Sixth International Conference on Industrial and Information Systems (ICIIS2011)
The Sixth International Conference on Industrial and Information Systems (ICIIS2011)

Date: 16\textsuperscript{th} – 19\textsuperscript{th} August, 2011

Venue: Faculty of Engineering, University of Peradeniya, Sri Lanka

The Sixth International Conference on Industrial and Information Systems was held successful in the Faculty of Engineering, University of Peradeniya, Sri Lanka from 16\textsuperscript{th} - 31\textsuperscript{st} August, 2011.

The conference theme ‘Greener world through Smart Communication’ was capable to gather many international and local participants to discuss their experiences and concepts to move towards a greener world with the vision 'To promote innovative research for the development of tomorrow's industry'

The mission of the conference was to “To bring innovative academics and industrial experts to a common forum in order to facilitate constructive dialogues based on theoretical concepts and practical ideas in the field of Electrical, Electronics and Information Engineering”.
Plenary Session

- Plenary session on “Frontiers in Electronics and Telecommunications” at the Faculty of Engineering, University of Peradeniya.

  Session 1: Electronics Systems for Extending Product Life.
  
  *Professor Alan Purvis, Durham University, UK*

  Session 2: Radiobots- Towards Self-learning Autonomous Cognitive Radios
  
  *Professor Sudharman K. Jayaweera, University of New Mexico, USA*

  Session 3: Parametric Resonance & Oscillatory Stabilization with Applications to MEMS Comb Drives
  
  *Professor Jordan Berg, Texas Tech University, USA*

- Plenary session on “Greener World through Smart Power Technologies” at the BMICH, Colombo.

  Session 1: Technical Challenges Associated with the Implementation of Smart Grids-Japanese Perspective
  
  *Professor Akihiko Yokoyama, University of Tokyo, Japan*
Session 2: Role of power electronic in future power systems

Professor S. Tennakoon, University of Staffordshire, UK

Session 3: Power Plant for Telecommunication

Professor N K Kishore, IIT Kharagpur, India

Session 4: ICT Opportunities in disrupted Energy markets

Mr. Kabilan T., Nokia Siemens Networks, India
Keynote Presentations

(How) Can Programmers Conquer the Multicore Menace?
Prof. Saman Amarasinghe

The Future Needs of Security and Reliability in Embedded Systems
Prof. Sri Parameswaran

The Future Needs of Security and Reliability in Embedded Systems
Dr. Mathini Sellathurai

Perspectives on Future Internet Design
Prof. George N. Rouskas
Pre Conference workshops

1. Next Generation Power Systems (SMART GRIDS)
   Resource Persons: Dr. Carlos E. Ugalde-Loo
   Dr. Dharshana Muthumuni
   Kamalanath Samarakoon
   Dr. A. Atputharajah

2. Current status of LTE and WiMax Technologies
   Resource Persons: Mr. Priyanka Undugodage
   Mr. V.K. Balasudaram
   Chandika Wavegedara

3. Medical imaging and instrumentation
   Resource Persons: Prof. Asiri Nanayakkara
   Prof. Vajira Weerasinghe
   Dr. Janaka Wijayakulasooriya
   Dr. Lilantha Samaranayake
   Dr. Ruwan D. Ranaweera

4. V2D and 3D Video Quality Assessment
   Resource Persons: Dr. W.A.C. Fernando
5. Industrial Mobile Robots

Resource Persons: Jordan M. Berg
Dr. Lilantha Samaranayake
Dr. Dhammika Elkaduwe
Dr. Sanjeeva Maithripala

6. Rapid design of Embedded Systems

Resource Persons: Sri Parameswaran
Ruwan Jayanetti
Dhammika Elkaduwe
Jude Angelo Ambrose

**Areas Covered in the conference**

Papers under six major topics were invited for the conference.

i. Communication and Information
ii. Computers and Embedded Systems
iii. Electronics and Instrumentation
iv. Image and Signal Processing
v. Power, Energy and High Voltage Engineering
vi. Robotics, Control and Automation

**Conference Statistics**

Researchers from 16 countries submitted 182 papers for the conference. Using a comprehensive review process 124 outstanding papers in each category was selected.
<table>
<thead>
<tr>
<th>Category</th>
<th>Submitted</th>
<th>Accepted</th>
<th>Acceptance %</th>
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<tr>
<td>Communication and Information</td>
<td>46</td>
<td>36</td>
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<tr>
<td>Computers and Embedded Systems</td>
<td>37</td>
<td>21</td>
<td>56.8</td>
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<td>Electronics and Instrumentation</td>
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<td>5</td>
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<tr>
<td>Image and Signal Processing</td>
<td>22</td>
<td>14</td>
<td>63.6</td>
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<tr>
<td>Power, Energy and High Voltage Engineering</td>
<td>42</td>
<td>34</td>
<td>81</td>
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<tr>
<td>Robotics, Control and Automation</td>
<td>19</td>
<td>14</td>
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<tr>
<td>Overall</td>
<td>182</td>
<td>124</td>
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<tr>
<th>Country</th>
<th>No. of Accepted papers</th>
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<tr>
<td>Sri Lanka</td>
<td>63</td>
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<td>India</td>
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