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Journal of Engineering

Special Issue on

Adaptive Power System Protection Schemes

CALL FOR PAPERS

Lower response time and higher accuracy are the most important desired factors in the operation of relays of power system protection. On the one hand, the classical methods and algorithms of relays cannot satisfy the desired protection levels as the power system gets bigger and more complicated; on the other hand, some other factors, like the application of different compensators like Flexible AC Transmission Systems (FACTS) and Fixed Series Capacitors (FSCs), combination of different types of power generation systems like fossil fueled power plants with renewable energy plants, and distributed generation, have forced a necessity for modifying the protection relays algorithms.

This journal investigates new proposed methods for improving power system protection in Smart Grids and generally contains the following items.

Potential topics include, but are not limited to:

- ▶ Engineering requirements in advanced protection of Smart Grids
- ▶ Engineering restrictions in using modified methods
- ▶ Use of Wide Area Measurement to improve the power system protection
- ▶ Adaptive protection and protection schemes
- ▶ Modeling of relays, relaying systems, and instrument transformers
- ▶ Fault detection and location based on Wide Area Measurement system
- ▶ System design, communication technology, and testing techniques
- ▶ Impact of FACTS controllers/wind powers/ FSCs on power system protection

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