

Call for Papers

Special Issue on Electric Drive System for Electric Vehicles

Electric drive system, as a vital part of electric vehicles, is undergoing a fast transition towards high speed, high efficiency, high power density and high integration. Above-introduced targets promote the development of many novel technologies, such as high-speed motor, traction drive reducer and fully integrated design of motor, electronics and transmission. In addition, recent proposals of major automakers indicate that 2-speed transmission is now ready to compete in the market thanks to its capability of saving energy and improving drivability. There-fore, successful achievements of above challenging targets motivate the current issue proposal, which focuses on the scientific advancement and technological development on electric drive system.

In this special issue, we aim to invite researchers to submit their original research papers with significant contributions in the field of electric drive system, which reflects the latest advances in developing and understanding the design, control and optimization of electric drive system.

Topics

- Thermal Management of Electric Drive System
- High-Speed Electric Motor
- NVH Optimization of Electric Drive System
- Mode Shift Control of Electric Drive System
- Transmission Efficiency of Electric Drive System
- Load Cycle Design of Electric Drive System
- Novel Component Design of Electric Drive System
- Transmission Scheme Synthesis of Electric Drive System

Guest Editors

- Prof. William CAI, Harbin University of Science and Technology
- Prof. Amir Khajepour, University of Waterloo
- Prof. Ferit Küçükay, Technical University of Braunschweig
- Prof. Hui Liu, Beijing Institute of Technology
- Prof. Peter Tenberge, Ruhr-University Bochum
- Prof. Guangyu Tian, Tsinghua University
- Prof. Xiangyang Xu, Beihang University
- Prof. Nong Zhang, University of Technology Sydney

Submission Guidelines

1. Please submit online via www.springer.com/42154, be sure to select Special Issue: Electric Drive System for Electric Vehicles.
2. Please read the instructions for authors online and typeset accordingly.
3. All manuscripts will be peer reviewed and evaluated based on quality, originality, novelty, and relevance to the topics.
4. If any problems, please feel free to contact the journal editorial office via email: jai-editor@sae-china.org.

Submission Deadline

April 30, 2020

About Automotive Innovation

Automotive Innovation is an international, academic and peer-reviewed journal, aiming to provide an exchange platform of innovative engineering and scientific achievements for engineers and applied scientists in automotive and mobility engineering, and focusing on automotive innovative technologies and theories. Topics range from energy-saving technology to intelligent and connected vehicles. It is the first English academic journal in China's automotive industry, sponsored by China SAE and published via Springer Nature.

Since the international journal of *Automotive Innovation* founded, world-renowned automotive experts have been invited to join the Editorial Board. Outstanding quality of published papers have been ensured to meet high standards of SCI level. *Automotive Innovation* is published quarterly with readers from 72 countries and regions worldwide.

The journal has been recognized by many renowned organizations in the automotive industry such as FISITA and SAE International.

Scope

Covering the principles, methodologies, designs, theoretical background, and cutting-edge technologies in connection with vehicles, the main topics include but are not limited to:

- Intelligent and connected vehicles
- Electric vehicle technologies
- Energy-saving and Eco-systems
- Automotive safety technologies
- Automotive industry system engineering

Advantages of the Submission

- An international journal distributed worldwide
- Reflecting the top-level research and technical advance
- Opportunity to demonstrate, publicize and exchange innovative technology
- Publishing articles free of charge

Welcome your submissions !



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