



## STUDENTS' CONFERENCE ON ENGINEERING AND SYSTEMS (SCES 2014)

May 28-30, 2014



Co-sponsored by  
IEEE Joint Societies  
Chapter of IE/PEL/CS

Organised by  
IEEE Student Branch  
Motilal Nehru National Institute of Technology Allahabad  
India

The 3<sup>rd</sup> Student Conference on Engineering and Systems was held on May 28, 2014 to May 30, 2014 under the joint aegis of Department of Electrical and Electronics Engineering. It was organized by IEEE Student Branch and MNNIT, Co-sponsored by leading professional bodies like IEEE Joint Society Chapter of Industrial Electronics, Power Electronics and Control System (IE/PEL/CS) under IEEE Uttar Pradesh Section and Technical Education Quality Improvement Program-II (TEQIP-II).

### Conference Objective and Scope:

The objective of SCES-2014 was to encourage sharing research and development works describing original work on theories, methodologies, abstractions, algorithms, industry applications and case studies with others. Conference aimed to enhance the health of the research enterprise, foster integrity in science and engineering and promote the researcher's understanding of science for the purpose of improving technology. These included advancement in methods of modeling, simulation, design and control of engineering systems, new technological development, advance devices, energy efficiency, system sciences, computational systems, etc. with the aim of promoting technological growth as per current needs.

The conference provided a common platform for the exchange of ideas, sharing of knowledge and experience among the participants and experts from academia and industries, to benefit the budding engineers and researchers. The Conference was third in sequel and aimed to motivate student scholars who are working in the area of engineering and systems. The conference was focused on the emerging areas in the field of Electrical & Power, Electronics & Communication, Computing Technology & Intelligent Systems, Mechanical Systems & Mechatronics, and Applied Sciences

### Activity:

The conference was a three day event and included 14 Parallel session for the papers presented under oral category. The oral category papers would be sent to IEEE Xplore for online accessibility. The sessions were chaired by experts from the respective areas. There were also 8 technical sessions of the papers under dialogue category. The papers accepted under dialogue category were meant to promote the students research on a common platform.

The conference honored the best paper awards to the authors from undergraduate (UG), postgraduate (PG) and Ph.D. categories as under:

Richa Negi  
Organizing Chair  
SCES-2014

#### UG/PG category-

- (i) Mr. V. Vinoth, IIT Indore
- (ii) Ms. Ekta Purwar, NIT Patna
- (iii) Mr. Gaurav Khanduri, MNNIT Allahabad
- (iv) Mr. Pawan Rathore, MANIT, Bhopal
- (v) Mr. Vishal Undre, SGGIET, Nanded
- (vi) Mr. Rahul Kant, NIT Kurushetra

#### Ph.D. category-

- (i) Mr. Vikas Sharma, MNNIT Allahabad

The Talks were delivered on following topics:

#### Plenary Talk on

- (i) "Some Perspectives on Optical Communication: Past, Present and Future" by Prof. P. Chakrabarti, MNNIT Allahabad

#### Invited talks on

- (ii) "Knowledge Management Applications on e-government Services" by Dr. Baisakhi Chakraborty, Nit Durgapur
- (iii) "A Broad Overview of State Estimation using Kalman Filtering" by Dr. Radhakant Padhi, IISC Bangalore
- (iv) "Stability of two-dimensional discrete systems: An overview" by Prof. Haranath Kar, MNNIT Allahabad
- (v) "Switch Mode Rectifiers and Applications" by Prof. R. K. Tripathi, MNNIT Allahabad

#### Tutorial on

- (i) "Artificial Neural Networks and Applications" by Dr. G.N. Pillai, IIT Roorkee
- (ii) "Smart Grids Challenge in India" by Dr. Yemula Pradeep Kumar, IIT Hyderabad

On the second day on the Conference, a cultural evening and conference dinner was organized.

#### **Report:-**

The Technical Program of the Conference included 1 Plenary Talk, 4 Invited Talks, 2 Tutorial sessions, 14 Oral sessions, and 8 Dialogue sessions. The Conference received 321 paper submissions, out of which 76 have been accepted and registered for presentation in Oral session. In addition, 43 papers have been accepted for presentation in Dialogue sessions so as to promote a vision of research activity in the early stage of student's scholars. Each submitted papers was carefully reviewed by Technical Program Committee and eminent experts working in academia and industry. A total of 401 reviews on the submitted papers were received, out of which 101 reviewers were from experts working outside India.

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SCBS-2014

**Outcome:-**

The Conference programme embraced high-quality original research papers in order to embark knowledge sharing and knowledge transfer for strengthening of scientific collaborations among the attendees. We believe that the Technical Program has provided all attendees an opportunity to enrich their knowledge and future interaction.

**Future Action Potential:-**

The Conference has inspired Engineering and Systems for Global Sustainability. Further it will encourage students and scholars to do better and healthy research with new innovative ideas.

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