Special Issue

Iterative Algorithms for Nonlinear Problems: Convergence and Stability

Message from the Guest Editors

Many areas of Science and Technology involve the non-trivial task of solving nonlinear problems. Usually, it is not affordable in a direct way and iterative algorithms play a fundamental role in their approach. This area of research has enjoyed a period of an exponential growth in the last number of years. This Special Issue is mainly dedicated, but not exclusively, to the design, analysis of convergence and stability of new iterative algorithms for solving nonlinear problems. Moreover, their application to practical problems of Engineering and Basic Sciences are of singular interest. The set of algorithms includes, but is not limited to, methods with and without memory, with derivatives of derivative-free, the real or complex dynamics associated to them and an analysis of their convergence that can be local, semilocal or global.

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Deadline for manuscript submissions

closed (15 November 2020)

Algorithms

an Open Access Journal by MDPI

Impact Factor 1.8
CiteScore 4.1

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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

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