



an Open Access Journal by MDPI

# Vehicle Modeling and Control

Guest Editors:

#### Prof. Dr. Olivier Sename

GIPSA-lab/Control System department, Grenoble Institute of Technology, 38031 Grenoble, France

#### Dr. Van Tan Vu

Department of Automotive Mechanical Engineering, Faculty of Mechanical Engineering, University of Transport and Communications, 11500 Ha Noi, Viet Nam

#### Dr. Thanh-Phong Pham

Department of Electrical and Electronic Engineering, University of Danang-University of Technology and Education, 550000 Danang, Vietnam

Deadline for manuscript submissions: closed (30 September 2022)

### Message from the Guest Editors

Dear colleagues,

As the demands of people on the move are increasingly enhanced, the requirements on vehicle quality are also increasing. The study of vehicle modeling and control has long been an important key to achieving this goal. While the study of vehicle modeling has been carried out from the moment cars were put into service, in order to get everbetter cars, this field has never reached its limit. As the mechatronics and advanced control methods

- Vehicle/system modeling and identification
- Vehicle dynamics and control
- Fault detection and fault tolerant control
- Advanced control for vehicles
- Active/semi-active safety systems
- Electric vehicles, intelligent vehicles, autonomous vehicles

Prof. Dr. Olivier Sename Dr. Van Tan Vu Dr. Thanh-Phong Pham *Guest Editors* 









an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Kenji Uchino

Emeritus Academy Institute, The Pennsylvania State University, University Park, PA 16802, USA

### Message from the Editor-in-Chief

We are just entering the Next Wave of Technology (NWT) where actuators will play the same role as the computer chip did for computers/social media approximately four decades ago. Just in the U.S., production of \$1 trillion year of electromechanical systems (vehicles, orthotics, manufacturing cells, freight trains, aircraft, etc.) will be impacted by the NWT, all driven by actuators. Five key trends can be found for the future perspectives: "Performance to Reliability", "Hard to Soft", "Macro to Nano", "Homo to Hetero" and "Single to Multi functional". We invite papers that primarily impact these economic sectors; those illustrating basic scientific principles are also welcome.

# **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions. **High Visibility:** indexed within SCIE (Web of Science), Scopus, Inspec, and other databases. **Journal Rank:** JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2 (Control and Optimization)

### **Contact Us**

*Actuators* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/actuators actuators@mdpi.com X@Actuators\_MDPI