

Parametric Optimization of Linear and Non-Linear Models via Parallel Computing to Enhance Web-Spatial DSS Interactivity

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ABSTRACT

A web based Spatial Decision Support System (web SDSS) has been implemented in Thessaly, the most significant arable cropping region in Greece, to evaluate selected energy crop supply. The web SDSS uses an optimization module to support the decision process launching mathematical programming (MP) profit maximizing farm models. Energy to biomass raw material cost is provided in supply curve form incorporating physical land suitability for crops, farm structure, and Common Agricultural Policy (CAP) scenarios. To generate biomass supply curves, the optimization problem is parametrically solved for a number of steps within a price range determined by the user. The more advanced technique used to solve the MP model, the higher the delay of response to the user. In this paper, the authors examine how effectively the web SDSS response time can be reduced to the user requests using parallel solving of the corresponding optimization problem. The results are encouraging, as the total solution time drops significantly as the problem's size increases, improving the users' experience even when the underlying optimization models use advanced, time demanding modeling techniques. These statements are illustrated by comparing lp and non-lp agricultural sector models.

Keywords: *Common Agricultural Policy (CAP), Farm Model, Parallel Programming, Positive Mathematical Programming (MP), Spatial Decision Support Systems (SDSS)*

INTRODUCTION

The progress in Web-based decision support technologies has been recently described by

Bhargava et al. (2007) who distinguish between model-driven and data-driven decision support system (DSS) to provide an impressive list of systems for decision support using the web as a medium (stand-alone commercial applications) or as a computer (web-DSS). Most applications

DOI: 10.4018/jdsst.2012010102

Non Linear Parametric Optimization

Fred Glover



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Pareto Optimality, Game Theory and Equilibria Panos M. Pardalos, A. Migdalas, Leonidas Pitsoulis, 2008-07-02 This comprehensive work examines important recent developments and modern applications in the fields of optimization control game theory and equilibrium programming In particular the concepts of equilibrium and optimality are of immense practical importance affecting decision making problems regarding policy and strategies and in understanding and predicting systems in different application domains ranging from economics and engineering to military applications The book consists of 29 survey chapters written by distinguished researchers in the above areas **Encyclopedia of Operations Research and Management Science** Saul I. Gass, Carl M. Harris, 2001 Audience Anyone concerned with the science techniques and ideas of how decisions are made BOOK JACKET **Parametric Optimization of a Range of Nonlinear Dynamic Systems** M. V. Trigub, 1992 *Encyclopedia of Optimization* Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling **Mathematical Programming with Data Perturbations** Anthony V. Fiacco, 2020-09-23 Presents research contributions and tutorial expositions on current methodologies for sensitivity stability and approximation analyses of mathematical programming and related problem structures involving parameters The text features up to date findings on important topics covering such areas as the effect of perturbations on the performance of algorithms approximation techniques for optimal control problems and global error bounds for convex inequalities Structural Induction on Partial Algebras, II H. Reichel, 2022-10-24 No detailed description available for Structural Induction on Partial Algebras II

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Uncertainty Vassilis M. Charitopoulos, 2020-02-05 This book introduces models and methodologies that can be employed towards making the Industry 4.0 vision a reality within the process industries and at the same time investigates the impact of uncertainties in such highly integrated settings. Advances in computing power along with the widespread availability of data have led process industries to consider a new paradigm for automated and more efficient operations. The book presents a theoretically proven optimal solution to multi-parametric linear and mixed integer linear programs and efficient solutions to problems such as process scheduling and design under global uncertainty. It also proposes a systematic framework for the uncertainty-aware integration of planning, scheduling and control based on the judicious coupling of reactive and proactive methods. Using these developments, the book demonstrates how the integration of different decision-making layers and their simultaneous optimisation can enhance industrial process operations and their economic resilience in the face of uncertainty.

Computing and Combinatorics Ding-Zhu Du, Zhenhua Duan, Cong Tian, 2019-07-24 This book constitutes the proceedings of the 25th International Conference on Computing and Combinatorics COCOON 2019 held in Xi'an, China, in July 2019. The 55 papers presented in this volume were carefully reviewed and selected from 124 submissions. The papers cover various topics including algorithm design, approximation, algorithm graph theory, complexity theory, problem solving, optimization, computational biology, computational learning, communication network logic and game theory. Basic Concepts of

Nonlinear Optimization Oliver Stein, 2024-09-16 This textbook is an introduction to nonlinear optimization which treats mathematical concepts stringently on the one hand but also motivates them in great detail and illustrates them with 42 figures. Therefore, the book is not only aimed at mathematicians but also at natural scientists, engineers and economists who want to understand and apply mathematically sound methods in their field. With just over two hundred pages, the book offers sufficient flexibility to serve as a foundation for various types of lectures on nonlinear optimization. Many geometric approaches for understanding both optimality conditions and numerical methods introduce a new perspective, enriching the existing literature on optimization. This is particularly evident in the detailed treatment of issues arising from different functional descriptions of the same geometry of feasible sets and the thus motivated introduction of constraint qualifications for deriving derivative-based optimality conditions. This book is the English translation of the second edition of *Grundzüge der Nichtlinearen Optimierung* Springer 2021, written in German. The translation was done with the help of artificial intelligence. A subsequent revision was performed by the author to further refine the work and to ensure that the translation is appropriate concerning content and scientific correctness. It may, however, read stylistically different from a conventional translation. Mathematical Programming Study, 1984 1994 IEEE Decision & Control, 1994 *Survey of Mathematical Programming* András Prékopa, 1979 **Mongolian Mathematical Journal**, 2003 **Communications on Applied Nonlinear Analysis**, 2003

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