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Advancing Actuators-Based Land Transport Systems: State of the Art and New Technologies

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Deadline for manuscript submissions:
closed (20 December 2022)

Message from the Guest Editors

Aiming at widely spreading the latest research in the field, we are pleased to announce a Special Issue "Advancing Actuators-based Land Transport Systems: State of the Art and New Technologies". This Special Issue will bring together original and high-quality articles through an international standard peer-review process with the following main topics (not an exhaustive list):

- Modeling, estimation, and control of actuator-based land transport systems.
- Fault diagnosis and prognosis of actuator-based land transport systems.
- Fault tolerant control of actuator-based land transport systems.
- Classical chassis and modern by-wire systems in intelligent vehicles of actuator-based land transport systems.
- Sensing, interpreting, and decision makings of connected and autonomous vehicles in land transport systems.
- Navigation, guidance, and control of autonomous vehicles in land transport systems.
- AI based modelling, optimization, estimation and control technologies for actuator-based land transport systems.
- Tests and evaluation on actuator-based land transport systems.

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Special Issue

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Message from the Editorial Board

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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