Special Issue on
Multiobjective Programming under Uncertainty

CALL FOR PAPERS

Optimization of a single objective oversimplifies the pertinent objective function in some potential mathematical programming application situations. Multiobjective programming formally permits formulations where (a) solutions are generated which are as consistent as possible with target levels of goals; (b) solutions are identified which represent maximum utility across multiple objectives; or (c) solution sets are developed which contain all nondominated solutions. Multiple objectives can involve such considerations as leisure, decreasing marginal utility of income, risk avoidance, preferences for hired labor, and satisfaction of desirable, but not obligatory, constraints.

Multiobjective programming, known as multicriteria or multiattribute optimization, is the process of simultaneously optimizing two or more conflicting objectives. Multiobjective programming is an optimization technique for solving problems with multiple conflicting goals. Mathematically, objectives are said to be conflicting if optimal solutions corresponding to each individual objective are not the same within the feasible region.

Decisions must often be taken in the face of the unknown. Actions decided upon in the present will have consequences that cannot fully be determined until a later stage. But there may be openings for corrective action later or even multiple opportunities for recourse as more and more becomes known. Uncertain multiobjective programming is a type of mathematical multiobjective programming in which the objectives and the constraints contain uncertain variables.

We invite authors to submit original research and review articles that propose a new multiobjective model under uncertainty of novel optimization approaches for uncertain multiobjective problems. We are interested in articles that explore aspects of multiobjective modelling and optimization under uncertainty.

Potential topics include but are not limited to the following:

- ▶ Utility based multiobjective model
- ▶ Interactive multiobjective model
- ▶ Compensated multiobjective model
- ▶ Fuzzy multiobjective model
- ▶ Stochastic multiobjective model
- ▶ Bayesian multiobjective model
- ▶ Markovian multiobjective model
- ▶ Pareto multiobjective model
- ▶ Linear and nonlinear multiobjective program
- ▶ Dynamic multiobjective program
- ▶ Multistage multiobjective program

Authors can submit their manuscripts through the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/jopti/mpuu/.

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