

## Special Issue

# Drive System and Control Strategy of Electric Vehicle

### Message from the Guest Editors

In recent years, electromobility has rapidly grown, with electric propulsion systems becoming common in vehicles, ships, and even aircraft. This shift is driven by advantages like fast response times, compact structures, high speeds, and torque, supported by regulatory incentives in many countries. The electric drive comprises several components, primarily an electric machine powered by a power electronic converter. Optimal design of these parts presents significant scientific and engineering challenges. Proper connection to the executive components via reducers or gears is essential. The system is powered by an internal battery, which introduces further challenges. Each component is managed by specific control algorithms, coordinated by a master algorithm. Topics of interest include:

- Electrical machine design
- Design of power electronic converters
- Gearbox and speed reducer design
- Control issues for electric machines and converters
- Sensor design for electromobility
- Torsional vibration damping
- Battery management
- Master control system design
- Safety in electromobility

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### Deadline for manuscript submissions

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