Bio-Inspired Optimization Algorithms and Designs for Engineering Applications

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Message from the Guest Editors

With the development in industrialization, engineering applications are becoming more and more frequent. Thereby, wide and various engineering problems come with it. To solve these complex real-world problems, a host of optimization algorithms are proposed, and bio-inspired optimization algorithms account for a large proportion. Numerous literature shows that bio-inspired optimization algorithms with the capability of rapidly converging and escaping from local optimal could solve complex problems, such as non-convex, nonlinear constraints, and high-dimensional problems. Due to the sufficient performance of these optimization algorithms, through an exploration and exploitation process, accurate and adequate results can eventually be produced at a small cost.

The purpose of this Special Issue is to capture recent contributions of high-quality papers focusing on interdisciplinary research on the optimization algorithm for engineering applications using methods that inspired by the dynamic and intelligent conducts of creatures, such as hunting, mating, and other social behaviors.

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