



## Call for Contributions

Energy systems today are increasingly featured by new elements with high level of uncertainty from either renewable resources or from the latency introduced from the communications system. The complexity involved with multiple energy sources and interaction for both energy and ICT networks has introduced high level of difficulties for accurate modeling and thus, control and protection of the microgrid system. Conventional simulation based methods can be either computationally expensive or inaccurate due to modelling defects. With recent development in artificial intelligence (AI), especially on deep learning technologies and other data-based methodologies, new approaches for energy system operations and energy market opportunities have appeared. In this workshop, key issues, challenges and methodologies for new energy system and market operations will be considered for developing various adaptive control and protection schemes using AI and data driven techniques. Advanced data analytics and artificial intelligence for research, and case studies with real market data will be considered for analysis and implementation. This workshop provides an open forum for presentations in the field of Artificial intelligence Driven Adaptive Micro-grid Control and Protection Schemes including emerging technologies. One of the unique features of this symposium is to combine new academic research with state-of-the-art industrial data, necessary ingredients for significant advances in this field. All aspects of AI, micro-grid, protection, test, reliability, and availability are of interest. Topics include (but are not limited to) the following:

AI driven Grid Operation and Management

Computational Intelligence Applications, (ICT) in Micro-grid

Renewable Generation and Distributed Energy Resources Integration

Power Electronics and Control and Protection systems for Smart Grids

Emerging Technologies and End-user Systems

## AI driven Protection Schemes

Submission page:

<https://easychair.org/conferences/?conf=waiamp2019>

Publication:

Accepted papers will be published into conference proceedings by IEEE. The proceedings will be submitted to IEEE Xplore. Extended version will be considered for the upcoming book on Artificial intelligence Driven Adaptive Micro-grid Control & Protection Schemes published by Springer.

### Important Dates

Abstract submissions: July 30th

Full paper submissions: August 10<sup>th</sup>

Notification: August 12, 2019

Camera ready: September 9, 2019

For information Contact:

Dr. S. K. Parida/Dr Jimson Mathew  
Department of Electrical Engineering  
Indian Institute of Technology Patna  
Bihta, Patna – 801103

Email: [skparida@iitp.ac.in](mailto:skparida@iitp.ac.in)

Phone: [+91-6123028040](tel:+91-6123028040)