Journal of Electrical and Computer Engineering

Special Issue on
Applications of Communication and Computing in Smart Grids Considering Renewable Energy Penetrations

CALL FOR PAPERS

The traditional power network is currently undergoing immense change due to recent climate concerns and depletion of fossil fuels. Thus, the penetration of renewable energy resources like wind, solar, biomass, tidal, and geothermal technologies into grid networks consisting of conventional fossil fuel powered plants is on the rise. However, due to the stochastic nature of the renewable energy sources, the power generation is uncertain and intermittent in nature. Consequently, the dynamics and stability of the grid network are highly affected during operations. It is therefore imperative to make the grid network smart, by employing a tenet approach to coordinate and control the grid system effectively through communication and run-time adaptive behavior.

This special issue will attract submissions that are aimed at designing and proffering solutions in the areas of communication and computing in smart grid networks, considering renewable energy penetrations. Original contributions and review articles which describe the current state of the art are welcomed.

Potential topics include but are not limited to the following:

- ▶ Artificial intelligence networks in smart grid operations
- ▶ Communication systems and smart grid operations
- ▶ Smart grid networks
- ▶ Renewable energy penetration in smart grid networks
- ▶ Effective smart grid energy management

Authors can submit their manuscripts through the Manuscript Tracking System at https://mts.hindawi.com/submit/journals/jece/power.systems/accsr/.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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