

# Special Issue

## Vehicle Modeling and Control

### 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 ever-better 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

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### Guest Editors

Prof. Dr. Olivier Sename

Dr. Van Tan Vu

Dr. Thanh-Phong Pham

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### Deadline for manuscript submissions

closed (30 September 2022)



## Actuators

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Kenji Uchino  
Emeritus Academy Institute, The Pennsylvania State University,  
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