submit extended abstracts (3-4 pages) via the I²MTC conference website (http://imtc.ieee-ims.org/). The abstract should report on original research results of theoretical or applied nature and should explain the significance of the contribution to the corresponding research field. The manuscripts must be prepared according to the abstract preparation guidelines provided on the I²MTC website.

The extended abstracts will be reviewed by the Technical Program Committee. All papers presented at the conference will be published in the **Conference Proceedings** and via **IEEE Xplore**. Important deadlines are:

- **November 30, 2011** – Deadline for submission of extended abstracts
- **January 15, 2012** – Notification of authors of paper acceptance/rejection
- **March 11, 2012** – Deadline for submission of camera-ready papers

I²MTC
International Instrumentation and Measurement Technology Conference

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