

& Approximation Optimization

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The best Approximation
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Best Approximation And Optimization In Locally Convex Spaces:

The Best Approximation and Optimization in Locally Convex Spaces George Isac, Vasile Postolică, 1993 This book presents several new results on the best simultaneous approximation in locally convex spaces The concept of nuclear cone is systematically used to establish some interesting relations with Pareto optimization and the duality for vectorial optimization programs with multifunctions

Duality for Nonconvex Approximation and Optimization Ivan Singer, 2007-03-12 The theory of convex optimization has been constantly developing over the past 30 years Most recently many researchers have been studying more complicated classes of problems that still can be studied by means of convex analysis so called anticonvex and convex anticonvex optimization problems This manuscript contains an exhaustive presentation of the duality for these classes of problems and some of its generalization in the framework of abstract convexity This manuscript will be of great interest for experts in this and related fields

Advances in Multiple Objective and Goal Programming Rafael Caballero, Francisco Ruiz, Ralph E. Steuer, 2012-12-06 Within the field of multiple criteria decision making this volume covers the latest advances in multiple objective and goal programming as presented at the 2nd International Conference on Multi Objective Programming and Goal Programming Torremolinos Spain May 16 18 1996 The book is an indispensable source of the latest research results presented by the leading experts of the field

Nonlinear Analysis Theory and Applications Reinhard Kluge, Wolfdietrich Müller, 1981

Fixed Point Theory In P-vector Spaces George Xianzhi Yuan, 2025-05-05 This monograph provides an updated development of fixed point theory under a unified framework of the best approximation approach in p vector spaces a core component of nonlinear analysis in mathematics where $p \geq 1$ the same for $p < 1$ unless specified This book exposes some important contents of the new fixed point theory with highlights in four parts Specifically the book focuses on the development of general new fixed point theory for both single valued and set valued mappings under the framework of p vector and locally convex spaces for $p \geq 1$ including topological vector spaces and locally convex spaces as special cases It provides affirmative answers to the Schauder conjecture under the general setting of p vector spaces and locally p convex spaces The book establishes best approximation results for upper semicontinuous and 1 set contractive set valued mappings which are used as tools to establish new fixed point theorems for non self set valued mappings with either inward or outward set conditions under various situations These results improve or unify corresponding results in the existing literature for nonlinear analysis and lay the foundation for the development of fixed point theorems in topological vector spaces since Schauder's conjecture was raised in 1930 In addition this book demonstrates the power of the fixed point theorem by showing the equivalence among the Ekeland variational principle Takahashi minimization theorem Oettli Th ra theorem Caristi Kirk type fixed point theorem and related principles in nonlinear functional analysis Overall this book provides an accessible way to establish the new theory in the development of fixed point theorems and results It is designed to be understandable for senior undergraduate students majoring in mathematics physical sciences social sciences and

related fields We expect that this monograph will serve as a staple textbook for undergraduate and postgraduate students a reference book for researchers in the field of fixed point theory in nonlinear functional analysis and an accessible resource for general readers in mathematics and related disciplines

Revue Roumaine de Mathématiques Pures Et Appliquées, 1985 nonlinear analysis and applications S.P. Singh, J.H. Burry, 2020-11-25 This book contains lecture notes in pure and applied mathematics from the proceedings of an International Conference on Nonlinear Analysis and Applications held at Memorial University of Newfoundland in June 1981 It includes information on fractional calculus and the Stieltjes transform

Journal of analysis and its application, 1999 **Parametric Optimization and Related Topics**, 1991 Analele Universității Din Craiova, 2002 **Parametric Optimization and Related Topics** Jürgen Guddat, 1987 Dissertationes mathematicae, 1998 Analysis II Revaz V. Gamkrelidze, 2012-12-06 Intended for a wide range of readers this book covers the main ideas of convex analysis and approximation theory The author discusses the sources of these two trends in mathematical analysis develops the main concepts and results and mentions some beautiful theorems The relationship of convex analysis to optimization problems to the calculus of variations to optimal control and to geometry is considered and the evolution of the ideas underlying approximation theory from its origins to the present day is discussed The book is addressed both to students who want to acquaint themselves with these trends and to lecturers in mathematical analysis optimization and numerical methods as well as to researchers in these fields who would like to tackle the topic as a whole and seek inspiration for its further development

Approximation, Optimization, and Computing Alan Greenwell Law, Chung-lie Wang, 1990 This volume consists of 101 papers in the areas of approximation optimization and computing and applications Under the sponsorship of IMACS The International Association for Mathematics and Computers in Simulation it represents a collaborative venture initiated in 1986 between the Dalian University of Technology and the University of Regina A primary goal of the project was to encourage research papers reflecting emerging directions within theory and applications Covered are the following analytic or discrete approximations optimization applications deterministic or stochastic processes programming and applications of theory or techniques in engineering or other sciences

Mathematical Reviews, 2005 *Revue Roumaine de Mathématiques Pures Et Appliquées*, 1985 **Mathematical reports**, 1994 Analele științifice ale Universității "Al. I. Cuza" din Iași Universitatea "Al. I. Cuza" din Iași, 1994

Constructive Nonsmooth Analysis Vladimir Fedorovich Dem'ina, Aleksandr Moiseevich Rubinov, 1995 Many practical problems can be described adequately only with the aid of nonsmooth functions The book is mainly devoted to describing problems tools and results in the area of Nonsmooth Analysis and Nondifferentiable Optimization in particular those that can be easily transformed into practically applicable and computationally implementable ones Most of the attention is paid to different generalizations of the concept of derivative subdifferentials in Convex Analysis the Clarke Subdifferential Quasidifferentials Codifferentials Calculus of Quasidifferentials Implicit Functions Nonsmooth Extremal Problems **A**

Course on Optimization and Best Approximation Richard B. Holmes, 1972

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