HANDBOOKS IN OPERATIONS RESEARCH AND MANAGEMENT SCIENCE

Volume 13

SIMULATION

S.G. Henderson   B.L. Nelson

Editors

NORTH-HOLLAND

Handbooks In Operations Research And Management Science Volume 13 Simulation

Felisa Vázquez-Abad,Bernd Heidergott

Handbooks In Operations Research And Management Science Volume 13 Simulation:

Handbooks in Operations Research and Management Science: Simulation Shane G. Henderson,Barry L. Nelson,2006-09-02 This Handbook is a collection of chapters on key issues in the design and analysis of computer simulation experiments on models of stochastic systems The chapters are tightly focused and written by experts in each area For the purpose of this volume simulation refers to the analysis of stochastic processes through the generation of sample paths realization of the processes Attention focuses on design and analysis issues and the goal of this volume is to survey the concepts principles tools and techniques that underlie the theory and practice of stochastic simulation design and analysis Emphasis is placed on the ideas and methods that are likely to remain an intrinsic part of the foundation of the field for the foreseeable future The chapters provide up to date references for both the simulation researcher and the advanced simulation user but they do not constitute an introductory level how to guide Computer scientists financial analysts industrial engineers management scientists operations researchers and many other professionals use stochastic simulation to design understand and improve communications financial manufacturing logistics and service systems A theme that runs throughout these diverse applications is the need to evaluate system performance in the face of uncertainty including uncertainty in user load interest rates demand for product availability of goods cost of transportation and equipment failures Tightly focused chapters written by experts Surveys concepts principles tools and techniques that underlie the theory and practice of stochastic simulation design and analysis Provides an up to date reference for both simulation researchers and advanced simulation users *Handbook of Simulation Optimization* Michael C Fu,2014-11-13 The Handbook of Simulation Optimization presents an overview of the state of the art of simulation optimization providing a survey of the most well established approaches for optimizing stochastic simulation models and a sampling of recent research advances in theory and methodology Leading contributors cover such topics as discrete optimization via simulation ranking and selection efficient simulation budget allocation random search methods response surface methodology stochastic gradient estimation stochastic approximation sample average approximation stochastic constraints variance reduction techniques model based stochastic search methods and Markov decision processes This single volume should serve as a reference for those already in the field and as a means for those new to the field for understanding and applying the main approaches The intended audience includes researchers practitioners and graduate students in the business engineering fields of operations research management science operations management and stochastic control as well as in economics finance and computer science *Advances in Battery Manufacturing, Service, and Management Systems* Jingshan Li,Shiyu Zhou,Yehui Han,2016-09-19 Addresses the methodology and theoretical foundation of battery manufacturing service and management systems BM2S2 and discusses the issues and challenges in these areas This book brings together experts in the field to highlight the cutting edge research advances in BM2S2 and to promote an innovative integrated research framework responding to the challenges

There are three major parts included in this book manufacturing service and management The first part focuses on battery manufacturing systems including modeling analysis design and control as well as economic and risk analyses The second part focuses on information technology s impact on service systems such as data driven reliability modeling failure prognosis and service decision making methodologies for battery services The third part addresses battery management systems BMS for control and optimization of battery cells operations and hybrid storage systems to ensure overall performance and safety as well as EV management The contributors consist of experts from universities industry research centers and government agency In addition this book Provides comprehensive overviews of lithium ion battery and battery electrical vehicle manufacturing as well as economic returns and government support Introduces integrated models for quality propagation and productivity improvement as well as indicators for bottleneck identification and mitigation in battery manufacturing Covers models and diagnosis algorithms for battery SOC and SOH estimation data driven prognosis algorithms for predicting the remaining useful life RUL of battery SOC and SOH Presents mathematical models and novel structure of battery equalizers in battery management systems BMS Reviews the state of the art of battery supercapacitor and battery supercapacitor hybrid energy storage systems HESSs for advanced electric vehicle applications Advances in Battery Manufacturing Services and Management Systems is written for researchers and engineers working on battery manufacturing service operations logistics and management It can also serve as a reference for senior undergraduate and graduate students interested in BM2S2 **Handbook of Healthcare Operations Management** Brian T. Denton,2013-02-28 From the Preface Collectively the chapters in this book address application domains including inpatient and outpatient services public health networks supply chain management and resource constrained settings in developing countries Many of the chapters provide specific examples or case studies illustrating the applications of operations research methods across the globe including Africa Australia Belgium Canada the United Kingdom and the United States Chapters 1 4 review operations research methods that are most commonly applied to health care operations management including queuing simulation and mathematical programming Chapters 5 7 address challenges related to inpatient services in hospitals such as surgery intensive care units and hospital wards Chapters 8 10 cover outpatient services the fastest growing part of many health systems and describe operations research models for primary and specialty care services and how to plan for patient no shows Chapters 12 16 cover topics related to the broader integration of health services in the context of public health including optimizing the location of emergency vehicles planning for mass vaccination events and the coordination among different parts of a health system Chapters 17 18 address supply chain management within hospitals with a focus on pharmaceutical supply management and the challenges of managing inventory for nursing units Finally Chapters 19 20 provide examples of important and emerging research in the realm of humanitarian logistics **Fundamentals of Queueing Theory** John F. Shortle,James M. Thompson,Donald Gross,Carl M. Harris,2018-03-29 The definitive guide to

queueing theory and its practical applications features numerous real world examples of scientific engineering and business applications Thoroughly updated and expanded to reflect the latest developments in the field Fundamentals of Queueing Theory Fifth Edition presents the statistical principles and processes involved in the analysis of the probabilistic nature of queues Rather than focus narrowly on a particular application area the authors illustrate the theory in practice across a range of fields from computer science and various engineering disciplines to business and operations research Critically the text also provides a numerical approach to understanding and making estimations with queueing theory and provides comprehensive coverage of both simple and advanced queueing models As with all preceding editions this latest update of the classic text features a unique blend of the theoretical and timely real world applications The introductory section has been reorganized with expanded coverage of qualitative non mathematical approaches to queueing theory including a high level description of queues in everyday life New sections on non stationary fluid queues fairness in queueing and Little s Law have been added as has expanded coverage of stochastic processes including the Poisson process and Markov chains Each chapter provides a self contained presentation of key concepts and formulas to allow readers to focus independently on topics relevant to their interests A summary table at the end of the book outlines the queues that have been discussed and the types of results that have been obtained for each queue Examples from a range of disciplines highlight practical issues often encountered when applying the theory to real world problems A companion website features QtsPlus an Excel based software platform that provides computer based solutions for most queueing models presented in the book Featuring chapter end exercises and problems all of which have been classroom tested and refined by the authors in advanced undergraduate and graduate level courses Fundamentals of Queueing Theory Fifth Edition is an ideal textbook for courses in applied mathematics queueing theory probability and statistics and stochastic processes This book is also a valuable reference for practitioners in applied mathematics operations research engineering and industrial engineering **Sensing, Modeling and Optimization of Cardiac Systems** Hui Yang,Bing Yao,2023-08-18 This book reviews the development of physics based modeling and sensor based data fusion for optimizing medical decision making in connection with spatiotemporal cardiovascular disease processes To improve cardiac care services and patients quality of life it is very important to detect heart diseases early and optimize medical decision making This book introduces recent research advances in machine learning physics based modeling and simulation optimization to fully exploit medical data and promote the data driven and simulation guided diagnosis and treatment of heart disease Specifically it focuses on three major topics computer modeling of cardiovascular systems physiological signal processing for disease diagnostics and prognostics and simulation optimization in medical decision making It provides a comprehensive overview of recent advances in personalized cardiac modeling by integrating physics based knowledge of the cardiovascular system with machine learning and multi source medical data It also discusses the state of the art in electrocardiogram ECG signal processing for the identification of disease altered cardiac

dynamics Lastly it introduces readers to the early steps of optimal decision making based on the integration of sensor based learning and simulation optimization in the context of cardiac surgeries This book will be of interest to researchers and scholars in the fields of biomedical engineering systems engineering and operations research as well as professionals working in the medical sciences   Proceedings of the 22nd International Conference on Industrial Engineering and Engineering Management 2015 Ershi Qi,Jiang Shen,Runliang Dou,2016-01-29 Being the premier forum for the presentation of new advances and research results in the fields of Industrial Engineering IEEM 2015 aims to provide a high level international forum for experts scholars and entrepreneurs at home and abroad to present the recent advances new techniques and applications face and face to promote discussion and interaction among academics researchers and professionals to promote the developments and applications of the related theories and technologies in universities and enterprises and to establish business or research relations to find global partners for future collaboration in the field of Industrial Engineering All the goals of the international conference are to fulfill the mission of the series conference which is to review exchange summarize and promote the latest achievements in the field of industrial engineering and engineering management over the past year and to propose prospects and vision for the further development This volume is the first of the two proceedings volumes from this conference   *The Palgrave Handbook of Operations Research* Saïd Salhi,John Boylan,2022-07-07 Operations Research OR is a fast evolving field which is having a significant impact on its neighbouring disciplines of Business Analytics and Data Science and on contemporary business and management practices This handbook provides a comprehensive and cutting edge collection of studies in the area Views differ on what should be included within the scope of OR The editors of this volume have taken the view that an inclusive stance is the most helpful both for theory and practice Real world problems often require consideration from both softer and harder perspectives and need consideration of both predictive and prescriptive problems In accordance with this inclusive approach to OR the book is divided into six parts covering Discrete Optimization Continuous Optimization Heuristic Search Optimization Forecasting Simulation and Prediction Problem Structuring and Behavioural OR and finally some recent OR Applications This wide ranging handbook includes a culturally diverse collection of authors with different perspectives and backgrounds around Operations Research It will be of tremendous value to researchers students and practitioners in the field of OR   *Design and Analysis of Simulation Experiments* Jack P.C. Kleijnen,2007-11-15 Simulation is a widely used methodology in all Applied Science disciplines This textbook focuses on this crucial phase in the overall process of applying simulation and includes the best of both classic and modern methods of simulation experimentation This book will be the standard reference book on the topic for both researchers and sophisticated practitioners and it will be used as a textbook in courses or seminars focusing on this topic   **Production Planning with Capacitated Resources and Congestion** Hubert Missbauer,Reha Uzsoy,2020-02-26 This book presents a comprehensive overview of recent developments in production planning The

monograph begins with an introductory chapter reviewing the need for these production planning models that operate by determining time phased releases of work into the facility or supply chain relating these to the Manufacturing Planning and Control MPC and Advanced Planning and Scheduling APS frameworks that form the basis of most academic research and industrial practice The extensive body of work on Workload Control is also placed in this context and proves the need for improved models with a discussion of the difficulties these approaches encounter The next two chapters present a detailed review of the state of the art in optimization models based on exogenous planned lead times and examines the cases where these can take both integer and fractional values The difficulties arising in estimating planned lead times are consistent with factory behavior which are highlighted noting that many of these lead to non convex optimization models Attempts to address these difficulties by iterative multimodel approaches that combine simulation and mathematical programming are also discussed in detail The next three chapters of the volume address the set of techniques developed using clearing functions which represent the expected output of a resource in a planning period as a function of the expected workload of the resource during that period The chapters on this subject propose a basic optimization model for multiple products discuss the difficulties of this model and some possible solutions It also reviews prior work and discuss a number of alternative formulations of the clearing function concept with their respective advantages and disadvantages Applications to lot sizing decisions and a number of other specific problems are also described This volume concludes with an assessment of the state of the art described in the volume and several directions for future work **Handbook of Simulation** Jerry Banks,1998-09-14 The only complete guide to all aspects and uses of simulation from the international leaders in the field There has never been a single definitive source of key information on all facets of discrete event simulation and its applications to major industries The Handbook of Simulation brings together the contributions of leading academics practitioners and software developers to offer authoritative coverage of the principles techniques and uses of discrete event simulation Comprehensive in scope and thorough in approach the Handbook is the one reference on discrete event simulation that every industrial engineer management scientist computer scientist operations manager or operations researcher involved in problem solving should own with an in depth examination of Simulation methodology from experimental design to data analysis and more Recent advances such as object oriented simulation on line simulation and parallel and distributed simulation Applications across a full range of manufacturing and service industries Guidelines for successful simulations and sound simulation project management Simulation software and simulation industry vendors

VIII International Scientific Siberian Transport Forum Zdenka Popovic,Aleksey Manakov,Vera Breskich,2020-01-31 This book presents the findings of scientific studies on the successful operation of complex transport infrastructures in regions with extreme climatic and geographical conditions It features the proceedings of the VIII International Scientific Siberian Transport Forum TransSiberia 2019 which was held in Novosibirsk Russia on May 22 27 2019 The book discusses improving

energy efficiency in the transportation sector and the use of artificial intelligence in transport highlighting a range of topics such as freight and logistics freeway traffic modelling and control intelligent transport systems and smart mobility transport data and transport models highway and railway construction and trucking on the Siberian ice roads Consisting of 214 high quality papers on a wide range of issues these proceedings appeal to scientists engineers managers in the transport sector and anyone involved in the construction and operation of transport infrastructure facilities   *Optimal Learning* Warren B. Powell,Ilya O. Ryzhov,2012-04-17 Learn the science of collecting information to make effective decisions Everyday decisions are made without the benefit of accurate information Optimal Learning develops the needed principles for gathering information to make decisions especially when collecting information is time consuming and expensive Designed for readers with an elementary background in probability and statistics the book presents effective and practical policies illustrated in a wide range of applications from energy homeland security and transportation to engineering health and business This book covers the fundamental dimensions of a learning problem and presents a simple method for testing and comparing policies for learning Special attention is given to the knowledge gradient policy and its use with a wide range of belief models including lookup table and parametric and for online and offline problems Three sections develop ideas with increasing levels of sophistication Fundamentals explores fundamental topics including adaptive learning ranking and selection the knowledge gradient and bandit problems Extensions and Applications features coverage of linear belief models subset selection models scalar function optimization optimal bidding and stopping problems Advanced Topics explores complex methods including simulation optimization active learning in mathematical programming and optimal continuous measurements Each chapter identifies a specific learning problem presents the related practical algorithms for implementation and concludes with numerous exercises A related website features additional applications and downloadable software including MATLAB and the Optimal Learning Calculator a spreadsheet based package that provides an introduction to learning and a variety of policies for learning   **Automatic Algorithm Selection for Complex Simulation Problems** Roland Ewald,2011-11-20 To select the most suitable simulation algorithm for a given task is often difficult This is due to intricate interactions between model features implementation details and runtime environment which may strongly affect the overall performance An automated selection of simulation algorithms supports users in setting up simulation experiments without demanding expert knowledge on simulation Roland Ewald analyzes and discusses existing approaches to solve the algorithm selection problem in the context of simulation He introduces a framework for automatic simulation algorithm selection and describes its integration into the open source modelling and simulation framework James II Its selection mechanisms are able to cope with three situations no prior knowledge is available the impact of problem features on simulator performance is unknown and a relationship between problem features and algorithm performance can be established empirically The author concludes with an experimental evaluation of the developed methods   *Operational Research for Emergency Planning in Healthcare:*

Volume 1 Navonil Mustafee,2016-01-26 This book presents a collection of studies that have applied analytical methods to improve preparedness planning and a faster response to A E and public health emergencies like epidemic and disease outbreak It explores the application of quantitative Operational Research techniques such as Mathematical Modelling and Optimization Maximum Likelihood Estimation Multiple Criteria Decision Analysis Discrete event Simulation Data Mining and Bayesian Decision Models These techniques have been used for better management of emergency care including first responders ambulance services A E departments and mass immunisation centres This volume focuses on planning at the operational level whereas volume 2 focuses mainly on planning at the strategic level The OR Essentials series presents a unique cross section of high quality research work fundamental to understanding contemporary issues and research across a range of Operational Research OR topics It brings together some of the best research papers from the highly respected journals of the Operational Research Society also published by Palgrave Macmillan **Computational Science – ICCS 2008** Marian Bubak,Geert Dick van Albada,Jack Dongarra,Peter M.A. Sloot,2008-06-25 The three volume set LNCS 5101 5103 constitutes the refereed proceedings of the 8th International Conference on Computational Science ICCS 2008 held in Krakow Poland in June 2008 The 167 revised papers of the main conference track presented together with the abstracts of 7 keynote talks and the 100 revised papers from 14 workshops were carefully reviewed and selected for inclusion in the three volumes The main conference track was divided into approximately 20 parallel sessions addressing topics such as e science applications and systems scheduling and load balancing software services and tools new hardware and its applications computer networks simulation of complex systems image processing and visualization optimization techniques numerical linear algebra and numerical algorithms The second volume contains workshop papers related to various computational research areas e g computer graphics and geometric modeling simulation of multiphysics multiscale systems computational chemistry and its applications computational finance and business intelligence physical biological and social networks geocomputation and teaching computational science The third volume is mostly related to computer science topics such as bioinformatics challenges to computer science tools for program development and analysis in computational science software engineering for large scale computing collaborative and cooperative environments applications of workflows in computational science as well as intelligent agents and evolvable systems **Disaggregation** L.P. Ritzman,M. Tvrdý,2013-03-09 This volume is intended to expand the dialogue and interest among both practitioners and academicians in a problem area worthy of attention by all The concept of disaggregation admits to our current inability to solve many types of interrelated hierarchical problems simultaneously It offers instead a sequential iterative process as a workable and necessary procedure The papers in this volume are selected from those presented at a Disaggregation Conference held in March 1977 at The Ohio State University We heartily applaud all those who participated in the conference and particularly appreci ate the cooperation of those authors whose work is published in this collection Part A contains four papers which define the

various dimensions of disaggregation The paper by Martin Starr which was the text of his luncheon address at the conference provides several interesting perspectives to the problem Although disaggregation suggests tear ing apart as Professor Starr illustrates with his butterfly example it also suggests a putting together or a synthesis which recognizes interrelationships and dependencies The next paper by Lee Kra jewski and Larry Ritzman offers a general model of disaggregation for both the manufacturing and service sectors After reading the papers in this section as well as the papers in subsequent sections you will identify other dimensions to hierarchical decision making which go beyond this generalized model   **Optimization and Learning via Stochastic Gradient Search** Felisa Vázquez-Abad,Bernd Heidergott,2025-10-14 An introduction to gradient based stochastic optimization that integrates theory and implementation This book explains gradient based stochastic optimization exploiting the methodologies of stochastic approximation and gradient estimation Although the approach is theoretical the book emphasizes developing algorithms that implement the methods The underlying philosophy of this book is that when solving real problems mathematical theory the art of modeling and numerical algorithms complement each other with no one outlook dominating the others The book first covers the theory of stochastic approximation including advanced models and state of the art analysis methodology treating applications that do not require the use of gradient estimation It then presents gradient estimation developing a modern approach that incorporates cutting edge numerical algorithms Finally the book culminates in a rich set of case studies that integrate the concepts previously discussed into fully worked models The use of stochastic approximation in statistics and machine learning is discussed and in depth theoretical treatments for selected gradient estimation approaches are included Numerous examples show how the methods are applied concretely and end of chapter exercises enable readers to consolidate their knowledge Many chapters end with a section on Practical Considerations that addresses typical tradeoffs encountered in implementation The book provides the first unified treatment of the topic written for a wide audience that includes researchers and graduate students in applied mathematics engineering computer science physics and economics

Location, Transport and Land-Use Yupo Chan,2004-10-11 1 Theme and focus Few books are available to integrate the models for facilities siting transportation and land use Employing state of the art quantitative models and case studies this book would guide the siting of such facilities as transportation terminals warehouses nuclear power plants military bases landfills emergency shelters state parks and industrial plants The book also shows the use of statistical tools for forecasting and analyzing implications of land use decisions The idea is that la use on a map is necessarily a consequence of individual and often conflicting siting decisions over time Since facilities often develop to form a community these decisions are interrelated spatially i e they need to be accessible to one another via the transportation system It is our thesis that a common methodological procedure exists to analyze all these spatial temporal constructs While there are several monographs and texts on subjects related to this book s this volume is unique in that it integrates existing practical and

theoretical works on facility location transportation and land use Instead of dealing with individual facility location transportation or the resulting land use pattern individually it provides the underlying principles that are behind these types of models Particularly of interest is the emphasis on counter intuitive decisions that often escape our minds unless deliberate steps of analysis are taken Oriented toward the fundamental principles of infrastructure management the book transcends the traditional engineering and planning disciplines where the main concerns are often exclusively either physical design fiscal socioeconomic or political considerations   *Advances in Manufacturing Technology XXXIII* Mark Price,2019-08-15 The development and management of technologies and operations are key to the success of all types of manufacturing business This book presents the proceedings of the 17th International Conference on Manufacturing Research ICMR 2019 held in Belfast UK on 10 12 September 2019 ICMR has been the UK s main manufacturing research conference for 34 years and an international conference since 2003 It brings together researchers academics and industrialists to share their vision knowledge and experience and discuss emerging trends and new challenges in manufacturing research The conference theme of ICMR2019 was smart manufacturing and the book includes the 82 papers presented at the conference representing an acceptance rate of 69% These have been divided into 13 parts which cover topics ranging from robot automation and machining processes additive manufacturing composite manufacturing design methods to information management quality control production optimization and product lifecycle management Providing an overview of current trends and developments the book will be of interest to researchers and engineers in the relevant area of manufacturing processes design and production management

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