

SIMULATION MODELING IN OPERATIONS MANAGEMENT:

A Sampling of Applications

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Abstract

Simulation modeling has become a promising technology for a variety of operations management applications. The modern software has made it easy for managers to initiate simulation projects to address various operational problems. The objective of this presentation is to review the latest applications of simulation projects addressing operations management issues.

Introduction

Computer-assisted simulation modeling has become more common as a method of inquiry for operations management and the service industry since the 1990's. Many technology driven managers now rely on extensive use of simulation to test new ideas and options before actual implementation of their ideas. Instead of building extensive mathematical models by experts, the readily available simulation software has made it possible to model and analyze the operation of a real system by managers who are not well versed in programming languages. Simulation allows the manager to both quantify and observe the system's behavior. Whether the system is a production line, a distribution network or a communications system, simulation can be used to study and compare alternative designs or troubleshoot existing operations. With simulation models, the manager can explicitly visualize how an existing operation might perform under varied inputs, and how a new or proposed operation might behave under same or different inputs [2,13]. The ability to easily construct and execute models and to generate statistics and animations about results has been the main attractions of simulation. The windows based simulation software such as ARENA, have made simulation modeling not only affordable but relatively easy for managers to initiate simulation studies of a variety of situations including operations and processes, feasibility studies, business processes, human resource deployment, call center staffing, capacity planning and others.

Simulation Modeling In Operations Management

Patrick Vollmar



Simulation Modeling In Operations Management:

Computer Simulation in Operations Management Keith Klafehn, Jay Weinroth, Jess S. Boronico, 1996-10-21 The management of production and service processes can be supported by microcomputer simulation models effectively and inexpensively if the techniques are presented in an understandable manner Drs Klafehn Weinroth and Boronico prove this and show how to do it not only for the benefit of operations managers themselves but for others with management responsibilities in a variety of businesses and industries They will learn how important daily operations problems can be modeled on a microcomputer gain understanding of overall simulation methodology and learn the several forms of cost savings achievable through simulation For teachers in business schools the book will also provide a link between general management and the management of engineering and R D The first chapter introduces the reader to the concepts and steps for undertaking a microcomputer simulation project In addition the benefits drawbacks and myths are reviewed in detail Chapter two explores in a conversational scenario what is involved in taking a management operations problem involving a truck transfer depot from its point of inception to the formulation of a systems operation model which in a later chapter is ultimately put into a computer simulation model and tested to in a sense come up with answers to the questions posed in the hypothetical conversation Subsequent chapters in the book are oriented to a discussion of other operations management problems and the effort to seek insight and solutions through simulation modeling A Just in Time manufacturing system is addressed recognizing the push pull concept as well as looking at the quality aspect Attempting to determine the optimum levels for safety stock order points and order quantity is investigated through computer simulation These levels are predicated on balancing the costs associated with ordering and holding goods as well as the penalty costs of stocking out Using a simulated environment enables the inclusion of the variability evidenced by the type of distribution The remaining chapters also review alternative rules and what ifs as applied to machine configuration facility location for a satellite EMS unit and job shop operations Each of the applications chapters provides a printout of the basic computer model written in GPSS that was then modified to investigate alternative scenarios *Encyclopedia of Operations Research and Management Science* Saul I. Gass, Carl M. Harris, 2001 Audience Anyone concerned with the science techniques and ideas of how decisions are made BOOK JACKET *Operations Research* Himanshu, 2018-11-10 Operations research encompasses a wide range of problem solving techniques and methods applied in the pursuit of improved decision making and efficiency Some of the tools used by operations researchers are statistics optimization probability theory queuing theory game theory graph theory decision analysis mathematical modeling and simulation An Information System is any combination of information technology and people s activities using that technology to support operations management and decision making In a very broad sense the term information system is frequently used to refer to the interaction between people algorithmic processes data and technology Operations Research is the scientific study of logistic networks to provide for decision support at all levels in

order to optimize production and distribution of the commodity flows Nowadays these logistic networks have become very large and may range over several countries while the demands for quality of service have grown similarly to ever higher standards Generally one agrees that to maintain such large networks successfully one needs the control of all the information flows through the network that is continuous information on the status of the resources Operations research is an interdisciplinary branch of applied mathematics and formal science that uses advanced analytical methods such as mathematical modeling statistical analysis and mathematical optimization to arrive at optimal or near optimal solutions to complex decision making problems It is often concerned with determining the maximum or minimum of some real world objective The book of operations management features the latest concepts and applications while not losing focus on the core concepts that has made this text a market leader **Agent-based Modeling and Simulation** S. Taylor, 2014-08-27

Operational Research OR deals with the use of advanced analytical methods to support better decision making It is multidisciplinary with strong links to management science decision science computer science and many application areas such as engineering manufacturing commerce and healthcare In the study of emergent behaviour in complex adaptive systems Agent based Modelling Simulation ABMS is being used in many different domains such as healthcare energy evacuation commerce manufacturing and defense This collection of articles presents a convenient introduction to ABMS with papers ranging from contemporary views to representative case studies 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 esteemed Operational Research Society and its associated journals also published by Palgrave Macmillan **Simulation Modeling and Analysis with ARENA** Tayfur Altioek, Benjamin Melamed, 2010-07-26 Simulation Modeling and Analysis with Arena is a highly readable textbook which treats the essentials of the Monte Carlo discrete event simulation methodology and does so in the context of a popular Arena simulation environment It treats simulation modeling as an in vitro laboratory that facilitates the understanding of complex systems and experimentation with what if scenarios in order to estimate their performance metrics The book contains chapters on the simulation modeling methodology and the underpinnings of discrete event systems as well as the relevant underlying probability statistics stochastic processes input analysis model validation and output analysis All simulation related concepts are illustrated in numerous Arena examples encompassing production lines manufacturing and inventory systems transportation systems and computer information systems in networked settings Introduces the concept of discrete event Monte Carlo simulation the most commonly used methodology for modeling and analysis of complex systems Covers essential workings of the popular animated simulation language ARENA including set up design parameters input data and output analysis along with a wide variety of sample model applications from production lines to transportation systems Reviews elements of statistics probability and stochastic processes relevant to simulation modeling **Industrial**

Engineering and Operations Management Antônio Márcio Tavares Thomé, Rafael Garcia Barbastefano, Luiz Felipe Scavarda, João Carlos Gonçalves dos Reis, Marlene Paula Castro Amorim, 2021-08-28 This proceedings volume gathers together selected peer reviewed papers presented at the second edition of the XXVI International Joint Conference on Industrial Engineering and Operations Management IJCIEOM which was virtually held on February 22-24, 2021 with the main organization based at the Pontifical Catholic University of Rio de Janeiro Brazil. Works cover a range of topics in industrial engineering including operations and process management, global operations, managerial economics, data science and stochastic optimization, logistics and supply chain management, quality management, product development strategy and organizational engineering, knowledge and information management, sustainability and disaster management to name a few. These topics broadly involve fields like operations, manufacturing, industrial and production engineering and management. This book can be a valuable resource for researchers and practitioners in optimization research, operations research and correlated fields.

Encyclopedia of Production and Manufacturing Management Paul M. Swamidass, 2006-09-21 The Encyclopedia of Production and Manufacturing Management is an encyclopedia that has been developed to serve this field as the fundamental reference work. Over the past twenty years, the field of production and operations management has grown more rapidly than ever and consequently its boundaries have been stretched in all directions. For example, in the last two decades, production and manufacturing management absorbed in rapid succession several new production management concepts: manufacturing strategy, focused factory, just in time, manufacturing concurrent engineering, total quality management, supply chain management, flexible manufacturing systems, lean production and mass customization to name a few. This explosive growth makes the need for this volume abundantly clear. The manufacturing industry thinks and acts more broadly than it did several decades ago. The most notable change has been the need for manufacturing managers to think in technological, strategic and competitive terms. This is a very favorable development and it leads to manufacturing success. The entries in this encyclopedia include the most recent technical and strategic innovations in production and manufacturing management. The encyclopedia consists of articles of varying lengths. The longer articles on important concepts and practices range from five to fifteen pages. There are about 100 such articles written by nearly 100 authors from around the world. In addition, there are over 1000 shorter entries on concepts, practices and principles. The range of topics and depth of coverage is intended to suit both student and professional audiences. The shorter entries provide digests of unfamiliar and complicated subjects. Difficult subjects are made intelligible to the reader without oversimplification. The strategic and technological perspectives on various topics give this Encyclopedia its distinctiveness and uniqueness. The world of manufacturing today is increasingly competitive. It is apparent that manufacturers must respond to these competitive pressures with technical and strategic innovation. This encyclopedia has been developed to help researchers, students and those in the manufacturing industry to understand and implement these ongoing changes in the field.

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Operations Management John O. McClain, L. Joseph Thomas, Joseph B. Mazzola, 1992 Geared towards problem solving and problem recognition this text details various aspects of operations management It includes a discussion of multi level distribution systems and production scheduling in large organizations as well as productivity measurement and improvement

Research in Production/operations Management Christopher Voss, 1984 *Multiple Objective Analytics for Criminal Justice Systems* Gerald W. Evans, 2020-12-22 Criminal justice systems are complex and difficult to design and operate This is due to their many interacting parts and their dynamic and probabilistic nature as well as their interfaces with other systems This book reviews the use of analytics to address issues in criminal justice system and discusses the various sources of data associated with the systems This book is meant to be used by those who would like 1 an introduction to criminal justice systems and 2 an illustration of how some of the various methodologies of analytics can be used to address specific issues in criminal justice systems This book will be of interest to faculty students and researchers in schools departments of criminal justice law public affairs political science industrial engineering and management In addition the book should be of use to government analysts who study the effects of criminal programs and laws

Supply Chain Configuration Charu Chandra, Janis Grabis, 2007-06-04 Supply Chain Configuration Concepts Solutions and Applications provides a thorough explanation of the supply chain configuration problem and offers solutions that combine the mathematical aspects of problem solving with applications in modern information technology Drawing upon years of practical experience and using numerous examples authors Charu Chandra and Janis Grabis cover state of the art technologies and solutions in supply chain configuration including Establishment of a comprehensive definition of the supply chain configuration problem Discussion of models and tools available for solving specific configuration problems Discussion of solutions for supply chain configuration in the presence of stochastic and dynamic factors Emphasis on the value of model integration to obtain comprehensive and robust configuration decisions Applications from the automotive and retail industries Supply Chain Configuration Concepts Solutions and Applications is a must have book for practitioners and researchers who specialize in operations management and supply chain configuration

Operations Management: Problems and Models Elwood Spencer Buffa, 1972

Peterson's Annual Guides to Graduate Study, 1982-12 **Operations Management** James B. Dilworth, 2000 This text covers key concepts and trends in production and operations management It examines such issues as facility layout quality control supply chain management and scheduling control

1992 Winter Simulation Conference James J. Swain, 1992

Application of Computers and Operations Research in the Mineral Industry, 2002 **Signal**, 1993

Introduction to Simulation and Risk Analysis James Robert Evans, David Louis Olson, 2002 Simulation fundamentals Introduction to Simulation Simulation Using Excel Probability and Statistics in Simulation Simulation in risk analysis Risk Analysis Using Crystal Ball Applications of Risk Analysis Building System Simulation Models Systems simulation Output Analysis and Experimentation for Systems Simulation Systems Simulation Using ProcessModel Applications of Systems

Simulation Extensions of simulation Simulation in Forecasting and Optimization **Business Process Modeling, Simulation, and Design** Manuel Laguna, Johan Marklund, 2005 A focus on business processes as well as manufacturing processes and general OM problems plus an emphasis on simulation modeling using a state of the art commercial simulation software make this a unique standout volume in the area of operations management The volume blends traditional qualitative issues operations management and discrete event simulation by taking an analytical modeling perspective on process design and emphasizing the power of simulation modeling as a vehicle for analyzing and designing business processes The authors provide an introduction to business process design process management and process oriented improvement programs a simulation based methodology for designing business processes basic tools for process design managing process flows introduction to queuing and simulation introduction to Extend modeling and simulating business processes input and output data analysis optimizing business process performance and process benchmarking with data envelopment analysis For business professionals

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