

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

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Albada,Jack Dongarra,Peter M.A. Sloot**



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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

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