actuators

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Intelligent Actuators

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

A lot have been done in recent years in order to improve the quality and efficiency of the industrial processes, both in the control theory as well as in practice. Intelligent actuators and sensors, functional safety, cybersecurity, fault-tolerant and self-repair systems, embedded diagnostics, computational cloud technologies, and implementation of Industry 4.0 concepts are the only chosen keywords that address contemporary technology revolution in the area of actuators. The primary aim of this Special Issue is to bring together recent ideas, results of research, technology, and theoretical achievements focused particularly on the intelligent actuators intended for automatic control and robotics. This Issue aims also to underline the place, value, and increasing role of these devices. We invite research, process and control engineers, and process operators to join this Issue. We also cordially invite academia and practitioners to discuss the problem of to which extent the idea of virtual actuators will find industrial applications, as has been the case for virtual sensors.

Dr. Michał Bartyś
Guest Editor