

Resilience in Smart Grid Electrical Protection

Collection Editor: Salman Rezaei

Description

Electrical protection in smart grid is one of the main concerns due to consecutive switching of energy resources. In order to make a self-healing protection compatible with smart grid requirements it is necessary to establish a protection and control center comprising real time simulation, protection design and configuration and online setting adaptation of protective relays. Among this, adaptive algorithms to recognize and distinguish different kinds of abnormalities to control operation of protective relays are also seems to be necessary. The algorithms also communicate with protection simulation and design center to transfer the status and receive a response to make a correct decision to maintain stability and availability of power sources in smart grid.

About the Editor

Salman Rezaei received a B.Sc. in electrical engineering from Mehriz-Azad University, Mehriz, Yazd, Iran in 2010. He has been working in Kerman Combined Cycle Power Plant since 2005. He is an electrical engineer of technical office. His activities include protective relaying, testing electrical devices, generator transformer and protective relays, electrical studies and simulation of distributed resources and electrical projects.

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