Special Issue

Smart Grids in Railway Power Systems

Message from the Guest Editor

Smart grids can be described as a trend for the modern power system to become increasingly integrated with modern data and communication based digital systems. Railway Power Systems represent one of the most sizeable loads on a national grid and as the technology matures, there is an opportunity to develop advanced power systems which improve both railway and national grid systems. The integration of renewable sources and energy storage, as well as the application of power electronics have the potential to completely transform railway power systems. Advanced control and protection systems also offer the potential to improve the performance of the system and lead to a more reliably railway. This Special Issue in Energies, will bring together the state-of-the art in smart grid technology as applied to railway power systems. A true smart grid will require advanced power system architectures which can provide bi-directional power flow, as well as facilitating multi-source power inputs. There will also be the requirement for new regulatory and economic approaches and full engagement with system users.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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