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designed for courses at advanced undergraduate or graduate level in industrial engineering and business this text provides a review of various aspects of simulation study including modelling simulation software validation and output data analysis

this book addresses the application of simulation modelling techniques in order to enable better informed decisions in business and industrial organisations the book s unique approach treats simulation not just as a technical tool but as a support for organisational decision making showing the results from a survey of current and potential users of simulation to suggest reasons why the technique is not used as much as it should be and what are the barriers to its further use

underwater acoustic modeling and simulation examines the translation of our physical understanding of sound in the sea into mathematical models that can simulate acoustic propagation noise and reverberation in the ocean these models are used in a variety of research and operational applications to predict and diagnose the performance of complex s

an ideal set text angela scriven course leader brunel university which research method should i use to evaluate services how do i design

a questionnaire how do i conduct a systematic review of research this handbook helps researchers to plan carry out and analyse health research and evaluate the quality of research studies the book takes a multidisciplinary approach to enable researchers from different disciplines to work side by side in the investigation of population health the evaluation of health care and in health care delivery handbook of health research methods is an essential tool for researchers and postgraduate students taking masters courses or undertaking doctoral programmes in health services evaluation health sciences health management public health nursing sociology socio biology medicine and epidemiology however the book also appeals to health professionals who wish to broaden their knowledge of research methods in order to make effective policy and practice decisions contributors joy adamson geraldine barrett jane p biddulph ann bowling sara brookes jackie brown simon carter michel p coleman paul cullinan george davey smith paul dieppe jenny donovan craig duncan shah ebrahim vikki entwistle clare harries lesley henderson kelvyn jones olga kostopoulou sarah j lewis richard martin martin mckee graham moon ellen nolte alan o rourke ann oakley tim peters tina ramkalawan caroline sanders mary shaw andrew steptoe jonathan sterne anne stiggelbout s v subramanian kate tilling liz twigg suzanne wait

in multi agent based simulation mabs the behavior of individual actors is modeled in detail the analysis and validation of these models is rated as difficult and requires support by innovative techniques and tools problems include model complexity the amount and often qualitative representation of simulation results and the typical dichotomy between microscopic modeling and macroscopic observation perspectives in recent years data mining has been increasingly applied as a support technique in this context a particularly promising approach is found in the field of process mining due to its rooting in business process analysis process mining shares several process and organization oriented analysis perspectives and use cases with agent based modeling this thesis proposes a conceptual framework

for the systematic application of process mining to the analysis and validation of mabs as a foundation agent oriented analysis perspectives and simulation specific use cases are identified and complemented with methods techniques and results from the literature a partial formalization of perspectives and use cases is sketched by utilizing concepts from process modeling and software engineering beyond the conceptual work process mining is applied in two case studies related to different modeling and simulation approaches

the business problem of having inefficient processes imprecise process analyses and simulations as well as non transparent artificial neuronal network models can be overcome by an easy to use modeling concept with the aim of developing a flexible and efficient approach to modeling simulating and optimizing processes this paper proposes a flexible concept of neuronal modeling conm the modeling concept which is described by the modeling language designed and its mathematical formulation and is connected to a technical substantiation is based on a collection of novel sub artifacts as these have been implemented as a computational model the set of conm tools carries out novel kinds of neuronal process modeling npm neuronal process simulations nps and neuronal process optimizations npo the efficacy of the designed artifacts was demonstrated rigorously by means of six experiments and a simulator of real industrial production processes

this second edition describes the fundamentals of modelling and simulation of continuous time discrete time discrete event and large scale systems coverage new to this edition includes a chapter on non linear systems analysis and modelling complementing the treatment of of continuous time and discrete time systems and a chapter on the computer animation and visualization of dynamical systems motion college or university bookstores may order five or more copies at a special student price available on request from marcel dekker inc

computer simulation can save time resources money and risk in manufacturing the focus of this manual and cd rom is to assist individuals in organisations who need to apply simulation to projects before committing resources and time

proceedings of an april 2001 symposium addressing traditional discrete event and continuous simulation topics as well as topics in areas of distributed systems network modeling and advances in simulation methodology and practices material is in sections on simulation based performance analysis network modeling and simulation vlsi circuit simulators simulation languages and environments based modeling and simulation parallel and distributed simulation and advances in simulation methodology and practices some subjects are queue structures for shared memory multiprocessor systems building a based federated simulation system with jini and xml modeling and simulation of active networks performance optimization of throttled time warp simulation and fault identification networks by passive testing lacks a subject index c book news inc

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