

## Nonlinear Multiobjective Optimization A Generalized Homotopy Approach 1st Edition

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Arguably, many industrial optimization problems are of the multiobjective type. The present work, after providing a survey of the state of the art in multiobjective optimization, gives new insight into this important mathematical field by consequently taking up the viewpoint of differential geometry. This approach, unprecedented in the literature, very naturally results in a generalized homotopy method for multiobjective optimization which is theoretically well-founded and numerically efficient.

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Abstract Based on the ordering relations induced by a pointed, closed and convex cone with a nonempty interior, we propose a nonlinear augmented Lagrangian dual scheme for a nonconvex...

~~Nonlinear augmented Lagrangian for nonconvex ...~~

In the context of economics and optimization, a fundamental role is nowadays recognized to generalized concavity which has been widely studied starting from the pioneering work of K. Arrow and A.C. Enthoven [].The study of generalized concavity of a vector valued function is not so deep as in the scalar case; nevertheless some classes with related properties have been suggested in order to ...

~~Generalized Concavity in Multi-Objective Optimization ...~~

The generalized regression neural network algorithm The GRNN neural network has strong nonlinear mapping capability, high fault tolerance and robustness. The network eventually converges to the optimized regression surface with more sample accumulation, which is suitable for solving nonlinear problems.

~~Analysis and multi-objective optimization of slag powder ...~~

Multi-objective optimization has been applied in many fields of science, including engineering, economics and logistics where optimal decisions need to be taken in the presence of trade-offs between two or more conflicting objectives. Minimizing cost while maximizing comfort while buying a car, and maximizing performance whilst minimizing fuel consumption and emission of pollutants of a vehicle are examples of multi-objective optimization problems involving two and three objectives ...

~~Multi-objective optimization - Wikipedia~~

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A new technique which converts a constrained optimization problem to an unconstrained one where conflicting figures of merit may be simultaneously considered has been combined with a complex mission analysis system. The method is compared with existing single and multiobjective optimization methods. A primary benefit from this new

~~Aircraft Design for Mission Performance Using Nonlinear ...~~

Generalizations of convexity related to optimality conditions and duality for nonlinear single objective or multiobjective optimization problems have been of much interest in the recent past and thus explored the extent of optimality conditions and duality applicability in mathematical programming problems.

~~Generalized (Type I Univex Functions in ...~~

5 Multiobjective nonlinear fractional programming problems involving generalized d-type-I n-set functions Further, if the conditions of the weak duality Theorem 2.1 also hold, then  $(\bar{x}, \bar{y})$  is an efficient solution to (D). Now we give a strict converse duality theorem of Mangasarian type [3] for (P)

~~MULTIOBJECTIVE NONLINEAR FRACTIONAL PROGRAMMING PROBLEMS ...~~

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Mathematically, the multiobjective optimization problem can be formulated as a vector nonlinear optimization problem under constraints as follows. It is assumed that an optimization problem is described in terms of a design variable vector  $x=(x_1, x_2, \dots, x_N)$  in the design space  $X \subseteq \mathbb{R}^N$ .

~~A method for generating a well distributed Pareto set in ...~~

Wolfe-type Duality, Mond-Weir type Duality, Mixed type Duality for Multiobjective optimization problems such as Nonlinear programming problems, Fractional programming problems, Nonsmooth programming problems, Nondifferentiable programming problems, Variational and Control problems under various types of generalized convexity assumptions.

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