



an Open Access Journal by MDPI

Navigation Control and Signal Processing Methods for Multiple Autonomous Unmanned Systems

Guest Editors:

Prof. Dr. Haoqian Huang

College of Energy and Electrical Engineering, Hohai University, Nanjing 210024, China

Prof. Dr. Bing Wang

College of Energy and Electrical Engineering, Hohai University, Nanjing 210098, China

Prof. Dr. Yuan Yang

School of Instrument Science and Engineering, Southeast University, Nanjing 211189, China

Deadline for manuscript submissions:

closed (31 July 2023)



mdpi.com/si/100553

Message from the Guest Editors

Dear Colleagues,

The underwater unmanned system refers to underwater unmanned control systems with certain autonomous capacity and autonomy, which is a combination of artificial intelligence and real-time control decision systems.

This special issue aims to provide advanced control, navigation, and signal processing methods for multiple autonomous unmanned systems. Potential topics to be covered:

- New investigation methods and sensors for path planning;
- Compensation and calibration algorithms for navigation sensors;
- Advanced sensors and information fusion for underwater navigation;
- Underwater image enhancement and 3D image reconstruction;
- Mobile robot navigation and control based on intelligent learning/bionics ;
- Cooperative control and navigation in multi-unmanned systems;
- Quantum devise and intelligent measurement ;
- Bionic navigation sensors;
- New-concept navigation;
- Underwater data link communication technology;

Prof. Dr. Haoqian Huang

Prof. Dr. Bing Wang

Prof. Dr. Yuan Yang

Guest Editors

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)