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Application of Soft Computing Techniques in Renewable Energy Integrated Systems

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Aims & Scope:

Soft computing techniques are important tools that significantly improve the performance of energy systems. These techniques are already playing a significant role in delivering computation solutions in science and engineering applications. Many soft computing techniques are suited to a wide variety of applications, for which the data and inputs that are worked on may be of varying levels of uncertainty and partial truths. Observing present scarcity of fossil fuel and emissions of greenhouse gases, electricity generated from renewable energy sources turns out to be the best alternative for generating the power. Various novel techniques are emerging to optimize the different factors in order to attain desired results for different types of power problems in such renewable energy integrated systems. Some aspects of problems like economic dispatch, automatic generation control, voltage level control, feeder restructuring, optimal power flow, power system protection, scheduling electric vehicle charging, control of FACTs devices, fault diagnosis, maximum power tracking, harmonic elimination, harmonic reduction, filter tuning, design of renewable energy systems, power quality control, etc. have been solved by these soft computing techniques.

The session aims at bringing the innovation/advancement in soft computing techniques to solve complex problems in renewable energy integrated systems. It will also provide a comprehensive solution to effectively solve the most critical electrical problems.

Subtopics:

Application of soft computing techniques in:

- Power quality control
- Power system protection
- Automatic generation control
- Optimal power flow
- Harmonic reduction/elimination
- Control of FACTs devices
- Design of renewable energy systems

- Scheduling electric vehicle charging
- Fault diagnosis
- Control of distributed energy systems
- Micro grid/Smart grid control

Technical Programme Committee(s):

- Dr. Prakash Kumar Ray, Associate Professor, CET Bhubaneswar
- Dr. B. Chitti Babu, Assistant Professor, IIITDM Kancheepuram
- Dr.Arun Kumar Verma, Assistant Professor, MNIT Jaipur
- Dr. P. Rangababu, Assistant Professor, NIT Meghalaya
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- Dr. N. K. Swami Naidu, Assistant Professor, IIT BHU
- Dr. S. Affijulla, Assistant Professor, NIT Meghalaya

Submission Procedure:

Researchers and practitioners are invited to submit papers through the below given easy chair link:
https://easychair.org/conferences/?conf=suscom2019.

Select the special session track from the listed track. All submissions must be original and may not be under review by another publication. The submitted papers will be reviewed on a double-blind and peer review basis.

Publications:

All registered and presented papers will be published in the ELSEVIER-SSRN Digital Library at https://hq.ssrn.com/conference=SUSCOM-2019. Extended versions of selected papers will be considered for the special issue of journals indexed in ESCI, Scopus, SCIE, DBLP, Web of Science, ACM, Compendex, INSPEC, Thomson Reuters, Cabell's Directories to name a few.

All inquiries should be directed to the attention of Session Chair/Co-Chair:

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