

Special Issue

Sensing Technology in Evolutionary Computation

Message from the Guest Editors

Among intelligent algorithms applied to the huge data provided by sensors, some are related to optimization and follow the Evolutionary Computation (EC) paradigm. While classical optimization most often requires objective functions to be differentiable or only apply to small size problems, as with exact methods, EC alleviates this requirement and allows to address a large range of applications with easy-to-implement methods, possibly executed in a parallel and distributed way, and providing high-quality empirical results. The aim of this Special Issue is to solicit up-to-date contributions on the topics of Evolutionary Computation in the context of sensing technology. Sensors, and their digital data and devices, can include camera sensors, ultrasound and sonar sensors, Lidar, and UAV sensors. The problematics include, but are not limited to, pattern recognition, perception with uncertain data, feature extraction, tracking and matching, optical-flow computation and data fusion. Within EC, we include, amongst others, population-based metaheuristics, particle swarm optimization and to a larger extent, neighborhood search, hyperheuristics, and hybrid methods.

Guest Editors

Dr. Jean Charles Créput

CIAD, University Bourgogne Franche-Comté, UTBM, 90010 Belfort, France

Dr. Mahjoub Dridi

Laboratoire Connaissance et Intelligence Artificielle Distribuées (CIAD), University Bourgogne Franche-Comté, UTBM, 90010 Belfort, France

Deadline for manuscript submissions

closed (25 February 2024)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/169596

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



About the Journal

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di
Bari, Via Orabona 4, 70126 Bari, Italy

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), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)