Applied Computational Intelligence and Soft Computing

Special Issue on
Advances in Multiobjective Optimization: Theory and Applications

CALL FOR PAPERS

Many a time, we deal with multiobjective optimization (MOP) problems in various fields in which objectives are found to be conflicting in nature. MOPs have been applied in fields of science, including engineering, economics, and logistics, where the optimal decisions need to be made in the presence of objectives trade-offs. Considering multiobjectives that often compete and conflict with each other make it impossible to achieve a solution in which all objectives have their optimum value. Due to its complicated nature, multiple criteria decision making can be used to find a solution that represent a compromise between the different objectives depending on the preferences of the decision maker.

The aim of this special issue is to bring together recent challenges and developments in the field of multiobjective optimization paradigms. We welcome high quality papers in theory and methods of multiobjective optimization.

Potential topics include but are not limited to the following:

- ▶ Multiobjective programming
- ▶ Theories and applications in MOP
- ▶ Discrete and combinatorial MOP
- ▶ Stochastic and dynamic MOP
- ▶ Robust multiobjective optimization
- ▶ Evolutionary multiobjective optimization (EMO)
- ▶ Multiobjective swarm intelligent systems
- ▶ Complexity analysis of multiobjective optimization algorithms
- ▶ Multiobjective branching algorithms
- ▶ Performance measures for EMO algorithms
- ▶ Techniques to keep diversity in the Pareto solutions
- ▶ Exact methods in multiobjective (mixed) integer and continuous optimization
- ▶ MOP tuning techniques
- ▶ Multiobjective integrated-based decision making techniques such as goal programming
- ▶ MOP with fuzzy considerations
- ▶ Data envelopment analysis
- ▶ Compromise programming
- ▶ Multiattribute utility approaches

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