



2017 IEEE International (Biennial) Conference on

Technological Advancements in Power & Energy



"Exploring Energy Solutions for an Intelligent Power Grid"

December 21st to 23rd, 2017



KEY DATES

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|----------------------------|----------------------|
| Full paper submission | :21 August 2017 |
| Notification of Acceptance | :21 September 2017 |
| Camera Ready paper | :21 October 2017 |
| Conference | :21-23 December 2017 |

About Amrita University

Amrita University is a multi-campus, multi-disciplinary research institution, ranked as the No. 1 Private University in India by the NIRF (National Institutional Ranking Framework) Rankings 2017 and one of the top 10 in the country overall. It has also been ranked No. 1 by the Times Higher Education and QS World Rankings and is accredited with an 'A' grade by NAAC.

The University is spread across five campuses in three states of India - Kerala, Tamil Nadu, and Karnataka, with the University headquarters at Coimbatore, Tamil Nadu. The University continuously collaborates with top US institutions including Ivy League universities and top European universities for regular student exchange programs and has emerged as one of the fastest growing institutions of higher learning in India. The university was founded by Satguru Sri Mata Amritanandamayi Devi (AMMA), who is a world-renowned Humanitarian leader and the Chancellor of the University and it continues to grow from strength to strength under her guidance. Today, Amrita University has a student population of over 16000 + and a faculty strength of 2000+, including over 300+ faculty members with Ph.D. qualification. Amrita School of Engineering aims to make its programs the best in the country based on a focused approach with respect to the critical areas of curriculum, teaching-learning, student support, infrastructure and research.

Department Profile

The Department of Electrical & Electronics Engineering, Amritapuri Campus is committed to mould the students for global requirements by providing quality education to meet the needs of the industry. The department has a fine blend of faculty expertise in Power & Energy Systems, Control & Instrumentation, Power Electronics & Drives and Microcontrollers & DSP. The department aims at being a world class centre in Electrical Engineering Education through excellent teaching, applied research and professional services for the benefit of the society. The department has well equipped state-of-art laboratories and research facilities. Research Thrust Areas are in Smart Grid Technologies, Power Quality Improvement, Unmanned Aerial Vehicles, Robotics, Renewable Energy Integration, Hybrid Electric Vehicles & Smart Parks with research funding from DST and SERC. The department focuses on overall development of its students, imparting knowledge and skills through projects, seminar presentations, association activities, internships and industrial visits. Value education and professional ethics are also an integral part of the curriculum. EEE department in Amritapuri campus started functioning from 2005 onwards with B. Tech degree course in Electrical & Electronics Engineering. The department started its first M.Tech programme in Power & Energy in 2011 and later M.Tech programme in Control and Instrumentation in 2014.

About TAP ENERGY

2017 IEEE International (biennial) Conference on "Technological Advancements in Power & Energy- TAP Energy 2017", organized by the Department of Electrical & Electronics Engineering, Amritapuri campus will be held from 21st to 23rd December 2017. The objective of the conference is to provide a platform for researchers, engineers, academicians, as well as industrial experts from all over the world to explore their research results and ideas. The previous edition of 2015 TAP Energy was well received and appreciated by one and all. This conference provides opportunities for the delegates to exchange new ideas, establish research relations and global partnership for future collaborations.

Call for papers

TAP Energy 2017 invites full length original research contributions from engineering students, research scholars, academic institutions, R&D organizations and industries across the world. Your research contributions/review articles not exceeding six pages and formatted as per IEEE template shall be submitted in electronic doc or pdf format through the easy chair conferences management system.
<https://easychair.org/conferences/?conf=tapenergy2017>

1 Track

Power and Energy

- Power Generation, Transmission and Distribution
- Power Electronics and Drives
- Wireless Power Transfer and Energy Harvesting
- Renewable Energy Technologies
- Distribution Automation and SCADA
- HVDC, FACTS and UHVAC
- Smart Grid Technologies
- Plug in/ Hybrid Vehicles / Smart Parks
- Power System Fault Diagnosis and Protection
- Power Quality and Reliability
- Thermal Energy and Power Plant Engineering
- Self-aware, Self-configuring and Self-healing Energy Systems

2 Track

Control and Automation

- Control Theory and Applications
- Robotics
- Aerospace Technology
- Biomedical Instrumentation
- Robust Control
- Intelligent Control
- Instrumentation and Automation
- Evolutionary Computation and Optimization
- Optimal and Adaptive Control
- Industrial Process Control
- Automotive Engineering

3

Track

Green Technologies

- Renewable Energy Systems
- Sustainable Smart Cities
- Bio Energy Conversion
- Nanotechnology
- Energy Efficient Building and Green Design
- Advanced Energy Materials
- Waste to Energy(WtE)
- Energy Storage Technologies
- Bio Process Engineering
- Bio Sensors and Bio Electronics
- Zero Net Energy Buildings/ Cities(ZNEB)
- Smart Energy solution for Combating Global Warming

4

Track

Computational Technologies

- IoT for Smart Energy Environment
- Networking and Data Mining in Smartgrids
- Computational Intelligence
- Bigdata Analytics
- Mobile data/ Wireless data communication
- Information theory and Coding Systems
- Smart Grid Security and Privacy issues
- Software tools for Smart Energy Networks

5

Track

Smart Markets, Trading and Business Models

- Energy Conservation and Management
- Power System Market Operations
- Energy Pricing and Forecasting
- Business models and Electronics Marketplace for Smartgrids
- Management of Distributed Energy Generation and Storage
- Energy Management in Wearable systems
- Economic modelling of Energy Technologies
- Energy Management, Economics and Policy

Registration

The conference registration covers conference proceedings, conference kit, admission to all workshops, Banquet Dinner and Food Coupons. The registration fee does not cover transportation and accommodation. Limited accommodation is available on chargeable basis.

Mode of payment:

DD should be drawn in favour of 'Amrita Consultancy' payable at Kollam.

Dates to Remember

Full paper submission	:21/08/2017
Acceptance notification	:21/09/2017
Camera ready paper submission	:21/10/2017
Early bird registration	:21/10/2017 to 30/10/2017
Full registration	:21/10/2017 to 30/10/2017

For more details visit :
<http://tapenergy.amrita.ac.in/>

Our Patrons

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TAP
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Computation
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