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 Springer

Mathematical Programming Journal

Ying Liu



Mathematical Programming Journal:

Mathematical Programming and the Analysis of Capital Budgeting Problems H. Martin Weingartner, 1967 [Invexity and Optimization](#) Shashi K. Mishra, Giorgio Giorgi, 2008-05-23 Invexity and Optimization presents results on invex function and their properties in smooth and nonsmooth cases pseudolinearity and eta pseudolinearity Results on optimality and duality for a nonlinear scalar programming problem are presented second and higher order duality results are given for a nonlinear scalar programming problem and saddle point results are also presented Invexity in multiobjective programming problems and Kuhn Tucker optimality conditions are given for a multiobjective programming problem Wolfe and Mond Weir type dual models are given for a multiobjective programming problem and usual duality results are presented in presence of invex functions Continuous time multiobjective problems are also discussed Quadratic and fractional programming problems are given for invex functions Symmetric duality results are also given for scalar and vector cases *Generalized Convexity and Vector Optimization* Shashi K. Mishra, Shouyang Wang, Kin Keung Lai, 2008-12-19 The present lecture note is dedicated to the study of the optimality conditions and the duality results for nonlinear vector optimization problems in finite and infinite dimensions The problems include are nonlinear vector optimization problems symmetric dual problems continuous time vector optimization problems relationships between vector optimization and variational inequality problems Nonlinear vector optimization problems arise in several contexts such as in the building and interpretation of economic models the study of various technological processes the development of optimal choices in finance management science production processes transportation problems and statistical decisions etc In preparing this lecture note a special effort has been made to obtain a self-contained treatment of the subjects so we hope that this may be a suitable source for a beginner in this fast growing area of research a semester graduate course in nonlinear programming and a good reference book This book may be useful to theoretical economists engineers and applied researchers involved in this area of active research The lecture note is divided into eight chapters Chapter 1 briefly deals with the notion of nonlinear programming problems with basic notations and preliminaries Chapter 2 deals with various concepts of convex sets convex functions invex set invex functions quasiinvex functions pseudoinvex functions type I and generalized type I functions V invex functions and univex functions **Advances of Artificial Intelligence in a Green Energy Environment** Pandian Vasant, Joshua Thomas, Elias Munapo, Gerhard-Wilhelm Weber, 2022-05-20 *Advances of Artificial Intelligence in a Green Energy Environment* reviews the new technologies in intelligent computing and AI that are reducing the dimension of data coverage worldwide This handbook describes intelligent optimization algorithms that can be applied in various branches of energy engineering where uncertainty is a major concern Including AI methodologies and applying advanced evolutionary algorithms to real world application problems for everyday life applications this book considers distributed energy systems hybrid renewable energy systems using AI methods and new opportunities in blockchain technology in smart energy Covering state of the art developments in a fast moving technology

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SIAM Journal on Control and Optimization Society for Industrial and Applied Mathematics,1999 Contains research articles on the mathematics and applications of control theory and on those parts of optimization theory concerned with the dynamics of deterministic or stochastic systems in continuous or discrete time or otherwise dealing with differential equations dynamics infinite dimensional spaces or fundamental issues in variational analysis and geometry

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