Special Issue

Actuators for Intelligent Electric Vehicles

Message from the Guest Editors

The electrification and intelligence of automobiles have become popular in recent years. The intelligent electric vehicle (IEV) is a transformative technology that is expected to change and advance the safety, comfort, efficiency, handling stability, and maneuverability of automobiles. This Special Issue aims to attract papers devoted to any aspect of advanced actuators for IEVs and the design of control algorithms. The topics of interest within the scope of this Special Issue include, but are not limited to, the following: X-by-wire actuator for IEVs;
Advanced actuators for steering, braking, and driving;
Control of active suspension system;
Advanced control algorithms for IEVs;
Collaborative control of human driver and IEV;
Advanced Driving Assistance System (ADAS);
Decision making, motion planning, and control of IEVs;

Guest Editors

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Deadline for manuscript submissions

closed (15 January 2022)

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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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