Special Issue

Swarm Intelligence and Evolutionary Algorithms for Real World Applications

Message from the Guest Editor

Swarm intelligence (SI) and evolutionary computation (EC) techniques have been thriving research topics, especially in areas where conventional methods fail to deal with the size and nature of the problem space. The self-organizing nature of swarm intelligence and evolutionary computation in both natural and computational models is key to the attractiveness of such techniques; they not only explain and reflect on the natural and social phenomena but also their application to solve complex problems in many disciplines. Additionally, noisy environments and/or incomplete data are often at the heart of real-world data where search- and optimization-related problems are among the core issues. Ever since the inception of SI and EC techniques, researchers have been attracted to the complex emergent behaviour, robustness, and easy-to-understand architecture of nature-inspired swarm intelligence and evolutionary algorithms. In challenging search environments, these methods have often proved more useful than the conventional approaches.

Guest Editor

Dr. Mohammad Majid al-Rifaie
School of Computing & Mathematical Sciences, Faculty of Engineering and Science, University of Greenwich, London SE10 9LS, UK

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

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Message from the Editor-in-Chief

Algorithms are the core of computational mathematics and computer science. The whole area has been considered from different perspectives, which has led to the development of several sub-communities. The aim is to bring together researchers and practitioners from different areas of computational mathematics and computer science and to offer a platform for interdisciplinary applications in different areas of science and technology. In this way, *Algorithms* may become a forum for the exchange of new stimulating ideas between the different sub-communities working in the area of algorithms and their applications and the presentation of high-quality novel algorithmic approaches.

Editor-in-Chief

Prof. Dr. Frank Werner
Faculty of Mathematics, Otto-von-Guericke-University Magdeburg, P.O. Box 4120, D-39016 Magdeburg, Germany

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