IEEE-ICIT'12

International Conference on Industrial Technology

19-21 March 2012
Athens - Greece
Sponsor: IEEE Industrial Electronics Society

Call For Papers

Invitation to Participate in an Intellectually Stimulating Conference and experience the Greek Traditional Culture

Submission Schedule:

Deadline for submission of Special Session Proposals : 7 September 2011
Deadline for submission of full paper: 20 October 2011
Notification of acceptance with electronic publication instruction: 30 November 2011
Deadline for final manuscript: 18 December 2011

FOR FURTHER INFORMATION VISIT WWW.ISI.GR/ICIT12

ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ UNIVERSITY OF PATRAS

i.S.i. Industrial Systems Institute

1951-2011 IES 60th anniversary

IEEE Advancing Technology for Humanity

IEEE-ICIT'12 GREECE

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The purpose of the conference is to provide a forum for presentation and discussion of emerging industrial technology. Also, it serves as a conduit for channelling advanced technology to the regional industry. It brings together researchers, from industry and academia, active in industrial technological fields to discuss current developments and future perspectives.

Therefore, the topics of this conference include, but are not limited to:

Control Systems and Computational Intelligence
Chairs: Christos Douligeris, Greece; Farhat Fnaiech, Tunisia; George Halikias, UK
Advanced control methods, computer and microprocessor-based control, robust control estimation and identification techniques, control design and applications, non-linear control systems, modeling and simulation neural networks, control systems verification and industrial networked control, industrial applications of neural networks, fuzzy algorithms, adaptive and nonlinear systems fuzzy systems, and genetic algorithms.

Factory Automation & Industrial Informatics
Chairs: Athanasios Kalogeras, Greece; Gianluca Cena, Italy; Stamatis Karnouskos, Germany
Factory communications, flexible manufacturing systems, factory/industry/process automation, industrial agents, integrated systems and processes, horizontal and vertical factory integration, real-time distributed collaborative industrial systems, building automation process control, security and safety, infrastructures for industrial informatics, portable electronics, human-machine interfaces, industrial vision.

Robotics and Mechatronics
Chairs: Antonios Tzes, Greece; Georgios Nikolakopoulos, Sweeden
Mechatronics, robotics, mobile robotics/autonomous vehicles, tele-robotics and tele-operation, humanoid robots, multi-robot systems, intelligent transportation, distributed collaborative systems, security & safety, sensors and actuators, MEMS, robotics and automation in mining systems, other applications.

Embedded and Cyberphysical Systems in industrial applications
Chairs: Christos Koulamas, Greece; Joerg Henkel, Germany; Oliver Niggemann, Germany
Real-time distributed embedded systems, real-time resource management and scheduling, operating system and middleware support for real-time embedded systems, security, dependability and reliability for real-time embedded systems, technologies for system design, testing and validation, heterogeneous system composition, methodologies for the design of Cyber-Physical Systems (CPS) as extensions of the embedded and critical systems, adaptability, autonomy, efficiency, functionality, reliability, safety, and usability, CPS applications, like aviation systems, critical infrastructure -power, water-, distributed robotics, military systems, smart structures, traffic control and safety, advanced automotive systems, energy conservation, environmental control, etc.

ICT for Smart grids
Chairs: Efthymios Housos, Greece; Sotirios Ziavras, USA
Efficient monitoring of Smart Grids, application of network management technology for efficient Smart Grid management, software architectures for Smart Grid management, energy consumption profiling automation, Energy production scheduling, smart Grid dimensioning, Smart Grid reliability and robustnessbusiness modeling and techno-economical studies to propose Smart Grid market models, management of plugin hybrid electric vehicles, home energy management.

Renewable Energy and Power Systems
Chairs: Josep Guerrero, Spain; Seddik Bacha, France
Power systems control/diagnostics, power electronics, energy management, energy conversion efficiency, renewable energy generation (wind, solar, wave energy systems, hydro and microhydro), distributed power generation with integrated renewable energy sources, fuel cells in power systems, micro grids, grid connection of renewable energy systems, energy storage technologies for power systems, HVDC, FACTS.

Electrical Machines and Drives
Chairs: Babak Fahimi, USA; Chandan Chakraborty, India; João Martins, Portugal
AC/DC motor drives, observers and sensorless methods, drive control and applications, electrical machines design and modeling, thermal, noise and vibration issues in electrical machines, testing and diagnostics, estimation and identification techniques, motion control, adjustable speed drive application to traction ship propulsion and other applications.

Sensors, Instrumentation and Signal Processing
Chairs: Artur Krukowski, Greece; Kostas Berberidis, Greece; Koushik Maharatna, UK
Wireless Sensor Networks for smart manufacturing, environment monitoring, emergency response, critical infrastructure protection, intelligent transportation etc., FPGA and DSP based digital control implementation, signal processing, audio, image and video processing technology, communications radar.

Keynote Speakers: (TBA)

Special Sessions: The conference will include Special Sessions on highly specialised topic areas, within the scope of the conference and its theme. Special Sessions are organised at the initiative of one or more individuals, who must adhere to the specific procedures published at the conference website.

Working Language: English

Pre- and post-conference tours: (TBA)

Prospective authors are invited to submit full papers (double column, six pages maximum) in English using the online paper submission system located at conference website www.isi.gr/icit12.

Accepted papers will be published in an IEEE proceedings volume and will be included in IEEExplore and indexed by EI Compendex. In addition, selected papers will be invited for publication in the IEEE Transaction on Industrial Electronics.

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