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An overview of interactive methods for solving nonlinear multiobjective optimization problems is given. In interactive methods, the decision maker progressively provides preference information so that the her or his most satisfactory Pareto optimal solution can be found.

#### Interactive Nonlinear Multiobjective Optimization Methods ...

This chapter provides an annotated bibliography of nonlinear multiobjective programming. The list of references comprises more than 500 entries. First we explain some solution concepts which are fundamental and important in multiobjective optimization. Some basic properties of the solution sets are also discussed.

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M. Kok. Scalarization and the interface with decision makers in interactive multi objective linear programming. In P. Serafini, editor, Mathematics of Multi Objective Optimization, pages 433-438. Springer-Verlag, Wien, New York, 1985. Google Scholar

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Abstract Many real-world search and optimization problems are naturally posed as non-linear programming problems having multiple objectives. Due to the lack of suitable solution techniques, such problems were artificially converted into a single-objective problem and solved.

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Multiobjective optimization deals with solving problems having not only one, but multiple, often conflicting, criteria. Such problems can arise in practically every field of science, engineering and business, and the need for efficient and reliable solution methods is increasing.

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His research activities have been mainly focused on theory and methods of nonlinear scalar and multiobjective optimization, variational and quasivariational inequalities, equilibrium problems. Mauro Passacantando is Assistant Professor of Operations Research at the Department of Computer Science of the University of Pisa, Italy.

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