Special Issue

Computational Intelligence Algorithms for Dynamic Multiobjective Optimization Problems

Message from the Guest Editors

Most optimization problems have more than one objective, with at least two objectives in conflict with one another. Due to the conflicting objectives of the optimization problem, a single solution does not exist. Instead, a set of optimal trade-off solutions exist, referred to as the Pareto-optimal front (POF) or Pareto frontier. These optimization problems are referred to as multiobjective optimization problems (MOPs). In many real-world situations, the optimization problem does not remain static but is dynamic and changes over time. However, in recent years, most research has focused on either static MOPs or dynamic single-objective optimization problems (DSOPs). When solving dynamic multiobjective optimization (DMOO) problems (DMOPs), an algorithm must track the changing POF over time by finding solutions as close as possible to the POF and maintaining a diverse set of solutions. This Special Issue aims to highlight the latest developments in DMOO, and to bring together researchers from both academia and industry to address challenges in the field.

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The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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