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David Gao
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Erricos John Kontoghiorghe



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Advances in Global Optimization David Gao, Ning Ruan, Wenxun Xing, 2014-11-11 This proceedings volume addresses advances in global optimization a multidisciplinary research field that deals with the analysis characterization and computation of global minima and or maxima of nonlinear non convex and nonsmooth functions in continuous or discrete forms The volume contains selected papers from the third biannual World Congress on Global Optimization in Engineering combinatorial optimization duality theory topology optimization variational inequalities and complementarity problems numerical optimization stochastic models and simulation and complex simulation and supply chain analysis

Variational-Hemivariational Inequalities with Applications Mircea Sofonea, Stanislaw Migorski, 2024-12-10

Variational Hemivariational Inequalities with Applications Second Edition represents the outcome of the cross fertilization of nonlinear functional analysis and mathematical modelling demonstrating its application to solid and contact mechanics Based on authors original results the book illustrates the use of various functional methods including monotonicity pseudomonotonicity compactness penalty and fixed point methods in the study of various nonlinear problems in analysis and mechanics The classes of history dependent operators and almost history dependent operators are exposed in a large generality A systematic and unified presentation contains a carefully selected collection of new results on variational hemivariational inequalities with or without unilateral constraints A wide spectrum of static quasistatic dynamic contact problems for elastic viscoelastic and viscoplastic materials illustrates the applicability of these theoretical results Written for mathematicians applied mathematicians engineers and scientists this book is also a valuable tool for graduate students and researchers in nonlinear analysis mathematical modelling mechanics of solids and contact mechanics New to the second edition Convergence and well posedness results for elliptic and history dependent variational hemivariational inequalities Existence results on various optimal control problems with applications in solid and contact mechanics Existence uniqueness and stability results for evolutionary and differential variational hemivariational inequalities with unilateral constraints Modelling and analysis of static and quasistatic contact problems for elastic and viscoelastic materials with looking effect Modelling and analysis of viscoelastic and viscoplastic dynamic contact problems with unilateral constraints **Surrogate**

Modeling For High-frequency Design: Recent Advances Slawomir Koziel, Anna Pietrenko-dabrowska, 2022-03-04

Contemporary high frequency engineering design heavily relies on full wave electromagnetic EM analysis This is primarily due to its versatility and ability to account for phenomena that are important from the point of view of system performance Unfortunately versatility comes at the price of a high computational cost of accurate evaluation Consequently utilization of simulation models in the design processes is challenging although highly desirable The aforementioned problems can be alleviated by means of surrogate modeling techniques the most popular of which are data driven models Although a large variety of methods are available they are all affected by the curse of dimensionality This is especially pronounced in high

frequency electronics where typical system responses are highly nonlinear Construction of practically useful surrogates covering wide ranges of parameters and operating conditions is a considerable challenge Surrogate Modeling for High Frequency Design presents a selection of works representing recent advancements in surrogate modeling and their applications to high frequency design Some chapters provide a review of specific topics such as neural network modeling of microwave components while others describe recent attempts to improve existing modeling methodologies Furthermore the book features numerous applications of surrogate modeling methodologies to design optimization and uncertainty quantification of antenna microwave and analog RF circuits

Advances in Computational Methods and Modeling for Science and Engineering Hari M Srivastava, Geeta Arora, Firdous Shah, 2025-02-04 Advances in Computational Methods and Modelling in Science and Engineering explores the application of computational techniques and modeling approaches in science and engineering providing practical knowledge and skills for tackling complex problems using numerical simulations and data analysis This book addresses the need for a cohesive and up to date resource in the rapidly evolving field of computational methods It consolidates diverse topics serving as a one stop guide for individuals seeking a comprehensive understanding of the subject matter Sections focus on mathematical techniques that provide global solutions for models arising in engineering and scientific research applications by considering their long term benefits The mathematical treatment of these models is very helpful in understanding these models and their real world applications The methods and modeling techniques presented are useful for mathematicians engineers scientists and researchers working on the mathematical treatment of models in a wide range of applications including disciplines such as engineering physics chemistry computer science and applied mathematics Provides comprehensive coverage of computational methods and modeling techniques applicable to science and engineering Emphasizes practical application by providing real world examples Offers practical guidance and step by step examples to help readers overcome challenges related to implementing algorithms interpreting results and effectively applying computational methods in their work

Proceedings of the Fifth SIAM International Conference on Data Mining Hillol Kargupta, 2005-04-01 The Fifth SIAM International Conference on Data Mining continues the tradition of providing an open forum for the presentation and discussion of innovative algorithms as well as novel applications of data mining Advances in information technology and data collection methods have led to the availability of large data sets in commercial enterprises and in a wide variety of scientific and engineering disciplines The field of data mining draws upon extensive work in areas such as statistics machine learning pattern recognition databases and high performance computing to discover interesting and previously unknown information in data This conference results in data mining including applications algorithms software and systems

Bayesian Optimization Roman Garnett, 2023-02-09 Bayesian optimization is a methodology for optimizing expensive objective functions that has proven success in the sciences engineering and beyond This timely text provides a self contained and comprehensive introduction to

the subject starting from scratch and carefully developing all the key ideas along the way This bottom up approach illuminates unifying themes in the design of Bayesian optimization algorithms and builds a solid theoretical foundation for approaching novel situations The core of the book is divided into three main parts covering theoretical and practical aspects of Gaussian process modeling the Bayesian approach to sequential decision making and the realization and computation of practical and effective optimization policies Following this foundational material the book provides an overview of theoretical convergence results a survey of notable extensions a comprehensive history of Bayesian optimization and an extensive annotated bibliography of applications

Optimization and Applications Milojica Jaćimović, Michael Khachay, Vlasta Malkova, Mikhail Posypkin, 2020-01-08 This book constitutes the refereed proceedings of the 10th International Conference on Optimization and Applications OPTIMA 2019 held in Petrovac Montenegro in September October 2019 The 35 revised full papers presented were carefully reviewed and selected from 117 submissions The papers cover such topics as optimization operations research optimal control game theory and their numerous applications in practical problems of operations research data analysis and software development

Handbook of Parallel Computing and Statistics Erricos John Kontoghiorghes, 2005-12-21 Technological improvements continue to push back the frontier of processor speed in modern computers Unfortunately the computational intensity demanded by modern research problems grows even faster Parallel computing has emerged as the most successful bridge to this computational gap and many popular solutions have emerged based on its concepts

Recent Developments in Biologically Inspired Computing Leandro N. De Castro, Fernando J. Von Zuben, 2005-01-01 Recent Developments in Biologically Inspired Computing is necessary reading for undergraduate and graduate students and researchers interested in knowing the most recent advances in problem solving techniques inspired by nature This book covers the most relevant areas in computational intelligence including evolutionary algorithms artificial neural networks artificial immune systems and swarm systems It also brings together novel and philosophical trends in the exciting fields of artificial life and robotics This book has the advantage of covering a large number of computational approaches presenting the state of the art before entering into the details of specific extensions and new developments Pseudocodes flow charts and examples of applications are provided so as to help newcomers and mature researchers to get the point of the new approaches presented

Metaheuristics for Big Data Clarisse Dhaenens, Laetitia Jourdan, 2016-08-29 Big Data is a new field with many technological challenges to be understood in order to use it to its full potential These challenges arise at all stages of working with Big Data beginning with data generation and acquisition The storage and management phase presents two critical challenges infrastructure for storage and transportation and conceptual models Finally to extract meaning from Big Data requires complex analysis Here the authors propose using metaheuristics as a solution to these challenges they are first able to deal with large size problems and secondly flexible and therefore easily adaptable to different types of data and different contexts The use of metaheuristics to overcome some of these data mining

challenges is introduced and justified in the first part of the book alongside a specific protocol for the performance evaluation of algorithms. An introduction to metaheuristics follows. The second part of the book details a number of data mining tasks including clustering, association rules, supervised classification, and feature selection, before explaining how metaheuristics can be used to deal with them. This book is designed to be self-contained so that readers can understand all of the concepts discussed within it and to provide an overview of recent applications of metaheuristics to knowledge discovery problems in the context of Big Data.

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