Special Issue

Modelling, Control and Condition Monitoring of Actuator-Based Land Transport Systems

Message from the Guest Editors

This Special Issue will bring together original and high-quality articles through an international standard peer review process on the following (but nonexclusive) main topics:

- Modeling, estimation, and control of actuator-based land transport systems.
- Model-based/data-driven fault diagnosis and prognosis of actuator-based land transport systems.
- Active/passive fault tolerant control of actuator-based land transport systems.
- Model-based/data-driven fault tolerant control of actuator-based land transport systems.
- Sensor placement of land transport systems for condition monitoring.
- Distributed fault diagnosis and prognosis methods.
- Case studies on new applications of control and condition monitoring methods.

We look forward to your valuable contributions.

Guest Editors

Dr. Hai Wang

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Prof. Dr. Zhaowu Ping

Prof. Dr. Yongfu Li

Prof. Dr. Bin Xu

Deadline for manuscript submissions

closed (30 July 2021)

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About the Journal

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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