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Integration of Power Electronics in Power Systems

Guest Editor:

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Deadline for manuscript submissions:
closed (30 September 2022)

Message from the Guest Editor

This Special Issue is dedicated to the aspects related to the integration of power electronics in power systems, through studies, analysis, simulations, projects, experiments, and all other possible paths that can be followed to disclose the key points for the assessment of future power systems with power electronics. This Special Issue is the ideal place for works focusing on the dynamics of power systems and power electronics. Topics of particular interest are the representation of power systems with high share of power converters; investigation of system stability with time-domain methods (phasors, EMT) and other analytical methods (modal analysis, state-space models, transfer functions, impedance-based methods); control strategies for power converters; and conventional grid-following control and emerging grid-forming control structures. These topics can be addressed from different angles and perspectives, from more element-focused studies to more system-focused analyses; from large-scale power systems to microgrids and small isolated electrical networks. All papers addressing the integration of power electronics in power systems are welcome for consideration.

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Message from the Editor-in-Chief

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