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Autonomous Navigation Systems: Design, Control and Applications

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Deadline for manuscript submissions:
closed (10 March 2021)

Message from the Guest Editors

Dear Colleagues,

In a few years, advances in autonomous navigation systems (ANS) will allow all kinds of robots to roam everywhere, interacting among them and/or with humans. Producing truly reliable ANS systems goes beyond overcoming a series of technological challenges, ranging from the production of better sensors and actuators to the development of algorithms and interaction protocols that allow robots to make successful navigation decisions.

This Special Issue focuses on the analysis, design, implementation, and emerging applications of autonomous navigation systems. The topics of interest include but are not limited to:

- Autonomous mobile robots
- Simultaneous localization and mapping (SLAM)
- Path planning and following
- Collision-free multiagent/robot cooperative navigation
- Swarm navigation
- Human detection and interaction
- Autonomous aerial/underwater vehicles.

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Message from the Editor-in-Chief

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