

## Special Issue

# Design Theory, Optimal Control and Intelligent Algorithms of Electric Vehicles and Intelligent Vehicles

### Message from the Guest Editors

Electrification and intelligence are currently important development directions in the automotive industry. The integrated optimization of chassis control technology and autonomous driving technology for electric vehicles is of great significance. The improvement of comprehensive performance requires advanced vehicle chassis systems to have the ability to be precise, reliable, and responsive. The advanced control and coordination optimization of distributed drive systems, SBW/BBW systems, and active suspension systems all have the potential to improve chassis dynamic control performance. Among them, the analysis, modeling, control, and optimal design of vehicle dynamic systems involve symmetric or asymmetric problems. Many key technologies of intelligent vehicles also urgently need to be developed more thoroughly. Environment perception, behavioral decision making, motion planning technology, and its effective integration with vehicle chassis control technology for intelligent driving scenarios are all current research hotspots in the automotive industry...

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### Guest Editors

Dr. Te Chen

Dr. Jiajia Wang

Dr. Qiangqiang Yao

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### Deadline for manuscript submissions

closed (1 October 2024)



## Symmetry

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*Symmetry*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[symmetry@mdpi.com](mailto:symmetry@mdpi.com)

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### Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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### Editor-in-Chief

Prof. Dr. Sergei Odintsov

1. ICREA, 08010 Barcelona, Spain

2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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