Special Issue

Learning Control, Fault Diagnosis, and Actuator Applications of Complex Networked Systems

Message from the Guest Editors

This Special Issue aims to bring together researchers and practitioners in the field of fault diagnosis and learning-based control of networked system to share their latest findings and advancements. The scope of this Special Issue includes but is not limited to the following topics: (1) New control and fault detection methods for networked systems involve actuators; (2) Actuator applications in multi-agent systems, cyber-physical systems, or intelligence systems; (3) Machine learning and artificial intelligence for networked systems with smart actuators; (4) Model-based and data-driven approaches for fault diagnosis; (5) Learning-based control and fault tolerance control of networked systems with actuator fault; (6) Applications of actuator control systems in industrial, transportation, and aerospace systems.

Guest Editors

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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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