



Positioning and Localization in Mobile Robots and Intelligent Transportation Systems

Guest Editors:

Dr. Jonay Toledo

Computer Science Department,
University of La Laguna, 38200
San Cristóbal de La Laguna,
Santa Cruz de Tenerife, Spain

Prof. Dr. Leopoldo Acosta

Computer Science Department,
University of La Laguna, 38200
San Cristóbal de La Laguna,
Santa Cruz de Tenerife, Spain

Deadline for manuscript
submissions:

closed (25 February 2022)

Message from the Guest Editors

The key to the success of a mobile robot or an intelligent transportation system its correct localization in the environment as the first step, and all the decision making during navigation and planning stacks are based on navigation. Any error in the localization system can lead to complete system failure, or to the stack being in a nonrecoverable situation. Localization is also used in automatic mapping, aerial image reconstruction, and many other projects.

Every project is different, with a specific design in terms of the structure, locomotion system, available sensors, or the environment where it moves, so the localization system must be specifically adapted and is highly dependent on the application. In some cases, standard techniques are not useful due to the characteristics of the prototype.

This Special Issue is centered on all the topics related with automatic localization both outdoor and indoors, including localization sensors, sensor fusion, localization algorithms, new sensor techniques, and all aspects related to localization in any system.





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), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (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](https://twitter.com/AtApplsci)