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The book presents recent results obtained by the author and is aimed at mathematicians, scientists, students and practitioners interested in optimization and numerical homotopy methods. Keywords Vector optimization geometry homotopy theory multi-objective optimization numerical analysis optimization

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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.

Multi-Objective Optimization | SpringerLink

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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We provide an improved FPTAS for multiobjective shortest paths—a fundamental (NP-hard) problem in multiobjective optimization—along with a new generic method for obtaining FPTAS to any multiobjective optimization problem with non-linear objectives. We show how these results can be used to obtain better approximate solutions to three related problems, multiobjective constrained [optimal] path and non-additive shortest path, that have important applications in QoS routing and in traffic ...

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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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Multi-objective Optimal Design of Nonlinear Controls ...

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