Special Issue

Iterative Algorithms for Nonlinear Problems: Convergence and Stability 2021-2022

Message from the Guest Editors

This Special Issue is mainly, but not exclusively, dedicated to the design and analysis of the convergence and stability of new iterative algorithms for solving nonlinear problems (scalar, vectorial, or matrix equations). 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 or derivative-free, the real or complex dynamics associated to them, and an analysis of their convergence that can be local, semilocal, or global. Indeed, as different kinds of derivatives have recently been introduced in iterative processes (e.g., fractional, fractal, q-derivatives) papers involving these types of derivatives will be welcome.

Guest Editors

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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.

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