



ETAERE-2016

1st Springer International Conference

on

Emerging Trends and Advances in Electrical Engineering and Renewable Energy

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Organized by: Department of Electrical and Electronics Engineering,
Sikkim Manipal Institute of Technology (SMIT)

Sikkim
17th – 18th Dec, 2016

ETAERE 2016

International conference

On

Emerging Trends and Advances in Electrical Engineering and Renewable Energy

Sikkim, 17th-18th December, 2016



Organized by: **Dept. of EEE**, Sikkim manipal institute of technology, sikkim

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ABOUT THE CONFERENCE

The **Sikkim Manipal Institute of Technology (SMIT)** is a constituent college of **Sikkim Manipal University**. Established in 1997, SMIT is part of the renowned Manipal Group that has made its mark in the field of education and health services in India and abroad. **SMIT ranked 1st** in the State of Sikkim (source: CSR-GHRDC Engineering Colleges Survey, 2015).

International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEERE-2016) will be organized by the Department of Electrical and Electronics Engineering, Sikkim Manipal Institute of Technology, Majhitar, Sikkim during 17th – 18th Dec, 2016. The aim of the Conference is to provide a platform for Researchers, Engineers, Academicians and Industry Professionals to present their recent research works and to explore future trends in various areas of Engineering and Management. The conference also bring together both novice and experienced scientists and developers, to explore newer scopes, collect new ideas and establish new cooperation between research groups and exchange ideas, information, techniques and applications in the field of Electrical, Electronics and Renewable Energy.

ABOUT SMU and SMIT

The **Sikkim Manipal University** was established in 1995. It is the first government-private initiative in the region. SMU is recognized by the University Grants Commission and approved by the Government of India. It is the first ever Public Private Partnership (PPP) in the country for higher Education and Health Care services. The **Sikkim Manipal Institute of Technology (SMIT)** is a constituent college of Sikkim Manipal University. Established in 1997, SMIT is part of the renowned Manipal Group that

has made its mark in the field of education and health services in India and abroad. **SMIT ranked 1st** in the **State of Sikkim** (source: CSR-GHRDC Engineering Colleges Survey, 2015). The first view of SMIT is more than enough to inspire any one to be a part of this beautiful, resort like campus nestling on the banks of River Teesta in the verdant hills of East Sikkim. SMIT enjoys approval by All India Council of Technical Education (AICTE) and University Grants Commission (UGC). SMIT had the distinction of prestigious accreditation for engineering disciplines by NBA/ACCR-860/06 dated 22 January 2008. In addition, it also holds ISO 9001 accreditation vide NS-EN ISO 9001:2008 for all the courses. Now, the Institute is progressing for NAAC soon.

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Dr. Swagatam Das, ISI, Kolkata

Dr. Bhabani Sankar Swain, Kookmin University, South Korea

Dr. Abhijit Chakrabarti, IEST, Shibpur

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Call for Papers

Original Contributions are solicited on topics covered under broad areas such as (but not limited to):

SMART GRID, RENEWABLE ENERGY AND MANAGEMENT:

- Architectures for Smart Grids
- Load Balancing in Smart Grids
- Energy Management Systems (EMS)
- Economic Models of Energy Efficiency
- Energy Monitoring
- Renewable Energy Resources
- Greener Systems Planning and Design
- Virtualization for Reducing Power Consumption
- Evolutionary Algorithms in Energy Applications
- Scheduling and Switching Power Supplies
- Energy Profiling and Measurement
- Harvesting Energy
- Energy-Aware Process Optimisation
- Optimization Techniques for Efficient Energy Consumption
- Microgeneration
- Smart Energy Storage
- Wireless Systems and Networks
- Algorithms for Reduced Power, Energy and Heat
- Green Communications Architectures and Frameworks
- Qos and Green Computing
- Integration of Smart Appliances
- Embedded Sensor Networks
- Smart Homes (Domotics)
- Smart Power systems
- Green Computing and Education
- Case Studies on Green Computing and Communications
- Interoperability

- Energy Efficient Network Hardware
- Energy-Efficient Communication Protocols
- Green Software Engineering Methodologies and Tools
- Virtualization Impact for Green Computing
- Green Computing Models, Methodologies and Paradigms
- Energy-smart industrial architecture
- Power Quality and Utility Applications
- Fault Detection and Management
- Network Management, Control and Engineering for QOS

SYSTEMS, CONTROL AND AUTOMATIONS:

- Control of Linear and Nonlinear Systems,
- Innovations in Pharmaceutical Packaging
- Automated Analytical Laboratory Instruments
- Sensor less Control, Signal Processing
- Motion Control, Petri Nets
- Intelligent Systems
- Power Electronics
- Electrical Drives
- Neural Networks Control Systems
- Machine Learning in Control Applications
- Stochastic Control, Knowledge-based Systems Applications
- Expert Systems,
- Adaptive Control
- Fuzzy Systems
- Chaotic Systems
- Fault Diagnosis
- Fault Tolerant Control
- Predictive Control
- Real-time Control
- Robotics

- Dynamical systems,
- Automatic Identification Systems,
- Electric Circuits and Networks,
- Biomedical Instrumentation

ELECTRONICS, COMMUNICATION AND COMPUTING:

- Optoelectronics,
- Nano-electronics,
- Measurements and Data Acquisition,
- Computer Aided Design
- Computer Aided Manufacturing
- Semiconductor Device Modelling
- Computational Electromagnetic
- Finite and Boundary Element Techniques
- Monte-Carlo Simulations
- Multi-scale Modeling
- Materials for Electronics
- Computer Aided Education and Training
- Wireless Communications
- Optical Communications
- Radio Frequency Identification and Near Field Communications
- Automatic Position Reporting System
- VoIP Protocols and Services
- Network Security
- Pattern Recognition
- Distributed Systems
- Cloud Computing
- Artificial Intelligence
- Adaptive Systems

Important Dates

Early Bird Round Paper Submission

It is mandatory that at least one author of each accepted paper register for the conference paper

Full Length Paper Submission	15th August, 2016
Acceptance Notification	20th October, 2016
Registration and Camera Ready	15th November, 2016
Conference Date	17th - 18th December, 2016

Paper Submission

Paper should be in the format strictly specified on the conference website. Only the selected papers will get the intimation and also will be accepted for publication. Kindly do not submit the paper multiple times.

Submit your Article/Review/Research Paper to etaeere@gmail.com

Registration Fee

Early Bird Round	
Category: Authors	Registration Fee
Research Scholar/Students	INR 4,000
Academician	INR 5,500
Industrial Participant	INR 7,000
Co-Author Attending	INR 2,000
Foreign Delegates	USD 300
Foreign Student	USD 200

Publication

1. All the selected papers will be considered for publication in the Springer (approved) *more details will be updated soon



2. Moreover, all accepted and registered papers will be published in Conference proceedings (Hard Copy) having ISBN Number.

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3. Selected Quality papers will be considered for publication in following Scopus indexed Journals:



Indian Journal of Science and Technology (SJR: 1.3)



International Journal of Engineering and Technology (SJR:0.18)