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Panos M. Pardalos (Eds.)**

**STOCHASTIC
OPTIMIZATION:
ALGORITHMS AND
APPLICATIONS**

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Stochastic Optimization Algorithms And Applications Applied Optimization Volume 54 Applied Optimization

**Bijaya Ketan Panigrahi, Munesh C.
Trivedi, Krishn K. Mishra, Shailesh
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Advances in Structural and Multidisciplinary Optimization Axel Schumacher, Thomas Vietor, Sierk Fiebig, Kai-Uwe Bletzinger, Kurt Maute, 2017-12-04 The volume includes papers from the WSCMO conference in Braunschweig 2017 presenting research of all aspects of the optimal design of structures as well as multidisciplinary design optimization where the involved disciplines deal with the analysis of solids fluids or other field problems Also presented are practical applications of optimization methods and the corresponding software development in all branches of technology

Advances in Soft Computing Lourdes Martínez-Villaseñor, Oscar Herrera-Alcántara, Hiram Ponce, Félix A. Castro-Espinoza, 2020-10-07 The two volume set LNAI 12468 and 12469 constitutes the proceedings of the 19th Mexican International Conference on Artificial Intelligence MICAI 2020 held in Mexico City Mexico in October 2020 The total of 77 papers presented in these two volumes was carefully reviewed and selected from 186 submissions The contributions are organized in topical as follows Part I machine and deep learning evolutionary and metaheuristic algorithms and soft computing Part II natural language processing image processing and pattern recognition and intelligent applications and robotics

Optimization in the Energy Industry Josef Kallrath, Panos M. Pardalos, Steffen Rebennack, Max Scheidt, 2008-12-25 This book offers a broad in depth overview that reflects the requirements possibilities and limits of mathematical optimization and especially stochastic optimization in the energy industry

Pattern Recognition Volker Roth, Thomas Vetter, 2017-09-06 This book constitutes the refereed proceedings of the 39th German Conference on Pattern Recognition GCPR 2017 held in Basel Switzerland in September 2017 The 33 revised full papers presented were carefully reviewed and selected from 60 submissions The papers are organized in topical sections on biomedical image processing and analysis classification and detection computational photography image and video processing machine learning and pattern recognition mathematical foundations statistical data analysis and models motion and segmentation pose face and gesture reconstruction and depth and tracking

Applied Optimization and Swarm Intelligence Eneko Osaba, Xin-She Yang, 2021-05-17 This book gravitates on the prominent theories and recent developments of swarm intelligence methods and their application in both synthetic and real world optimization problems The special interest will be placed in those algorithmic variants where biological processes observed in nature have underpinned the core operators underlying their search mechanisms In other words the book centers its attention on swarm intelligence and nature inspired methods for efficient optimization and problem solving The content of this book unleashes a great opportunity for researchers lecturers and practitioners interested in swarm intelligence optimization problems and artificial intelligence

Stochastic Programming RUSZCZYNSK, Alexander Shapiro, 2003-10-09 Brings together leading in the most important sub fields of stochastic programming to present a rigorous overview of basic models methods and applications of stochastic programming The text is intended for researchers students engineers and economists who encounter in their work optimization problems involving uncertainty

Education,

Research and Business Technologies Cristian Ciurea,Paul Pocatilu,Florin Gheorghe Filip,2023-01-01 This book includes high quality research papers presented at 21st International Conference on Informatics in Economy IE 2022 which is held in Bucharest Romania during May 2022 This book covers research results in business informatics and related computer science topics such as IoT mobile embedded and multimedia solutions e society enterprise and business solutions databases and big data artificial intelligence data mining and machine learning quantitative economics

Classical and Modern Optimization Techniques Applied to Control and Modeling Radu-Emil Precup,Raul-Cristian Roman,Elena-Lorena Hedrea,Alexandra-Iulia Szedlak-Stinean,Iuliu Alexandru Zamfirache,2025-03-25 The book presents a detailed and unified treatment of the theory and applications of optimization applied to control and modeling focusing on nature inspired optimization algorithms to optimally tune the parameters of linear and nonlinear controllers and models with emphasis on tower crane systems and other representative applications Classical and Modern Optimization Techniques Applied to Control and Modeling combines classical and modern approaches to optimization based on the authors experience in the field and presents in a unified structure the essential aspects of optimization in control and modeling from a control engineer s point of view It covers linear and nonlinear controllers and neural networks based on reinforcement learning are considered and analyzed because of the need to reduce the complexity of the controllers and their design so that they can be practical to implement as low cost automation solutions The chapters are designed to quickly make the concepts of optimization control reinforcement learning and neural networks understandable to readers with limited experience This book is intended for a broad audience including undergraduate and graduate students engineers designers practitioners and researchers and anyone facing challenging control problems

Artificial Intelligence and Accounting Manjit Kour,Daniel P. Schutte,2025-08-08 In the dynamic field of accounting where accuracy and productivity are critical artificial intelligence AI integration has become a game changer and AI is set to affect every industry With the speed at which technology is developing a thorough manual that helps readers understand the complex world of AI in accounting is desperately needed By offering a sophisticated grasp of how AI is changing the core ideas of accounting and financial management this book bridges this knowledge gap It explores the relationship between AI technology and accounting processes revealing the significant influence and unrealised potential outside of traditional bookkeeping This book delves into how AI is revolutionising accounting procedures It explores the newest AI technologies and their uses in financial data processing auditing compliance and forecasting ranging from machine learning to predictive analytics It ensures responsible AI integration by addressing biases accountability and transparency while emphasising ethical considerations This book provides case studies practical advice and examples from the real world guaranteeing that readers not only understand the theoretical foundations of AI in accounting but also get the knowledge necessary to apply and maximise these technologies within their professional domains by connecting theory and application It offers a road map for traversing the accounting industry s AI frontier from using predictive analytics to make well informed

decisions to automating repetitive activities This book will enable accountants auditors and financial analysts to prosper in the emerging AI driven world

Topics in Applied Analysis and Optimisation Michael Hintermüller, José Francisco Rodrigues, 2019-11-27 This volume comprises selected revised papers from the Joint CIM WIAS Workshop TAAO 2017 held in Lisbon Portugal in December 2017 The workshop brought together experts from research groups at the Weierstrass Institute in Berlin and mathematics centres in Portugal to present and discuss current scientific topics and to promote existing and future collaborations The papers include the following topics PDEs with applications to material sciences thermodynamics and laser dynamics scientific computing nonlinear optimization and stochastic analysis

Smart Innovations in Communication and Computational Sciences Bijaya Ketan Panigrahi, Munesh C. Trivedi, Krishn K. Mishra, Shailesh Tiwari, Pradeep Kumar Singh, 2018-06-18 The book provides insights into International Conference on Smart Innovations in Communications and Computational Sciences ICSICCS 2017 held at North West Group of Institutions Punjab India It presents new advances and research results in the fields of computer and communication written by leading researchers engineers and scientists in the domain of interest from around the world The book includes research work in all the areas of smart innovation systems and technologies embedded knowledge and intelligence innovation and sustainability advance computing networking and informatics It also focuses on the knowledge transfer methodologies and innovation strategies employed to make this happen effectively The combination of intelligent systems tools and a broad range of applications introduce a need for a synergy of disciplines from science and technology Sample areas include but are not limited to smart hardware software design smart smart computing technologies intelligent communications and networking web and informatics and computational sciences

Benchmarks and Hybrid Algorithms in Optimization and Applications Xin-She Yang, 2023-08-21 This book is specially focused on the latest developments and findings on hybrid algorithms and benchmarks in optimization and their applications in sciences engineering and industries The book also provides some comprehensive reviews and surveys on implementations and coding aspects of benchmarks The book is useful for Ph D students and researchers with a wide experience in the subject areas and also good reference for practitioners from academia and industrial applications

Optimal Device Design A. F. J. Levi, Stephan Haas, 2010 Dramatic advances in the control of physical systems at the atomic scale have provided many new ways to manufacture devices An important question is how best to design these ultra small complex systems Access to vast amounts of inexpensive computing power makes it possible to accurately simulate their physical properties Furthermore high performance computers allow us to explore the large number of degrees of freedom with which to construct new device configurations This book aims to lay the groundwork for a methodology to exploit these emerging capabilities using optimal device design By combining applied mathematics smart computation physical modeling and 21st century engineering and fabrication tools it is possible to find atomic and nano scale configurations that result in components with performance characteristics that have not been achieved using

other methods Provided by publisher **Big Data, IoT, and Machine Learning** Rashmi Agrawal, Marcin Paprzycki, Neha Gupta, 2020-07-29 The idea behind this book is to simplify the journey of aspiring readers and researchers to understand Big Data IoT and Machine Learning It also includes various real time offline applications and case studies in the fields of engineering computer science information security and cloud computing using modern tools This book consists of two sections Section I contains the topics related to Applications of Machine Learning and Section II addresses issues about Big Data the Cloud and the Internet of Things This brings all the related technologies into a single source so that undergraduate and postgraduate students researchers academicians and people in industry can easily understand them Features Addresses the complete data science technologies workflow Explores basic and high level concepts and services as a manual for those in the industry and at the same time can help beginners to understand both basic and advanced aspects of machine learning Covers data processing and security solutions in IoT and Big Data applications Offers adaptive robust scalable and reliable applications to develop solutions for day to day problems Presents security issues and data migration techniques of NoSQL databases **Applied Optimization in the Petroleum Industry** Hesham K. Alfares, 2023-07-07 The book addresses optimization in the petroleum industry from a practical large scale application oriented point of view The models and techniques presented help to optimize the limited resources in the industry in order to maximize economic benefits ensure operational safety and reduce environmental impact The book discusses several important real life applications of optimization in the petroleum industry ranging from the scheduling of personnel time to the blending of gasoline It covers a wide spectrum of relevant activities including drilling producing maintenance and distribution The text begins with an introductory overview of the petroleum industry and then of optimization models and techniques The main body of the book details a variety of applications of optimization models and techniques within the petroleum industry Applied Optimization in the Petroleum Industry helps readers to find effective optimization based solutions to their own practical problems in a large and important industrial sector still the main source of the world s energy and the source of raw materials for a wide variety of industrial and consumer products Swarm Intelligence Abhishek Sharma, Abhinav Sharma, Jitendra Kumar Pandey, Mangey Ram, 2022-02-08 Swarm intelligence is one of the fastest growing subfields of artificial intelligence and soft computing This field includes multiple optimization algorithms to solve NP hard problems for which conventional methods are not effective It inspires researchers in engineering sciences to learn theories from nature and incorporate them Swarm Intelligence Foundation Principles and Engineering Applications provides a comprehensive review of new swarm intelligence techniques and offers practical implementation of Particle Swarm Optimization PSO with MATLAB code The book discusses the statistical analysis of swarm optimization techniques so that researchers can analyse their experiment design It also includes algorithms in social sectors oil and gas industries and recent research findings of new optimization algorithms in the field of engineering describing the implementation in machine learning This book is written for students of engineering

research scientists and academicians involved in the engineering sciences *Advances in Applied Strategic Mine Planning* Roussos Dimitrakopoulos, 2018-01-17 This book presents a collection of papers on topics in the field of strategic mine planning including orebody modeling mine planning optimization and the optimization of mining complexes Elaborating on the state of the art in the field it describes the latest technologies and related research as well as the applications of a range of related technologies in diverse industrial contexts Proceedings of Second Doctoral Symposium on Computational Intelligence Deepak Gupta, Ashish Khanna, Vineet Kansal, Giancarlo Fortino, Aboul Ella Hassanien, 2021-09-19 This book features high quality research papers presented at Second Doctoral Symposium on Computational Intelligence DoSCI 2021 organized by Institute of Engineering and Technology IET AKTU Lucknow India on 6 March 2021 This book discusses the topics such as computational intelligence artificial intelligence deep learning evolutionary algorithms swarm intelligence fuzzy sets and vague sets rough set theoretic approaches quantum inspired computational intelligence hybrid computational intelligence machine learning computer vision soft computing distributed computing parallel and grid computing cloud computing high performance computing biomedical computing decision support and decision making **Stochastic Optimization** Stanislav Uryasev, Panos M. Pardalos, 2013-03-09 Stochastic programming is the study of procedures for decision making under the presence of uncertainties and risks Stochastic programming approaches have been successfully used in a number of areas such as energy and production planning telecommunications and transportation Recently the practical experience gained in stochastic programming has been expanded to a much larger spectrum of applications including financial modeling risk management and probabilistic risk analysis Major topics in this volume include 1 advances in theory and implementation of stochastic programming algorithms 2 sensitivity analysis of stochastic systems 3 stochastic programming applications and other related topics Audience Researchers and academics working in optimization computer modeling operations research and financial engineering The book is appropriate as supplementary reading in courses on optimization and financial engineering **Stochastic Multi-Stage Optimization** Pierre Carpentier, Jean-Philippe Chancelier, Guy Cohen, Michel De Lara, 2015-05-05 The focus of the present volume is stochastic optimization of dynamical systems in discrete time where by concentrating on the role of information regarding optimization problems it discusses the related discretization issues There is a growing need to tackle uncertainty in applications of optimization For example the massive introduction of renewable energies in power systems challenges traditional ways to manage them This book lays out basic and advanced tools to handle and numerically solve such problems and thereby is building a bridge between Stochastic Programming and Stochastic Control It is intended for graduates readers and scholars in optimization or stochastic control as well as engineers with a background in applied mathematics

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