Special Issue

Sensing and Actuating Tasks in IoT Environments

Message from the Guest Editors

Dear colleagues, The Internet of Things (IoT) is an emerging paradigm that inspires industries to develop intelligent and autonomous systems based on Internet-connected devices. The IoT comprises heterogeneous devices, applications, and platforms using multiple communication technologies to connect the Internet to ubiquitously provide seamless services. Leveraging cloud computing, the IoT can be supported to apply not only large-scale and personalized data, but also artificial-intelligence (AI) algorithms based on offloading AI approaches to high-performance servers to work with huge volumes of data in the cloud. Through the task scheduling of IoT services, various continuous scenarios can be deployed for controlling actuators to update the IoT environment. Contributions from all fields related to Internet of Things are welcome to this Special Issue.

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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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