

Intelligent Operation and Emergency Control of a Smart Grid with High Penetration of Renewable Energy Resources

Project Description

The project will explore new methodologies and technologies for operation of a smart grid with integration of renewable energy resources. The high penetration of renewable energy into the smart network demands for innovative and intelligent techniques to operate and control the grid in an effective manner. This research will develop intelligent control strategies through pattern recognition for reducing operational conflicts and provide solutions for the cohesive operation and integration of renewable energy resources in a smart-grid.

Biography of Dr Qais H. Alsafasfeh

Dr Qais Alsafasfeh is a 2012 Endeavour Research Fellowship holder who has completed his BSc in Electrical Engineering from Mutah University, Jordan in 2000, and MSc in electrical Power Engineering from Jordan University of Science and Technology in 2004. He was awarded his PhD from Western Michigan University, USA in 2010 on the topic, "Pattern Recognition for Fault Detection, Classification and Localization in Electric Power Systems". Currently he is working as an Assistance Professor and Chair of Electrical Engineering Department at Tafila Technical University, Jordan. Before joining the University, he worked as High voltage Substation Maintenance Engineer at National Electrical Power Company (NEPCO), Jordan from 2001 to 2004. His special fields of interests include power system planning, fault detection, pattern recognition, emergency restoration, intelligent control and nonlinear dynamic control.

UOW Mentor

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