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Sensing Technology in Evolutionary Computation

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Deadline for manuscript submissions:
closed (25 February 2024)

Message from the Guest Editors

Dear Colleagues,

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.

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Message from the Editor-in-Chief

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