



# ECTI-CON 2012



**Courtyard by Marriot Hua Hin, Cha Am Beach, Thailand**

**May 16-18, 2012**



ECTI-CON 2012 is the ninth annual international conference organized by Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI) Association, Thailand. The conference aims to be an international forum for presentation of technological advances and research results in the field of electrical engineering, electronics, computer, telecommunications, and information technology. Accepted papers will be published in the Proceedings of ECTI-CON 2012 and will be available via IEEE Xplore. Acceptance will be based on quality, relevance, and originality.



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#### Call for Contributed Papers

The main theme of this year ECTI-CON will be "Green Technology". In addition to the regular technical session, authors are invited to submit papers reporting results addressing the issue of sustainable development of environmental-friendly technology, impact of engineering on environment, effective use of technology for environment and other issue related to environment awareness.

*The program of ECTI-CON 2012 will consist of plenary sessions, invited sessions, and regular technical sessions. Topics of interest for submission include, but are not restricted to:*

**Area 1) Device, Circuits and Systems:** Semiconductor Devices, Analog Circuits, Digital Circuits, Mixed Signal Circuits, Nonlinear Circuits and Systems, Sensing and Sensor Networks, Filters and Data Conversion Circuits, RF and Wireless Circuits, Photonic and Optoelectronic Circuits, Low Power Design and VLSI Physical Design, Biomedical Circuits, Assembly and Packaging Technologies, Test and Reliability, Advanced Technologies (i.e. MEMS and Nano-electronic Devices, Metamaterials);

**Area 2) Computers and Information Technology:** Computer Architecture, Computational Biology and Bioinformatics, Knowledge and Data Engineering, Learning Technologies, Multimedia Services and Technologies, Mobile Computing, Parallel/Distributed Computing and Grid Computing, Pattern Analysis and Machine Intelligence, Software Engineering, Visualization and Computer Graphics;

**Area 3) Communication Systems:** Communication Theory and Information Theory, Antenna and Propagation, Microwave Theory and Techniques, Modulation, Coding, and Channel Analysis, Networks Design, Network Protocols, and Networks Management, Optical Communications, Wireless/Mobile Communications & Technologies;

**Area 4) Controls:** Control Theory and Applications, Adaptive and Learning Control System, Fuzzy and Neural Control, Mechatronics, Manufacturing Control Systems and Applications, Process Control Systems, Robotics and Automation;

**Area 5) Electrical Power Systems:** Power Engineering and Power Systems, Electromagnetic Compatibility, Energy Conversion, High Voltage Engineering and Insulation, Power Delivery, Power Electronics, Illumination;

**Area 6) Signal Processing:** Signal Processing Theory, Digital Signal Processing Algorithms, Digital Filter Design & Implementation, Array Processing, Adaptive Signal Processing, Audio, Speech, and Language Processing, Image Processing, Video Processing, Medical Signal Processing, Medical Imaging;

**Area 7) Other Related Fields:** Hard disk Drive Technologies, Intelligent Transportation Systems, Agritrionics, Security, Embedded Systems, ECTI Educations, ECTI Policy and Law, ECTI Management, etc.

#### Paper Submission

- Prospective authors are invited to submit original full papers without author's names and affiliations, in English, of not more than four (4) pages in standard IEEE two-column format only, reporting their original work and results, applications, and/or implementation in one or more of the listed topics.
- Papers must be submitted via the Internet through the official conference website (<http://www.ecticon2012.cpe.kmutt.ac.th>).
- At least one author of each accepted paper MUST register and present paper in the conference in order for the paper to be included in the program, and available through IEEE Xplore.

#### Important Dates

- Full paper submission due date: January 15, 2012
- Notification of acceptance: March 15, 2012
- Camera-ready paper submission: April 2, 2012
- Conference advance registration: April 2, 2012
- Conference dates: May 16-18, 2012

Selected papers will be considered for publication in the special section of the ECTI Transactions. For further information: <http://www.ecti-thailand.org>

#### For more information

Websites: <http://www.ecticon2012.cpe.kmutt.ac.th>

<http://www.ecti-thailand.org>

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