

Altannar Chinchuluun
Panos M. Pardalos
Rentsen Enkhbat
Efstratios N. Pistikopoulos *Editors*

Optimization, Simulation, and Control

Optimization Simulation And Control Springer Optimization And Its Applications

H.B. Siguerdidjane, P. Bernhard



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Optimization, Simulation and Control Rentsen Enkhbat, Altannar Chinchuluun, Panos M. Pardalos, 2023-10-30 This volume gathers selected peer reviewed works presented at the 7th International Conference on Optimization Simulation and Control ICOSC 2022 held at the National University of Mongolia Ulaanbaatar June 20 22 2022 Topics covered include but are not limited to mathematical programming network global linear nonlinear parametric stochastic and multi objective optimization control theory biomathematics and deep and machine learning to name a few Held every three years since 2002 the ICOSC conference has become a traditional gathering for experienced and young researchers in optimization and control to share recent findings in these fields and discuss novel applications in myriad sectors Researchers and graduate students in the fields of mathematics engineering and computer science can greatly benefit from this book which can also be enjoyed by advanced practitioners in research laboratories and the industry The 2022 edition of the ICOSC conference was sponsored by the Mongolian Academy of Sciences the National University of Mongolia and the German Mongolian Institute for Resources and Technology

Optimization, Simulation, and Control Springer, 2012-11-26

Engineering Simulation and its Applications Xin-She Yang, 2024-02-01 Engineering Simulation and its Applications Algorithms and Numerical Methods covers the essential quantitative methods needed for engineering simulations introducing optimization techniques that can be used in the design of systems to minimize cost and maximize efficiency This book serves as a reference and textbook for courses such as engineering simulation design optimization mathematical modeling numerical methods data analysis and engineering management Diverse coverage of the various subject areas within the field puts the essential topics into a single book for easy access for graduates and senior undergraduates It also serves as a reference book for lecturers and industrial practitioners Introduces all essential algorithms and numerical methods Balances theory and numerical techniques Provides numerous worked examples

Process Modelling and Simulation César de Prada, Constantinos Pantelides, José Luis Pitarch, 2019-09-23 Since process models are nowadays ubiquitous in many applications the challenges and alternatives related to their development validation and efficient use have become more apparent In addition the massive amounts of both offline and online data available today open the door for new applications and solutions However transforming data into useful models and information in the context of the process industry or of bio systems requires specific approaches and considerations such as new modelling methodologies incorporating the complex stochastic hybrid and distributed nature of many processes in particular The same can be said about the tools and software environments used to describe code and solve such models for their further exploitation Going well beyond mere simulation tools these advanced tools offer a software suite built around the models facilitating tasks such as experiment design parameter estimation model initialization validation analysis size reduction discretization optimization distributed computation co simulation etc This Special Issue collects novel developments in these topics in order to address the challenges brought by the use of models in their different

facets and to reflect state of the art developments in methods tools and industrial applications Control Applications of Nonlinear Programming and Optimization 1989 H.B. Siguerdidjane,P. Bernhard,2014-07-04 These Proceedings provide valuable information on the exchange of ideas between scientists who apply nonlinear programming and optimization to real world control problems and those who develop new methods algorithms and software The papers deal with windshear problems optimization of aircraft and spacecraft trajectories optimal control for robots the optimization of urban traffic control general mechanical systems multilevel inventory systems and robust control Stochastic Processes Kaddour Najim,Enso Ikonen,Ait-Kadi Daoud,2004-07-01 A stochastic process is a random or conjectural process and this book is concerned with applied probability and statistics Whilst maintaining the mathematical rigour this subject requires it addresses topics of interest to engineers such as problems in modelling control reliability maintenance data analysis and engineering involvement with insurance This book deals with the tools and techniques used in the stochastic process estimation optimisation and recursive logarithms in a form accessible to engineers and which can also be applied to Matlab Amongst the themes covered in the chapters are mathematical expectation arising from increasing information patterns the estimation of probability distribution the treatment of distribution of real random phenomena in engineering economics biology and medicine etc and expectation maximisation The latter part of the book considers optimization algorithms which can be used for example to help in the better utilization of resources and stochastic approximation algorithms which can provide prototype models in many practical applications An engineering approach to applied probabilities and statistics Presents examples related to practical engineering applications such as reliability randomness and use of resources Readers with varying interests and mathematical backgrounds will find this book accessible Numerical Control: Part B Emmanuel Trélat,Enrique Zuazua,2023-02-20 Numerical Control Part B Volume 24 in the Handbook of Numerical Analysis series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Chapters in this volume include Control problems in the coefficients and the domain for linear elliptic equations Computational approaches for extremal geometric eigenvalue problems Non overlapping domain decomposition in space and time for PDE constrained optimal control problems on networks Feedback Control of Time dependent Nonlinear PDEs with Applications in Fluid Dynamics Stabilization of the Navier Stokes equations Theoretical and numerical aspects Reconstruction algorithms based on Carleman estimates and more Other sections cover Discrete time formulations as time discretization strategies in data assimilation Back and forth iterations Time reversal methods Unbalanced Optimal Transport from Theory to Numerics An ADMM Approach to the Exact and Approximate Controllability of Parabolic Equations Nonlocal balance laws an overview over recent results Numerics and control of conservation laws Numerical approaches for simulation and control of superconducting quantum circuits and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Handbook of Numerical Analysis series

Updated release includes the latest information on Numerical Control **Urban Energy Systems for Low-Carbon Cities** Ursula Eicker, 2018-11-30 With an increase of global energy demand arising in urban settlements the key challenges for the urban energy transition include analysis of energy efficiency options and the potential of renewable energy systems within the existing building stock making cities a key actor in the transition success In Urban Energy Systems for Low Carbon Cities indicators to evaluate urban energy performance are introduced and the status quo of monitoring and efficiency valuation schemes are discussed The book discusses advances on the state of the art of research in a number of key areas Energy demand and consumption mapping and monitoring Optimization of design and operation of urban supply and distribution systems Integration of renewable energy and urban energy network models Demand side management strategies to better match renewable supply and demand and increase flexibilities With innovative modelling methods this book gives a real bottom up modelling approach used for the simulation of energy consumption energy conversion systems and distribution networks using engineering methods Provides support and guidance on the energy transition issues relating to energy demand consumption mapping and monitoring Includes examples from case study cities including Vienna Geneva New York and Stuttgart Analyzes the potential of energy management strategies in urban areas Stochastic Programming Horand Gassmann, W. T. Ziemba, 2013 This book shows the breadth and depth of stochastic programming applications All the papers presented here involve optimization over the scenarios that represent possible future outcomes of the uncertainty problems The applications which were presented at the 12th International Conference on Stochastic Programming held in Halifax Nova Scotia in August 2010 span the rich field of uses of these models The finance papers discuss such diverse problems as longevity risk management of individual investors personal financial planning intertemporal surplus management asset management with benchmarks dynamic portfolio management fixed income immunization and racetrack betting The production and logistics papers discuss natural gas infrastructure design farming Atlantic salmon prevention of nuclear smuggling and sawmill planning The energy papers involve electricity production planning hydroelectric reservoir operations and power generation planning for liquid natural gas plants Finally two telecommunication papers discuss mobile network design and frequency assignment problems **Laser and Photonic Systems** Shimon Y. Nof, Andrew M. Weiner, Gary J. Cheng, 2014-05-12 New significant scientific discoveries in laser and photonic technologies systems perspectives and integrated design approaches can improve even further the impact in critical areas of challenge Yet this knowledge is dispersed across several disciplines and research arenas Laser and Photonic Systems Design and Integration brings together a multidisciplinary group of experts to increase understanding of the ways in which systems perspectives may influence laser and photonic innovations and application integration By bringing together chapters from leading scientists and technologists industrial and systems engineers and managers the book stimulates new thinking that would bring a systems network and system of systems perspective to bear on laser and photonic systems applications The chapters challenge you to explore

opportunities for revolutionary and broader advancements The authors emphasize the identification of emerging research and application frontiers where there are promising contributions to lasers optics and photonics applications in fields such as manufacturing healthcare security and communications The book contains insights from leading researchers inventors implementers and innovators It explains a variety of techniques models and technologies proven to work with laser and photonic systems their development design and integration Such systems are of growing interest to many organizations given their promise and potential solutions of grand societal challenges Lastly the book helps you leverage the knowledge into exciting new frontiers of successful solutions

Advanced Theoretical and Computational Methods for Complex Materials and Structures Francesco Tornabene, Rossana Dimitri, 2021-08-30 The broad use of composite materials and shell structural members with complex geometries in technologies related to various branches of engineering has gained increased attention from scientists and engineers for the development of even more refined approaches and investigation of their mechanical behavior It is well known that composite materials are able to provide higher values of strength stiffness and thermal properties together with conferring reduced weight which can affect the mechanical behavior of beams plates and shells in terms of static response vibrations and buckling loads At the same time enhanced structures made of composite materials can feature internal length scales and non local behaviors with great sensitivity to different stacking sequences ply orientations agglomeration of nanoparticles volume fractions of constituents and porosity levels among others In addition to fiber reinforced composites and laminates increased attention has been paid in literature to the study of innovative components such as functionally graded materials FGMs carbon nanotubes CNTs graphene nanoplatelets and smart constituents Some examples of smart applications involve large stroke smart actuators piezoelectric sensors shape memory alloys magnetostrictive and electrostrictive materials as well as auxetic components and angle tow laminates These constituents can be included in the lamination schemes of smart structures to control and monitor the vibrational behavior or the static deflection of several composites The development of advanced theoretical and computational models for composite materials and structures is a subject of active research and this is explored here for different complex systems including their static dynamic and buckling responses fracture mechanics at different scales the adhesion cohesion and delamination of materials and interfaces

The Oxford Handbook of Cognitive Engineering John D. Lee, Alex Kirlik, 2013-03-07 This handbook is the first to provide comprehensive coverage of original state of the science research analysis and design of integrated human technology systems

Systems Analysis and Simulation 1988, I: Theory and Foundations. Proceedings of the International Symposium held in Berlin (GDR), September 12-16, 1988 Achim Sydow, Spyros G. Tzafestas, Robert Vichnevetsky, 2022-01-19 No detailed description available for Systems Analysis and Simulation 1988 I Theory and Foundations Proceedings of the International Symposium held in Berlin GDR September 12 16 1988

Coupled Fluid Flow in Energy, Biology and Environmental Research Matthias Ehrhardt, 2012-03-31 Progress in Computational Physics

is a new e book series devoted to recent research trends in computational physics It contains chapters contributed by outstanding experts of modeling of physical problems The series focuses on interdisciplinary computational perspectives of current physical challenges new numerical techniques for the solution of mathematical wave equations and describes certain real world applications With the help of powerful computers and sophisticated methods of numerical mathematics it is possible to simulate many ultramodern devices e g photonic crystals structures semiconductor nanostructures or fuel cell stacks devices thus preventing expensive and longstanding design and optimization in the laboratories In this book series research manuscripts are shortened as single chapters and focus on one hot topic per volume Engineers physicists meteorologists etc and applied mathematicians can benefit from the series content Readers will get a deep and active insight into state of the art modeling and simulation techniques of ultra modern devices and problems The second volume of this series titled Coupled Fluid Flow in Energy Biology and Environmental Research covers the following scientific topics in the fields of modeling numerical methods and applications Coupling between free and porous media flow Coupling of flow and transport models Coupling of atmospheric and ground water models This second volume contains both the mathematical analysis of the coupling between fluid flow and porous media flow and state of the art numerical techniques like tailor made finite element and finite volume methods Finally readers will come across articles devoted to concrete applications of these models in the field of energy biology and environmental research

Research Anthology on Military and Defense Applications, Utilization, Education, and Ethics Management Association, Information Resources, 2021-05-28 Military technology is highly advanced in terms of technology being used in the field computer applications artificial intelligence and software applications These high performance technologies range from weapons to communications technology to automation in vehicles and weaponry These technologies must be both secure and reliable in harsh environments Research is being focused specifically on that including how military and defense applications operate what modern technologies are being used and the ethics surrounding these applications A holistic view of these applications is necessary for both understanding current military tactics and tools along with the future applications The Research Anthology on Military and Defense Applications Utilization Education and Ethics focuses specifically on military and defense operations expenditure technologies and tools and the ethics surrounding technologies like weaponry and artificial intelligence in the military The chapters cover a wide and diverse range of military and defense applications while providing crucial information on the functions security and reliability of these technologies Beyond an understanding of the applications themselves this book also focuses on military education surrounding these technologies and the ethics of usage to provide a well rounded understanding of research in the field This book is ideal for military consultants military personnel defense agencies national security agencies government officials defense personnel policymakers military educators and trainers stakeholders practitioners researchers academicians and students interested in the latest research in military and defense applications

Transdisciplinary Lifecycle Analysis of Systems R. Curran, N. Wognum, M. Borsato, 2015-07-15 Concurrent Engineering CE is based on the premise that different phases of a product's lifecycle should be conducted concurrently and initiated as early as possible within the Product Creation Process PCP. It has become the substantive basic methodology in many industries including automotive, aerospace, machinery, shipbuilding, consumer goods, process industry, and environmental engineering. CE aims to increase the efficiency of the PCP and reduce errors in later phases while incorporating considerations for full lifecycle and through life operations. This book presents the proceedings of the 22nd ISPE Inc International Society for Productivity Enhancement International Conference on Concurrent Engineering CE2015 entitled Transdisciplinary Lifecycle Analysis of Systems and held in Delft, the Netherlands, in July 2015. It is the second in the series *Advances in Transdisciplinary Engineering*. The book includes 63 peer-reviewed papers and 2 keynote speeches arranged in 10 sections: keynote speeches, systems engineering, customization and variability management, production-oriented design, maintenance and repair design, methods and knowledge-based engineering, multidisciplinary product management, sustainable product development, service-oriented design, product lifecycle management, and trends in CE. Containing papers ranging from the theoretical and conceptual to the highly pragmatic, this book will be of interest to all engineering professionals and practitioners, researchers, designers, and educators. **Applied mechanics reviews**, 1948

Advances in Non-Integer Order Calculus and Its Applications Agnieszka B. Malinowska, Dorota Mozyrska, Łukasz Sajewski, 2019-04-17 This book provides an overview of some recent findings in the theory and applications of non-integer order systems. Discussing topics ranging from the mathematical foundations to technical applications of continuous time and discrete time fractional calculus, it includes 22 original research papers and is subdivided into four parts: Mathematical Foundations, Approximation, Modeling, and Simulations, Fractional Systems Analysis, and Control Applications. The papers were selected from those presented at the 10th International Conference on Non-integer Order Calculus and its Applications, which was held at the Białystok University of Technology, Poland, September 20-21, 2018. Thanks to the broad spectrum of topics covered, the book is suitable for researchers from applied mathematics and engineering. It is also a valuable resource for graduate students as well as for scholars looking for new mathematical tools.

Advanced Fuzzy Systems Design and Applications Yaochu Jin, 2012-12-06 Fuzzy rule systems have found a wide range of applications in many fields of science and technology. Traditionally, fuzzy rules are generated from human expert knowledge or human heuristics for relatively simple systems. In the last few years, data-driven fuzzy rule generation has been very active. Compared to heuristic fuzzy rules, fuzzy rules generated from data are able to extract more profound knowledge for more complex systems. This book presents a number of approaches to the generation of fuzzy rules from data, ranging from the direct fuzzy inference based to neural networks and evolutionary algorithms based fuzzy rule generation. Besides the approximation accuracy, special attention has been paid to the interpretability of the extracted fuzzy rules. In other words, the fuzzy rules generated from data are supposed to be as comprehensible to human beings as those

generated from human heuristics To this end many aspects of interpretability of fuzzy systems have been discussed which must be taken into account in the data driven fuzzy rule generation In this way fuzzy rules generated from data are intelligible to human users and therefore knowledge about unknown systems can be extracted

Particle Swarm Optimisation Jun Sun,Choi-Hong Lai,Xiao-Jun Wu,2016-04-19 Although the particle swarm optimisation PSO algorithm requires relatively few parameters and is computationally simple and easy to implement it is not a globally convergent algorithm In Particle Swarm Optimisation Classical and Quantum Perspectives the authors introduce their concept of quantum behaved particles inspired by quantum mechanics which leads to the quantum behaved particle swarm optimisation QPSO algorithm This globally convergent algorithm has fewer parameters a faster convergence rate and stronger searchability for complex problems The book presents the concepts of optimisation problems as well as random search methods for optimisation before discussing the principles of the PSO algorithm Examples illustrate how the PSO algorithm solves optimisation problems The authors also analyse the reasons behind the shortcomings of the PSO algorithm Moving on to the QPSO algorithm the authors give a thorough overview of the literature on QPSO describe the fundamental model for the QPSO algorithm and explore applications of the algorithm to solve typical optimisation problems They also discuss some advanced theoretical topics including the behaviour of individual particles global convergence computational complexity convergence rate and parameter selection The text closes with coverage of several real world applications including inverse problems optimal design of digital filters economic dispatch problems biological multiple sequence alignment and image processing MATLAB Fortran and C source codes for the main algorithms are provided on an accompanying downloadable resources Helping you numerically solve optimisation problems this book focuses on the fundamental principles and applications of PSO and QPSO algorithms It not only explains how to use the algorithms but also covers advanced topics that establish the groundwork for understanding

Reviewing **Optimization Simulation And Control Springer Optimization And Its Applications**: Unlocking the Spellbinding Force of Linguistics

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