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Control and Navigation Design for Robotic Systems

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Message from the Guest Editors

Dear Colleagues,

The last few years have seen a growing interest in the development of intelligent vehicles capable of moving autonomously in space and being aware of their surroundings. Their great potential makes them ideal for the most varied fields of application: agriculture, manufacturing, land and aerial surveillance, naval operations, commercial transport, and space exploration. Despite the significant results achieved in terms of accuracy in the real-time implementation of on-board algorithms for small autonomous systems, assessed solutions are not available, and complex technical challenges still need to be addressed.

The scope of this Special Issue is to present the latest methodological and applied developments for control and navigation algortihms for robotic systems. The topics for this Special Issue involve new advances in observer and nonlinear navigation algorithms, multi-agent control and navigation systems, and cooperative control. Applications should include aerospace, robotics, and agriculture, as examples.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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