

ICUMT 2011

3rd International Congress on Ultra Modern Telecommunications and Control Systems

General Chairs

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Yan Zhang, Simula Research Lab (NO)

Control Systems, Automation and Robotics Conference Chairs

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Péter Nagy, Scientific Association for Infocommunication (HU)
Yang Xiao, The University of Alabama (US)

Local Organizing Committee

Tibor Cinkler, BME (HU)
Nándor Mátrai, Asszisztencia Congress Bureau (HU)
Péter Nagy, Scientific Association for Infocommunication (HU)
Kinga Palszabo, Asszisztencia Congress Bureau (HU)

Important dates

Paper submission: **June 15, 2011**
 Acceptance notification: **August 5, 2011**
 Camera ready: **September 1, 2011**

Contact info@icumt.org

Call for Papers

ICUMT 2011

3rd International Congress on Ultra Modern Telecommunications and Control Systems

October 5-7, 2011, Budapest, Hungary

<http://www.icumt.org/>

Organized by



TAMPERE UNIVERSITY OF TECHNOLOGY



ICUMT is an annual international congress providing an open forum for researchers, engineers, network planners and service providers targeted on newly emerging algorithms, systems, standards, services, and applications bringing together leading international players in telecommunications, control systems, automation and robotics. The event is positioned as a leading international annual congress for presentation of original and fundamental research and engineering results.

Following the success of the first two events that took place in St. Petersburg (2009) and in Moscow (2010), each time attracting 200-300 participants from both academia and industry, ICUMT 2011 is a three-days event consisting of two tracks: on telecommunications (ICUMT-T), and control systems (ICUMT-CS), accordingly.

Topics of interest include but are not limited to:

Telecommunications Track (ICUMT-T)

- Next Generation Wireless Systems and Services
- Wireless Access Technologies and related systems and protocols
- Green Communications
- Low-layer Wireless technologies
- Information and coding theory
- Digital Broadcasting Technologies and Services
- Pervasive computing and smart environment
- Intelligent transportation systems (ITS) and vehicular ad-hoc networks (VANETs)
- P2P technologies
- Social Networks
- e-Commerce, Mobile Commerce, e-Government, e-Learning and e-Health
- General IP-based wired and wireless networking issues (including routing, e2e QoS, performance evaluation, transport layer optimization etc.)
- Location techniques and location-based services LBS
- Broadband Satellite and HAPS (High Altitude Platform Station) Technologies
- Information Security Technologies
- Web Technologies
- Multimedia & Internet Systems, Services and Standards
- Mobile Internet, Internet Telephony (VoIP, MoIP) and IPTV
- Network Management, Operation and Maintenance
- Optical Networking Technologies and Applications
- Open Programmable Networks and Active Networks
- Communication Network Topology and Planning
- Systems & Software Engineering Aspects
- GRID, Distributed Computing Technologies and Services
- IT Services Technologies

Control Systems Track (ICUMT-CS)

Control Systems:

- Adaptive control
- Robust control
- Process control
- Complex systems
- Mechatronic systems
- Co-operative control
- Identification and estimation
- Nonlinear systems
- Intelligent systems
- Hybrid systems
- Networked control systems
- Neural networks
- Fuzzy systems
- Genetic algorithms
- Evolutionary computation and control
- Precision motion control
- Control applications
- Control engineering education

Robotics and Automation:

- Robot design, development and control
- Human-robots interfaces
- Mobile robots and autonomous systems
- Human augmentation and shared control

- Space and underwater robot
- Telerobotics and Teleoperation
- Industrial networks and automation
- Intelligent warehouses
- Modeling, simulation and architectures
- Vision, recognition and reconstruction
- Virtual Reality
- Control and supervision systems
- Instrumentation systems
- Biomedical instrumentation and applications
- Web-based control
- Autonomous agents
- Petri nets

The authors are encouraged to submit full papers describing original, previously unpublished, complete research, not currently under review by another conference or journal, addressing state-of-the-art research and development in all areas of computer networking and data communications.

Papers must be submitted electronically via **EDAS** in double column IEEE format. All papers will be reviewed. Accepted papers will appear in the conference proceedings published in **IEEE Xplore** (confirmed).

Authors of selected outstanding papers will be invited to submit extended versions of their papers for consideration of publication in a **journal special issue**.

