Swarm Intelligence and Swarm Robotics: Latest Advances and Prospects

Guest Editors:

Dr. Daniel H. Stolfi
SnT, University of Luxembourg, L-4364 Esch-sur-Alzette, Luxembourg

Dr. Grégoire Danoy
FSTM/DCS / SnT, University of Luxembourg, L-4364 Esch-sur-Alzette, Luxembourg

Deadline for manuscript submissions:
closed (20 December 2023)

Message from the Guest Editors

Dear Colleagues,

We are inviting submissions to a Special Issue on Swarm Intelligence and Swarm Robotics: Latest Advances and Prospects.

Distributed autonomous systems bring multiple economic advantages. A promising way to manage these distributed systems is through the utilization of swarm intelligence. However, designing fully distributed and autonomous systems remains a challenging open problem since the global system performance is difficult to predict. The problem becomes even more challenging since it is multi-objective by nature.

In this Special Issue, we invite submissions exploring cutting-edge research and recent advances in swarm intelligence and swarm robotics which include, but are not limited to, the following topics: surveillance systems, distributed systems, modelling and simulation, cooperative control, swarm intelligence, swarms of drones, multi-agent systems, self-organisation, robot formation control, distributed machine learning, collective mapping, and UAV traffic management (UTM).

Both theoretical and experimental studies are welcome, as well as comprehensive review and survey papers. We look forward to receiving submissions of your quality research work.

Special Issue

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, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us