

Simulation The Practice Of Model Development And Use

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at present concerning intensive development of computer hardware and software computer based methods for modeling of difficult problems have become the main technique for theoretical and applied investigations many unsolved tasks for evolutionary systems es are an important class of such problems es relate to economic systems on the whole and separate branches and businesses scientific and art centers ecological systems populations separate species of animals and plants human organisms different subsystems of organisms cells of animals and plants and soon available methods for modeling of complex systems have received considerable attention and led to significant results no large scale programs are done without methods of modeling today power programs health programs cosmos investigations economy designs etc are a few examples of such programs nevertheless in connection with the permanent complication of contemporary problems existing means are in need of subsequent renovation and perfection in the monograph along with analysis of contemporary means new classes of mathematical models mm which can be used for modeling in the most difficult cases are proposed and justified the main peculiarities of these mm offer possibilities for the description ofes creation and restoration processes dynamics of elimination or reservation of obsolete technology in es dynamics of resources distribution for fulfillment of internal and external functions ofes and so on the complexity of the problems allows us to refer to the theory and applications of these mm as the mathematical theory of development for simplicity the title model development and optimization was adopted

formal methods are mathematically based techniques often supported by reasoning tools

that can offer a rigorous and effective way to model design and analyze computer systems the purpose of this study is to evaluate international industrial experience in using formal methods the cases selected are representative of industrial grade projects and span a variety of application domains the study had three main objectives to better inform deliberations within industry and government on standards and regulations to provide an authoritative record on the practical experience of formal methods to date and to suggest areas where future research and technology development are needed this study was undertaken by three experts in formal methods and software engineering dan craigen of ora canada susan gerhart of applied formal methods and ted ralston of ralston research associates robin bloomfield of adelard was involved with the darlington nuclear generating station shutdown system case support for this study was provided by organizations in canada and the united states the atomic energy control board of canada aecb provided support for dan craigen and for the technical editing provided by karen summerskill the u s naval research laboratories nrl washington dc provided support for all three authors the u s national institute of standards and technology nist provided support for ted ralston

to describe the true behavior of most real world systems with sufficient accuracy engineers have to overcome difficulties arising from their lack of knowledge about certain parts of a process or from the impossibility of characterizing it with absolute certainty depending on the application at hand uncertainties in modeling and measurements can be represented in different ways for example bounded uncertainties can be described by intervals affine forms or general polynomial enclosures such as taylor models whereas stochastic uncertainties can be characterized in the form of a distribution described for example by the mean value the standard deviation and higher order moments the goal of this special volume on modeling design and simulation of systems with uncertainties is to cover modern methods for dealing with the challenges presented by imprecise or unavailable information all contributions tackle the topic from the point of view of control state and parameter estimation optimization and simulation thematically this volume can be divided into two parts in the first we present works highlighting the theoretic background and current research on algorithmic approaches in the field of uncertainty handling together with their reliable software implementation the second part is concerned with real life application scenarios from various areas including but not limited to mechatronics robotics and biomedical engineering

the two volume set lncs 8802 and lncs 8803 constitutes the refereed proceedings of the

6th international symposium on leveraging applications of formal methods verification and validation isola 2014 held in imperial corfu greece in october 2014 the total of 67 full papers was carefully reviewed and selected for inclusion in the proceedings featuring a track introduction to each section the papers are organized in topical sections named evolving critical systems rigorous engineering of autonomic ensembles automata learning formal methods and analysis in software product line engineering model based code generators and compilers engineering virtualized systems statistical model checking risk based testing medical cyber physical systems scientific workflows evaluation and reproducibility of program analysis processes and data integration in the networked healthcare semantic heterogeneity in the formal development of complex systems in addition part i contains a tutorial on automata learning in practice as well as the preliminary manifesto to the lncs transactions on the foundations for mastering change with several position papers part ii contains information on the industrial track and the doctoral symposium and poster session

filled with figures images and illustrations encyclopedia of water science second edition provides effective concepts and procedures in environmental water science and engineering it unveils a wide spectrum of design concepts methods and solutions for enhanced performance of water quality treatment conservation and irrigation methods as well as improved water efficiency in industrial municipal and agricultural programs the second edition also includes greatly enhanced coverage of streams and lakes as well as many regional case studies an international team addresses important issues the only source to provide full coverage of current debates in the field the encyclopedia offers professional expertise on vital issues including current laws and regulations irrigation management environmental water economics agroforestry erosion control nutrient best management practices water sanitation stream and lake morphology and processes sharpen your skills meet challenges well armed a direct and reliable source for best practices in water handling preservation and recovery the encyclopedia examines challenges in the provision of safe water supplies guiding environmental professionals as they face a worldwide demand for sanitary and affordable water reserves also available online this taylor francis encyclopedia is also available through online subscription offering a variety of extra benefits for researchers students and librarians including citation tracking and alerts active reference linking saved searches and marked lists html and pdf format options contact taylor and francis for more information or to inquire about subscription options and print online combination packages us tel 1 888 318 2367 e mail e reference taylorandfrancis com international tel 44 0 20 7017 6062 e mail online sales tandf co uk

model development decisions are an important feature of engineering design the quality of simulation models often dictates the quality of design decisions seeing as models guide decision makers dm in choosing design decisions a quality model accurately represents the modeled system and is helpful for exploring what if scenarios optimizing design parameters estimating design performance and predicting the effect of design changes however obtaining a quality model comes at a cost in terms of model development in experimentation labor model development time and simulation time thus dms must make appropriate trade offs when considering model development decisions the primary challenge in model development is making decisions under significant uncertainty this thesis addresses model development in the conceptual design phase where uncertainty levels are high in the conceptual design phase there are many information constraints which may include an incomplete requirements list unclear design goals and or undefined resource constraints during the embodiment design phase the overall objective of the design is more clearly defined and model development decisions can be made with respect to an overall objective function for example the objective may be to maximize profit where the profit is a known function of the model output in the conceptual design phase this level of clarity is not always present so the dm must make decisions under significant model uncertainty and objective uncertainty in this thesis conjoint analysis is employed to solicit the preferences of the decision maker for various model attributes and the preferences are used to formulate a quasi objective function during the conceptual design phase where the overall design goals are vague epistemic uncertainty i e imprecision in model attributes is represented as intervals and propagated through the proposed model development framework the model development framework is used to evaluate the best course of action i e model development decision for a real world packaging design problem the optimization of medical product packaging is assessed via mass spring damper models which predict contact forces experienced during shipping and handling novel testing techniques are employed to gather information from drop tests and preliminary models are developed based on limited information imprecision in preliminary test results are quantified and multiple model options are considered ultimately this thesis presents a model development framework in which decision makers have systematic guidance for choosing optimal model development decisions

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the concepts investigated in this study stemmed from two things first a pilot study where we found that the static electricity simulator results coupled with the cpu pedagogical structure provided facilitated the articulation and sharing of ideas in a small group of three students from this we hypothesized that the simulator tools played a role in knowledge construction and we wanted to find out more about what role it played second the past ten years of research in mathematics and science education has led to the recognition of the importance of the instructional setting collaboration and cognitive tools in the construction of knowledge a tradition has emerged where researchers have begun to look at the individual s knowledge construction through a different lens than the knowledge that emerges through group interactions from this type of research we can learn about the knowledge construction of the individual and the knowledge construction of the group we can understand how the interactions within the group have influenced the knowledge development of the individual however we cannot learn about how the individual influences the group parameters repeated interactions between individuals and tools can fundamentally change the social and material setting we need to look at how the social and material setting changes as a result of the individuals interaction with it and how this changing social setting influences the conceptual development of the individual investigating interdependent interaction between the individual and the social and material setting is the foundation for this work i believe that understanding learning requires more than understanding the individual and understanding the social environment of which he was a part understanding learning means understanding how the individual changes the social and material setting and how these changes influence the individual this dissertation is devoted to understanding individuals learning the factors that influenced it and further understanding how these factors were determined by the knowledge evolution of the individual

trb s national cooperative highway research program nchrp report 775 applying gps data to understand travel behavior volume i background methods and tests describes the research process that was used to develop guidelines on the use of multiple sources of global positioning system gps data to understand travel behavior and activity the guidelines which are included in nchrp report 775 volume ii are intended to provide a jump start for processing gps data for travel behavior purposes and provide key information elements that practitioners should consider when using gps data publisher s note

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