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Integration of Electrical Vehicles and Renewable Energy Resources into Power Distribution Networks

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Message from the Guest Editors

This Special Issue focuses on recent advances in technology for EVs charging schemes that reduce the degradation of the EV batteries that support its use as ancillary service provider to the grid with the consideration of high penetration of RES. It includes, but is not limited to, the following topics:

- Power electronic converter for (DC) charging of EVs with bidirectional capability
- Investigation of the synergy between RES and EV charging demand
- Power management techniques for EV/RES systems to reduce grid congestion
- Intelligent systems for optimal sizing, location, and control of EVs as energy storage to enhance the voltage profile and relive grid loadings
- Charging electric vehicles from RES in microgrids

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Message from the Editor-in-Chief

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