



Autonomous Navigation Systems: Design, Control and Applications

Guest Editors:

Prof. Dr. Rafael Casado

Department of Computing
Systems, University of Castilla-La
Mancha, 02071 Albacete, Spain

Prof. Dr. Aurelio Bermúdez

Department of Computing
Systems, University of Castilla-La
Mancha, 02071 Albacete, Spain

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/electronics
electronics@mdpi.com
[X@electronicsMDPI](https://twitter.com/electronicsMDPI)