

CFP: IEEE TENCON 2019 Special Session on:

“MACHINE LEARNING FOR POWER SYSTEMS AND POWER ELECTRONICS” (17-19 October 2019)

<http://www.tencon2019.org/>

In the last few years, monitoring, control and operation of power systems as well as design and deployment of power electronics systems are moving towards smart technologies. The need for leveraging recent advances in Artificial Intelligence (AI) and Machine Learning (ML) for tackling problems in these areas is now widely acknowledged. Many AI/ML techniques such as expert systems and artificial neural networks have been explored for applications in Power Systems and Power Electronics for many years. With the recent developments such as deep learning and cloud computing, training efficiency of neural networks has seen a quantum jump. Recently, many research groups have started applying deep learning to solve problems of interest in the operation, monitoring and control of power systems and power electronics appliances. There are many open questions on how to apply deep learning algorithm in power systems and power electronics applications. This special session will provide a platform for researchers working in this area to present their work and interact with each other.

We are soliciting papers in the application of machine learning for

- Renewable Forecast: wind speed/power/solar prediction
- Control of micro grid
- Supply-demand interaction
- smart management and monitoring of power systems
- Intelligent home energy systems
- AGC problems of interconnected power grids
- Power system security and stability assignment
- Load and energy consumption forecasting
- Control of intelligent transmission systems
- Planning and Control of distribution systems
- Smart Meter Data Classification
- Voltage and reactive power control (VQC)
- Economic risk dispatching
- Power system transient stability assessment
- Modeling of power converters
- Intelligent control

- Power conversion systems for renewable energy applications

Special Session Organisers

1. Prof. G. N. Pillai, Professor, IIT, Roorkee
2. Prof. Gurunath Gurralla, Assistant Professor, IISc, Bangalore
3. Prof. T. P. Imthias Ahamed, Professor, TKMCE, Kollam
4. Prof. Shihabudeen K. V, Assistant Professor, TKMCE, Kollam
5. Prof. P. S. Sastry, Professor, IISc, Bangalore

Paper Submission Guide lines

Prospective authors are requested to submit their papers in not more than 6 pages, prepared in the two column IEEE format, through the link provided in <http://www.tencon2019.org/>.

Papers for presentations should conform to the IEEE format and specifications. All submissions must be in English only. Authors are invited to submit full paper (Maximum 6 pages, double- column US letter size) as PDF using the IEEE templates. The IEEE paper template can be downloaded from the link given below. http://www.ieee.org/conferences_events/conferences/publishing/templates.html.

Important Dates

Submission Deadline: June 30, 2019

Paper Notification date: August 15, 2019

Camera-Ready: August 30, 2019

Please refer to <http://www.tencon2019.org/> for the latest information.