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Design, Control, and Optimization of Powertrain for New Energy Vehicles

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Message from the Guest Editors

New energy vehicles (NEVs), including battery electric vehicles (BEVs), hybrid electric vehicles (HEVs), and fuel-cell electric vehicles (FCEVs), are the inevitable current trend of the automotive industry which aim to reduce carbon dioxide emissions and air pollution in cities. The powertrain, which includes energy storage systems, power machines, and transmission, has decisive influence on the dynamic and economic performance of these new energy vehicles. Systematic research into how to design, control, and optimize NEV powertrains is still crucial to improve their acceptance in the market. Therefore, it is necessary to explore the ideas, investigate the methodology and validate the technology related to designing, controlling, and optimizing NEV powertrains to improve their comprehensive performance. This Special Issue is aimed at providing an open platform to share the innovations, contributions and discussions surrounding the development of NEV powertrains.