Sixth International Conference on Industrial and
Information Systems (ICIIS2011)

THE SIXTH INTERNATIONAL CONFERENCE ON INDUSTRIAL AND INFORMATION SYSTEMS (ICIIS2011)

Date: 16th – 19th 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 16th -31st 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,

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

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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 Maithhripala

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.

Category	Submitted	Accepted	Acceptance %
Communication and Information	46	36	78.3
Computers and Embedded Systems	37	21	56.8
Electronics and Instrumentation	16	5	31.2
Image and Signal Processing	22	14	63.6
Power, Energy and High Voltage Engineering	42	34	81
Robotics, Control and Automation	19	14	73.7
Overall	182	124	68.1

Country	No. of Accepted papers
Sri Lanka	63
India	34
United Kingdom	6
Australia	4
Japan	3
P.R. China	2
Bangladesh	5
USA	1
Sweden	2
Canada	1
Malaysia	1
Hong Kong	1
Thailand	1