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A Hands-On Introduction to
Modeling with the Optimization
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Decision Optimization with IBM ILOG CPLEX Optimization Studio Stefan Nickel, Claudius Steinhardt, Hans Schlenker, Wolfgang Burkart, 2022-08-01 This textbook offers a comprehensive up to date introduction to the Optimization Programming Language OPL Embedded in the IBM ILOG CPLEX Optimization Studio with its solver engine CPLEX OPL has been popular for years not only for academic and scientific purposes but also among practitioners who need to model and solve large scale real world business optimization problems The book covers the recent features of the software and includes ten consecutive tutorials each with additional exercises as well as several comprehensive application studies The book is specifically designed for advanced undergraduate and graduate courses in e g management science operations research computer science mathematics mathematical economics and industrial engineering It can also serve as self study material for practitioners whose work involves the modeling and optimization of planning and decision problems and who need a sound introduction to the software Solutions to the exercises as well as the source codes from the textbook are available for download weblink included

Machine Learning and Knowledge Discovery in Databases Peter A. Flach, Tijn De Bie, Nello Cristianini, 2012-09-11 This two volume set LNAI 7523 and LNAI 7524 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2012 held in Bristol UK in September 2012 The 105 revised research papers presented together with 5 invited talks were carefully reviewed and selected from 443 submissions The final sections of the proceedings are devoted to Demo and Nectar papers The Demo track includes 10 papers from 19 submissions and the Nectar track includes 4 papers from 14 submissions The papers grouped in topical sections on association rules and frequent patterns Bayesian learning and graphical models classification dimensionality reduction feature selection and extraction distance based methods and kernels ensemble methods graph and tree mining large scale distributed and parallel mining and learning multi relational mining and learning multi task learning natural language processing online learning and data streams privacy and security rankings and recommendations reinforcement learning and planning rule mining and subgroup discovery semi supervised and transductive learning sensor data sequence and string mining social network mining spatial and geographical data mining statistical methods and evaluation time series and temporal data mining and transfer learning

Julia Programming for Operations Research Changhyun Kwon, 2019-03-03 Last Updated December 2020 Based on Julia v1.3 and JuMP v0.21 The main motivation of writing this book was to help the author himself He is a professor in the field of operations research and his daily activities involve building models of mathematical optimization developing algorithms for solving the problems implementing those algorithms using computer programming languages experimenting with data etc Three languages are involved human language mathematical language and computer language His team of students need to go over three different languages which requires translation among the three languages As this book was written to teach his research group how to translate

this book will also be useful for anyone who needs to learn how to translate in a similar situation The Julia Language is as fast as C as convenient as MATLAB and as general as Python with a flexible algebraic modeling language for mathematical optimization problems With the great support from Julia developers especially the developers of the JuMP Julia for Mathematical Programming package Julia makes a perfect tool for students and professionals in operations research and related areas such as industrial engineering management science transportation engineering economics and regional science For more information visit <http://www.chkwon.net/julia>

Smart Spaces and Next Generation Wired/Wireless

Networking Sergey Balandin, Yevgeni Koucheryavy, Honglin Hu, 2011-08-05 This book constitutes the refereed proceedings of the 11th International Conference on Next Generation Teletraffic and Wired Wireless Advanced Networking NEW2AN 2011 and the 4th Conference on Smart Spaces ruSMART 2011 jointly held in St Petersburg Russia in August 2011 The 56 revised full papers presented were carefully reviewed and selected from numerous submissions The ruSMART papers are organized in topical sections on role of context in smart spaces smart spaces platforms and smart M3 methods for studying smart spaces and smart spaces solutions The NEW2AN papers are organized in topical sections on wireless PHY and power control ad hoc networks WSN special topics simulation fundamental analysis I traffic modeling and measurement simulation fundamental analysis II network performance and QoS cooperative P2P overlay networks and content applications and services API and software and video

Modeling, Simulation and Optimization of Complex Processes HPSC 2018

Hans Georg Bock, Willi Jäger, Ekaterina Kostina, Hoang Xuan Phu, 2020-12-01 This proceedings volume highlights a selection of papers presented at the 7th International Conference on High Performance Scientific Computing which took place in Hanoi Vietnam during March 19-23 2018 The conference has been organized by the Institute of Mathematics of the Vietnam Academy of Science and Technology the Interdisciplinary Center for Scientific Computing IWR of Heidelberg University and the Vietnam Institute for Advanced Study in Mathematics The contributions cover a broad interdisciplinary spectrum of scientific computing and showcase recent advances in theory methods and practical applications Subjects covered include numerical simulation methods for optimization and control machine learning parallel computing and software development as well as the applications of scientific computing in mechanical engineering aerospace engineering environmental physics decision making hydrogeology material science and electric circuits

How to Solve Real-world Optimization Problems

Eugene J. Zak, 2024-03-01 Written by an experienced operations research practitioner with a strong applied mathematics background this book offers practical insights into how to approach optimization problems how to develop intelligent and efficient mathematical models and algorithms and how to implement and deliver software products to customers With a focus on revealing the similarities and differences between academia and industry in mathematical modeling the book provides useful tips and advice based on the author's extensive experience as a principal developer working to solve real world optimization problems for several major high tech companies The book offers valuable food for thought for researchers and

practical guidance for graduate students preparing for their future projects in the industry It is also an essential resource for practitioners working in the industrial business and service sectors *Nature of Computation and Communication* Phan Cong Vinh, Leonard Barolli, 2016-10-25 This book constitutes the post conference proceedings of the Second International Conference on Nature of Computation and Communication ICTCC 2016 held in March 2016 in Rach Gia Vietnam The 36 revised full papers presented were carefully reviewed and selected from over 100 submissions The papers cover formal methods for self adaptive systems and discuss natural approaches and techniques for computation and communication

Modular Systems for Energy Usage Management Yatish T. Shah, 2020-01-22 a very unique book that integrates benefits of modular systems for enhanced sustainability to meet the global challenges of rapid and sometimes uncontrolled industrialization in the 21st century Pinakin Patel T2M Global This book examines the role of the modular approach for the back end of the energy industry energy usage management It outlines the use of modular approaches for the processes used to improve energy conservation and efficiency which are preludes to the prudent use of energy Since energy consumption is conventionally broken down into four sectors residential transportation industrial and commercial the discussions on energy usage management are also broken down into these four sectors in the book The book examines the use of modular systems for five application areas that cover the sectors described above buildings vehicles computers and electrical electronic products district heating and wastewater treatment and desalination This book also discusses the use of a modular approach for energy storage and transportation Finally it describes how the modular approach facilitates bottom up top down and hybrid simulation and modeling of the energy systems from various scientific and socioeconomic perspectives Aimed at industry professionals and researchers involved in the energy industry this book illustrates in detail with the help of concrete industrial examples how a modular approach can facilitate management of energy usage **Principles and Practice of**

Constraint Programming J. Christopher Beck, 2017-08-22 This book constitutes the refereed conference proceedings of the 23rd International Conference on Principles and Practice of Constraint Programming CP 2017 held in Melbourne Australia from August 28 2017 until September 1 2017 The conference is colocated with the 20th International Conference on Theory and Applications of Satisfiability Testing SAT 2017 and the 33rd International Conference on Logic Programming The 46 revised full papers presented were carefully reviewed and selected from 115 submissions The scope of the contributions includes all aspects of computing with constraints including theory algorithms environments languages models systems and applications such as decision making resource allocation scheduling configuration and planning The papers are grouped into the following tracks technical track application track machine learning operations research satisfiability journal sister conference track *Network Optimization* Julia Pahl, Torsten Reiners, Stefan Voß, 2011-09-15 This book constitutes the refereed proceedings of the 5th International Conference on Network Optimization INOC 2011 held in Hamburg Germany in June 2011 The 65 revised full papers presented were carefully reviewed and selected from numerous submissions The papers

highlight recent developments in network optimization and are organized in the following topical sections theoretical problems uncertainty graph theory and network design network flows routing and transportation and further optimization problems and applications energy oriented network design telecom applications location maritime shipping and graph theory

Innovative Intelligent Industrial Production and Logistics Michele Dassisti, Kurosh Madani, Hervé Panetto, 2025-02-13 This two volume set CCIS 2372 2373 constitutes the proceedings of the 5th International Conference on Innovative Intelligent Industrial Production and Logistics IN4PL 2024 held in Porto Portugal during November 21 22 2024 The total of 15 full papers along with 38 short papers presented together in this book was carefully reviewed and selected from 76 submissions This conference focuses on research and development involving innovative methods software and hardware whereby intelligent systems are applied to industrial production and logistics This is currently related to the concept of industry 5.0 an expression the new wave that extends the trend towards automation and data exchange in manufacturing technologies and processes including cyber physical systems the industrial internet of things industrial robotics cloud computing cognitive computing and artificial intelligence towards the new role of human resources cooperating with these technologies

Model-Based Optimization for Petroleum Refinery Configuration Design Cheng Seong Khor, 2024-01-03 Model Based Optimization for Petroleum Refinery Configuration Design An accessible easy to read introduction to the methods of mixed integer optimization with practical applications real world operational data and case studies Interest in model based approaches for optimizing the design of petroleum refineries has increased throughout the industry in recent years Mathematical optimization based on mixed integer programming has brought about the superstructure optimization method for synthesizing petroleum refinery configurations from multiple topological alternatives Model Based Optimization for Petroleum Refinery Configuration Design presents a detailed introduction to the use of mathematical optimization to solve both linear and nonlinear problems in the refining industry The book opens with an overview of petroleum refining processes basic concepts in mathematical programming and applications of mathematical programming for refinery optimization Subsequent chapters address superstructure representations of topological alternatives mathematical formulation solution strategies and various modeling frameworks Practical case studies demonstrate refinery configuration design refinery retrofitting and real world issues and considerations Presents linear nonlinear and mixed integer programming approaches applicable to both new and existing petroleum refineries Highlights the benefits of model based solutions to refinery configuration design problems Features detailed case studies of the development and implementation of optimization models Discusses economic considerations of heavy oil processing including cash flow analysis of refinery costs and return on capital Includes numerical examples based on real world operational data and various commercial technologies Model Based Optimization for Petroleum Refinery Configuration Design is an invaluable resource for researchers chemical engineers process and energy engineers other refining professionals and advanced chemical engineering students **Linear and**

Mixed Integer Programming for Portfolio Optimization Renata Mansini,Włodzimierz Ogryczak,M. Grazia Speranza,2015-06-10 This book presents solutions to the general problem of single period portfolio optimization It introduces different linear models arising from different performance measures and the mixed integer linear models resulting from the introduction of real features Other linear models such as models for portfolio rebalancing and index tracking are also covered The book discusses computational issues and provides a theoretical framework including the concepts of risk averse preferences stochastic dominance and coherent risk measures The material is presented in a style that requires no background in finance or in portfolio optimization some experience in linear and mixed integer models however is required The book is thoroughly didactic supplementing the concepts with comments and illustrative examples *Artificial Intelligence in Education* Elisabeth André,Ryan Baker,Xiangen Hu,Ma. Mercedes T. Rodrigo,Benedict du Boulay,2017-06-22 This book constitutes the refereed proceedings of the 18th International Conference on Artificial Intelligence in Education AIED 2017 held in Wuhan China in June July 2017 The 36 revised full papers presented together with 4 keynotes 37 poster presentations 4 doctoral consortium papers 5 industry papers 4 workshop abstracts and 2 tutorial abstracts were carefully reviewed and selected from 159 submissions The conference provides opportunities for the cross fertilization of approaches techniques and ideas from the many fields that comprise AIED including computer science cognitive and learning sciences education game design psychology sociology linguistics as well as many domain specific areas *Advances in Production Management Systems. Towards Smart Production Management Systems* Farhad Ameri,Kathryn E. Steckel,Gregor von Cieminski,Dimitris Kiritsis,2019-08-23 The two volume set IFIP AICT 566 and 567 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems APMS 2019 held in Austin TX USA The 161 revised full papers presented were carefully reviewed and selected from 184 submissions They discuss globally pressing issues in smart manufacturing operations management supply chain management and Industry 4.0 The papers are organized in the following topical sections lean production production management in food supply chains sustainability and reconfigurability of manufacturing systems product and asset life cycle management in smart factories of industry 4.0 variety and complexity management in the era of industry 4.0 participatory methods for supporting the career choices in industrial engineering and management education blockchain in supply chain management designing and delivering smart services in the digital age operations management in engineer to order manufacturing the operator 4.0 and the Internet of Things services and people intelligent diagnostics and maintenance solutions for smart manufacturing smart supply networks production management theory and methodology data driven production management industry 4.0 implementations smart factory and IIOT cyber physical systems knowledge management in design and manufacturing collaborative product development ICT for collaborative manufacturing collaborative technology applications of machine learning in production management and collaborative technology Public Transit Planning and Operation Avishai Ceder,2016-03-09 Addresses

the Challenges Facing Public Transport Policy Makers and Operators Public Transit Planning and Operation Modeling Practice and Behavior Second Edition offers new solutions for delivering both better services and greater efficiency solutions which have been developed and tested by the author in over thirty years of research work with mass transit policy makers and operators all over the world It bridges the worlds of practice and research and academia provides an overview and a critique of currently used operational planning methods and furnishes innovative practical techniques and modeling Improve Service Performance and Successfully Manage the Costs of Operation This new edition brings in new material on timetabling and vehicle scheduling with different vehicle sizes new methods of designing transit route networks analysis of transit coordination and connectivity behavioral aspects of passengers including when making transfers and innovative methods related to automation and optimization which can be used in real time to significantly improve service reliability Combines academic research with real world project experience Focuses on issues encountered in practice Provides unique coverage of the field Public Transit Planning and Operation Modeling Practice and Behavior Second Edition incorporates a series of themes and new ways of thinking about planning and operation Bridging the gap between theory and application this text outlines the factors affecting public transport services addresses common problems and offers practical solutions for improvement

Computational Science and Its Applications - ICCSA 2016 Osvaldo Gervasi,Beniamino Murgante,Sanjay Misra,Ana Maria A.C. Rocha,Carmelo M. Torre,David Taniar,Bernady O. Apduhan,Elena Stankova,Shangguang Wang,2016-06-30 The five volume set LNCS 9786 9790 constitutes the refereed proceedings of the 16th International Conference on Computational Science and Its Applications ICCSA 2016 held in Beijing China in July 2016 The 239 revised full papers and 14 short papers presented at 33 workshops were carefully reviewed and selected from 849 submissions They are organized in five thematical tracks computational methods algorithms and scientific applications high performance computing and networks geometric modeling graphics and visualization advanced and emerging applications and information systems and technologies *Integration of Constraint Programming, Artificial Intelligence, and Operations Research* Andre A. Cire,2023-05-22 This book constitutes the proceedings of the 20th International Conference on the Integration of Constraint Programming Artificial Intelligence and Operations Research CPAIOR 2022 held in Nice France during May 29 June 1 2023 The 26 full papers and the 6 short papers presented in this book were carefully reviewed and selected from a total of 71 submissions The content of the papers present new techniques or new applications and provide an opportunity for researchers in one area to learn about techniques in the others Besides they give researchers the opportunity to show how the integration of techniques from different fields can lead to interesting results on large and complex problems

14th International Symposium on Process Systems Engineering Yoshiyuki Yamashita,Manabu Kano,2022-06-24 14th International Symposium on Process Systems Engineering Volume 49 brings together the international community of researchers and engineers interested in computing based methods in process engineering The conference highlights the

contributions of the PSE community towards the sustainability of modern society and is based on the 2021 event held in Tokyo Japan July 1 23 2021 It contains contributions from academia and industry establishing the core products of PSE defining the new and changing scope of our results and covering future challenges Plenary and keynote lectures discuss real world challenges globalization energy environment and health and contribute to discussions on the widening scope of PSE versus the consolidation of the core topics of PSE Highlights how the Process Systems Engineering community contributes to the sustainability of modern society Establishes the core products of Process Systems Engineering Defines the future challenges of Process Systems Engineering *Optimal Operation of Integrated Energy Systems Under Uncertainties* Bo Yang,Zhaojian Wang,Xinping Guan,2023-09-06 Optimal Operation of Integrated Energy Systems Under Uncertainties Distributionally Robust and Stochastic Models discusses new solutions to the rapidly emerging concerns surrounding energy usage and environmental deterioration Integrated energy systems IESs are acknowledged to be a promising approach to increasing the efficiency of energy utilization by exploiting complementary alternative energy sources and storages IESs show favorable performance for improving the penetration of renewable energy sources RESs and accelerating low carbon transition However as more renewables penetrate the energy system their highly uncertain characteristics challenge the system with significant impacts on safety and economic issues To this end this book provides systematic methods to address the aggravating uncertainties in IESs from two aspects distributionally robust optimization and online operation Presents energy scheduling considering power gas and carbon markets concurrently based on distributionally robust optimization methods Helps readers design day ahead scheduling schemes considering both decision dependent uncertainties and decision independent uncertainties for IES Covers online scheduling and energy auctions by stochastic optimization methods Includes analytic results given to measure the performance gap between real performance and ideal performance

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