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Discrete-event System Simulation Jerry Banks,2010 For junior and senior level simulation courses in engineering business or computer science Discrete Event System Simulation examines the principles of modeling and analysis that translate to all software tools rather than a particular software tool This language independent text explains the basic aspects of the technology including the proper collection and analysis of data the use of analytic techniques verification and validation of models and designing simulation experiments It offers an up to date treatment of simulation of manufacturing and material handling systems computer systems and computer networks Students and instructors will find a variety of resources including simulation source code for download additional exercises and solutions web links and errata at the associated website <http://dmnical.web.engr.illinois.edu/bcnn/index.html>

Advances in Intelligent Systems and Computing II

Natalia Shakhovska,Volodymyr Stepashko,2017-11-20 This book reports on new theories and applications in the field of intelligent systems and computing It covers computational and artificial intelligence methods as well as advances in computer vision current issues in big data and cloud computing computation linguistics and cyber physical systems It also reports on data mining and knowledge extraction technologies as well as central issues in intelligent information management Written by active researchers the respective chapters are based on papers presented at the International Conference on Computer Science and Information Technologies CSIT 2017 held on September 5 8 2017 in Lviv Ukraine and at two workshops accompanying the conference one on inductive modeling jointly organized by the Lviv Polytechnic National University and the National Academy of Science of Ukraine and another on project management which was jointly organized by the Lviv Polytechnic National University the International Project Management Association the Ukrainian Project Management Association the Kazakhstan Project Management Association and Nazarbayev University Given its breadth of coverage the book provides academics and professionals with extensive information and a timely snapshot of the field of intelligent systems and is sure to foster new discussions and collaborations among different groups

SYSTEM

SIMULATION, MODELLING AND LANGUAGES PANNEERSELVAM, R.,SENTHILKUMAR, P.,2013-01-31 Designed as a text for undergraduate students B Tech B E of Computer Science and Engineering and IT Mechanical Engineering and Mechatronics Engineering and postgraduate students M Tech M E M Sc of Computer Science and Engineering and IT and Industrial Engineering as well as for Bachelor and Master of Computer Applications BCA MCA this well organized book gives an in depth analysis of the concepts of system simulation modelling and simulation languages The book provides detailed discussions on the fundamental and advanced concepts of simulation The book begins with the concept of system and the different terminologies associated with the system Then it presents the different methods of random number generation and their tests Besides the text dwells on different probability distributions and their random variates which are used in the simulation model and describes various simulation languages such as GPSS Simula I SIMSCRIPT CSL GASP OPS 3 DYNAMO

SIMAN and SLAM II Further it gives a comprehensive coverage of different queueing systems with illustrative examples as well as the logics of simulation model for both single server and parallel server queueing systems The concluding chapters deal extensively with GPSS language Arena simulation software and ProModel simulation software Key Features Follows a step by step approach to derive the test results Gives a large number of solved examples and well designed chapter end questions Includes several real life Case Studies to illustrate the concepts discussed

Continuous System Simulation

François E. Cellier,Ernesto Kofman,2006-03-15 Highly computer oriented text introducing numerical methods and algorithms along with the applications and conceptual tools Includes homework problems suggestions for research projects and open ended questions at the end of each chapter Written by our successful author who also wrote Continuous System Modeling a best selling Springer book first published in the 1991 sold about 1500 copies

SPS2022 Amos H.C. Ng,Anna

Syberfeldt,Magnus Holm,2022-05-15 The realization of a successful product requires collaboration between developers and producers taking account of stakeholder value reinforcing the contribution of industry to society and enhancing the wellbeing of workers while respecting planetary boundaries Founded in 2006 the Swedish Production Academy SPA aims to drive and develop production research and education and to increase cooperation within the production area This book presents the proceedings of the 10th Swedish Production Symposium SPS2022 held in Sk vde Sweden from 26 29 April 2022 The overall theme of the symposium was Industry 5 0 Transformation Towards a Sustainable Human Centric and Resilient Production Since its inception in 2007 the purpose of SPS has been to facilitate an event at which members and interested participants from industry and academia can meet to exchange ideas The 69 papers accepted for presentation here are grouped into ten sections resource efficient production flexible production humans in the production system circular production systems and maintenance integrated product and production development industrial optimization and decision making cyber physical production systems and digital twins innovative production processes and additive manufacturing smart and resilient supply chains and linking research and education Also included are three sections covering the Special Sessions at SPS2022 artificial intelligence and industrial analytics in industry 4 0 development of resilient and sustainable production systems and boundary crossing and boundary objects in product and production development The book will be of interest to all those involved in the development and production of future products

Discrete-event System Simulation

Jerry Banks,John S. Carson,Barry L. Nelson,1996 Offers comprehensive coverage of discrete event simulation emphasizing and describing the procedures used in operations research methodology generation and testing of random numbers collection and analysis of input data verification of simulation models and analysis of output data

Proceedings of the ... European Simulation Multiconference ,1999

Energy Research Abstracts ,1982 Semianual with semianual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39

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