Combining Sensors and Multibody Models for Applications in Vehicles, Machines, Robots and Humans

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closed (31 August 2021)

Message from the Guest Editors

Dear Colleagues,

The combination of physical sensors and computational models to provide additional information about system states, inputs, and/or parameters, in what is known as virtual sensing, is becoming more and more popular in many sectors, such as the automotive, aeronautics, machinery, robotics, and human biomechanics sectors.

This Special Issue seeks works dealing with the many challenges that must be overcome when developing multibody-based virtual sensors. These challenges include the selection of the fusion algorithm and its parameters, the coupling or independence between the fusion algorithm and the multibody formulation, magnitudes to be estimated, the stability and accuracy of the adopted solution, optimization of the computational cost, real-time issues, and implementation on embedded hardware. We also welcome studies on the application of multibody-based virtual sensors to, for example, vehicles, mobile or humanoid robots, assistive orthotic and prosthetic devices, or the measurement and analysis of human movement.

For more information, please clink: mdpi.com/si/57103.

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Special Issue

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Message from the Editor-in-Chief

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