Special Issue

Differential Evolution for Manufacturing and Production Engineering Applications

Message from the Guest Editors

Several approximation optimization algorithms have been proposed in manufacturing and production engineering applications so far. These approaches have been instrumental in solving several complex interdisciplinary problems; one such popular evolutionary methodology is the Differential Evolution (DE) algorithm. The DE has several advantages: it is derivative-free, resorts to directional searches and. importantly, can efficiently handle continuous, discrete and combinatorial problems. So far, several variations of the DE have been proposed and applied to a variety of problems across several domains; however, its application in manufacturing and production is less explored. his Special Issue calls for contributions focusing on the various related aspects of the Differential Evolution (DE) algorithm as well as its hybrid, including (but not limited to) the following areas: • Manufacturing processes;

- Design of machine elements:
- Productivity of the machining processes;
- Production planning and scheduling;
- Flexible manufacturing;
- Supply chain management;
- · Robotics and automation.

Guest Editors

Dr. Anand J Kulkarni

Institute of Artificial Intelligence MIT World Peace University, 124 Paud Road, Kothrud, Pune 411038, India

Prof. Dr. Luigi Benedicenti

Faculty of Computer Science, University of New Brunswick, 550 Windsor Street, Fredericton, NB E3B 5A3, Canada

Deadline for manuscript submissions

closed (15 May 2023)



Algorithms

an Open Access Journal by MDPI

Impact Factor 2.1 CiteScore 4.5



mdpi.com/si/112732

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

mdpi.com/journal/algorithms





Algorithms

an Open Access Journal by MDPI

Impact Factor 2.1 CiteScore 4.5



About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

Prof. Dr. Frank Werner

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), Ei Compendex, and other databases.

Journal Rank:

JCR - Q2 (Computer Science, Theory and Methods) / CiteScore - Q1 (Numerical Analysis)

