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this book presents the latest trends and developments in multimodal optimization and niching techniques most existing optimization methods are designed for locating a single global solution however in real world settings many problems are multimodal by nature i e multiple satisfactory solutions exist it may be desirable to locate several such solutions before deciding which one to use multimodal optimization has been the subject of intense study in the field of population based meta heuristic algorithms e g evolutionary algorithms eas for the past few decades these multimodal optimization techniques are commonly referred to as niching methods because of the nature inspired niching effect that is induced to the solution population targeting at multiple optima many niching methods have been developed in the ea community some classic examples include crowding fitness sharing clearing derating restricted tournament selection speciation etc nevertheless applying these niching methods to real world multimodal problems often encounters significant challenges to facilitate the advance of niching methods in facing these challenges this edited book highlights the latest developments in niching methods the included chapters touch on algorithmic improvements and developments representation and visualization issues as well as new research directions such as preference incorporation in decision making and new application areas this edited book is a first of this kind specifically on the topic of niching techniques this book will serve as a valuable reference book both for researchers and practitioners although chapters are written in a mutually independent way chapter 1 will help novice readers get an overview of the field it describes the development of the field and its current state and provides a comparative analysis of the iee cec and acm gecco niching competitions of recent years followed by a collection of open research questions and possible research directions that may be tackled in the future

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numerical algorithms for efficiently solving optimal control problems are important for commonly used advanced control strategies such as model predictive control mpc but can also be useful for advanced estimation techniques such as moving horizon estimation mhe in mpc the control input is computed by solving a constrained finite time optimal control cftoc problem on line and in mhe the estimated states are obtained by solving an optimization problem that often can be formulated as a cftoc problem common types of optimization methods for solving cftoc problems are interior point ip methods sequential quadratic programming sqp methods and active set as methods in these types of methods the main computational effort is often the computation of the second order search directions this boils down to solving a sequence of systems of equations that correspond to unconstrained finite time optimal control uftoc problems hence high performing second order methods for cftoc problems rely on efficient numerical algorithms for solving uftoc problems developing such algorithms is one of the main focuses in this thesis when the solution to a cftoc problem is computed using an as type method the aforementioned system of equations is only changed by a low rank modification between two as iterations in this thesis it is shown how to exploit these structured modifications while still exploiting structure in the uftoc problem using the riccati recursion furthermore direct non iterative parallel algorithms for computing the search directions in ip sqp and as methods are proposed in the thesis these algorithms exploit and retain the sparse structure of the uftoc problem such that no dense system of equations needs to be solved serially as in many other algorithms the proposed algorithms can be applied recursively to obtain logarithmic computational complexity growth in the prediction horizon length for the case with linear mpc problems an alternative approach to solving the cftoc problem on line is to use multiparametric quadratic programming mpqp where the corresponding cftoc problem can be solved explicitly off line this is referred to as explicit mpc one of the main limitations with mpqp is the amount of memory that is required to store the parametric solution in this thesis an algorithm for

decreasing the required amount of memory is proposed the aim is to make mp qp and explicit mpc more useful in practical applications such as embedded systems with limited memory resources the proposed algorithm exploits the structure from the qp problem in the parametric solution in order to reduce the memory footprint of general mp qp solutions and in particular of explicit mpc solutions the algorithm can be used directly in mp qp solvers or as a post processing step to an existing solution

with the aim to sequentially determine optimal allocations across a set of assets online portfolio selection olps has significantly reshaped the financial investment landscape online portfolio selection principles and algorithms supplies a comprehensive survey of existing olps principles and presents a collection of innovative strategies that leverage machine learning techniques for financial investment the book presents four new algorithms based on machine learning techniques that were designed by the authors as well as a new back test system they developed for evaluating trading strategy effectiveness the book uses simulations with real market data to illustrate the trading strategies in action and to provide readers with the confidence to deploy the strategies themselves the book is presented in five sections that introduce olps and formulate olps as a sequential decision task present key olps principles including benchmarks follow the winner follow the loser pattern matching and meta learning detail four innovative olps algorithms based on cutting edge machine learning techniques provide a toolbox for evaluating the olps algorithms and present empirical studies comparing the proposed algorithms with the state of the art investigate possible future directions complete with a back test system that uses historical data to evaluate the performance of trading strategies as well as matlab code for the back test systems this book is an ideal resource for graduate students in finance computer science and statistics it is also suitable for researchers and engineers interested in computational investment readers are encouraged to visit the authors website for updates olps stevenhoi org

this volume contains peer reviewed papers presented at the international conference on numerical analysis and applied mathematics 2007 icnaam 2007 this conference brought together leading scientists of the international numerical and applied mathematics community more than 350 papers were submitted to be considered for presentation at icnaam 2007 from these submissions 189 papers were selected after an international peer review by at least two independent reviewers

a timely addition to the understanding of imt advanced this book places particular emphasis on the new areas which imt advanced technologies rely on compared with their predecessors these latest areas include radio resource management carrier

aggregation improved mimo support and relaying each technique is thoroughly described and illustrated before being surveyed in context of the lte advanced standards the book also presents state of the art information on the different aspects of the work of standardization bodies such as 3gpp and ieee making global links between them explores the latest research innovations to assess the future of the lte standard covers the latest research techniques for beyond 4g advanced such as coordinated multi point systems comp network coding device to device and spectrum sharing contains key information for researchers from academia and industry engineers regulators and decision makers working on lte advanced and beyond

providing clean water to earth's rapidly growing human population is one the major issues of the 21st century the climatic effects of global warming on water supply has made this a hot button issue

contents j m bony analyse microlocale des equations aux derivees partielles non lineaires g g grubb parabolic pseudo differential boundary problems and applications l h rmander quadratic hyperbolic operators h komatsu microlocal analysis in gevrey classes and in complex domains j sj strand microlocal analysis for the periodic magnetic schrödinger equation and related questions

the aim of the ifac conference control systems design was to bring together researchers and practitioners dealing with new theoretical and applied control engineering areas to report on current theoretical developments as well as applications in a variety of practical problems the conference addressed a wide interdisciplinary range of topics linear and non linear control adaptive and self tuning control robust control discrete event dynamic systems control predictive control intelligent control and manufacturing a large number of scientists and researchers in leading research institutions and universities from more than 25 countries participated in the conference and 110 papers were presented papers were organised within one plenary six regular two invited and four poster sessions covering the following fields linear and non linear control systems design predictive control systems design discrete event dynamic systems design robust control systems design control systems design applications a round table discussion with the title quo vadis control systems design allowed the attendees to join a broad discussion regarding the acceptance of new control methods in individual countries the ifac conference control systems design 2000 had a high professional level and has contributed to outlining the directions for further development of advanced control methods and their practice

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