

Simulation Foundations, Methods and Applications

Okan Topçu
Umut Durak
Halit Oğuztüzün
Levent Yılmaz

Distributed Simulation

A Model Driven Engineering Approach

 Springer

Distributed Simulation A Model Driven Engineering Approach Simulation Foundations Methods And Applications

**Sami Beydeda, Matthias Book, Volker
Gruhn**



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Distributed Simulation Okan Topçu,Umut Durak,Halit Oğuztüzün,Levent Yilmaz,2016-01-27 This unique text reference provides a comprehensive review of distributed simulation DS from the perspective of Model Driven Engineering MDE illustrating how MDE affects the overall lifecycle of the simulation development process Numerous practical case studies are included to demonstrate the utility and applicability of the methodology many of which are developed from tools available to download from the public domain Topics and features Provides a thorough introduction to the fundamental concepts principles and processes of modeling and simulation MDE and high level architecture Describes a road map for building a DS system in accordance with the MDE perspective and a technical framework for the development of conceptual models Presents a focus on federate simulation environment architectures detailing a practical approach to the design of federations i e simulation member design Discusses the main activities related to scenario management in DS and explores the process of MDE based implementation integration and testing Reviews approaches to simulation evolution and modernization including architecture driven modernization for simulation modernization Examines the potential synergies between the agent DS and MDE methodologies suggesting avenues for future research at the intersection of these three fields Distributed Simulation A Model Driven Engineering Approach is an important resource for all researchers and practitioners involved in modeling and simulation and software engineering who may be interested in adopting MDE principles when developing complex DS systems

Advancements in Model-Driven Architecture in Software Engineering Rhazali, Yassine,2020-09-18 An integral element of software engineering is model engineering They both endeavor to minimize cost time and risks with quality software As such model engineering is a highly useful field that demands in depth research on the most current approaches and techniques Only by understanding the most up to date research can these methods reach their fullest potential Advancements in Model Driven Architecture in Software Engineering is an essential publication that prepares readers to exercise modeling and model transformation and covers state of the art research and developments on various approaches for methodologies and platforms of model driven architecture applications and software development of model driven architecture modeling languages and modeling tools Highlighting a broad range of topics including cloud computing service oriented architectures and modeling languages this book is ideally designed for engineers programmers software designers entrepreneurs researchers academicians and students

Economics of Grids, Clouds, Systems, and Services Karim Djemame,Jörn Altmann,José Ángel Bañares,Orna Agmon Ben-Yehuda,Vlado Stankovski,Bruno Tuffin,2020-12-04 This book constitutes the refereed proceedings of the 17th International Conference on Economics of Grids Clouds Systems and Services GECON 2020 held in Izola Slovenia in September 2020 Due to COVID 19 pandemic the conference was held virtually by the University of Ljubljana The 11 full papers and 9 short papers presented in this book

were carefully reviewed and selected from 40 submissions The papers are structured in selected topics namely Smartness in Distributed Systems Decentralizing Clouds to Deliver Intelligence at the Edge Digital Infrastructures for Pandemic Response and Countermeasures Dependability and Sustainability Economic Computing and Storage Poster Session

Model Engineering for Simulation Lin Zhang, Bernard P. Zeigler, Yuanjun Lai, 2019-02-27 Model Engineering for Simulation provides a systematic introduction to the implementation of generic normalized and quantifiable modeling and simulation using DEVS formalism It describes key technologies relating to model lifecycle management including model description languages complexity analysis model management service oriented model composition quantitative measurement of model credibility and model validation and verification The book clearly demonstrates how to construct computationally efficient object oriented simulations of DEVS models on parallel and distributed environments Guides systems and control engineers in the practical creation and delivery of simulation models using DEVS formalism Provides practical methods to improve credibility of models and manage the model lifecycle Helps readers gain an overall understanding of model lifecycle management and analysis Supported by an online ancillary package that includes an instructors and student solutions manual

Concepts and Methodologies for Modeling and Simulation Levent Yilmaz, 2015-04-08 This comprehensive text presents cutting edge advances in the theory and methodology of modeling and simulation M presents a focus on advanced modeling methodologies reviews the reliability and quality assurance of models discusses the specification and simulation of human and social behavior including models of personality emotions conflict management perception and anticipation provides a survey of the body of knowledge in M highlights the foundations established by the pioneering work of Prof Tuncer

Software Architecture Matthias Galster, Patrizia Scandurra, Tommi Mikkonen, Pablo Oliveira Antonino, Elisa Yumi Nakagawa, Elena Navarro, 2024-08-31 This book constitutes the refereed proceedings of the 18th European Conference on Software Architecture ECSA 2024 held in Luxembourg City Luxembourg during September 2 6 2024 The 14 full research papers 3 experience report papers 7 short papers and 3 industry papers included in this book were carefully reviewed and selected from 89 submissions They were organized in topical sections as follows Architecture modeling and design Architecture evaluation Microservices architecture Sustainability Trustworthiness Architecture decision making and Architecture documentation

Formal Methods for Model-Driven Engineering Marco Bernardo, Vittorio Cortellessa, Alfonso Pierantonio, 2012-06-26 This book presents 11 tutorial lectures by leading researchers given at the 12th edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2012 held in Bertinoro Italy in June 2012 SFM 2012 was devoted to model driven engineering and covered several topics including modeling languages model transformations functional and performance modeling and analysis and model evolution management

Process-Oriented Analysis and Validation of Multi-Agent-Based Simulations Nicolas Denz, 2014-12-31 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

SDL 2017: Model-Driven Engineering for Future Internet Tibor Csöndes, Gábor Kovács, György Réthy, 2017-09-25 This book constitutes the proceedings of the 18th International System Design Language Forum SDL 2017 held in Budapest Hungary in October 2017 The 10 full papers presented in this volume were carefully reviewed and selected from 17 submissions The selected papers cover a wide spectrum of topics related to system design languages ranging from the system design language usage to UML and GRL models model driven engineering of database queries network service design and regression testing and modeling for Internet of Things IoT data processing

Body of Knowledge for Modeling and Simulation Tuncer Ören, Bernard P. Zeigler, Andreas Tolk, 2023-01-27 Commissioned by the Society for Modeling and Simulation International SCS this needed useful new Body of Knowledge BoK collects and organizes the common understanding of a wide collection of professionals and professional associations Modeling and simulation M S is a ubiquitous discipline that lays the computational foundation for real and virtual experimentation clearly stating boundaries and interactions of systems data and representations The field is well known too for its training support via simulations and simulators Indeed with computers increasingly influencing the activities of today s world M S is the third pillar of scientific understanding taking its place along with theory building and empirical observation This valuable new handbook provides intellectual support for all disciplines in analysis design and optimization It contributes increasingly to the growing number of computational disciplines addressing the broad variety of contributing as well as supported disciplines and application domains Further each of its sections provide numerous references for further information Highly comprehensive the BoK represents many viewpoints and facets captured under such topics as Mathematical and Systems Theory Foundations Simulation Formalisms and Paradigms Synergies with Systems Engineering and Artificial Intelligence Multidisciplinary Challenges Ethics and Philosophy Historical Perspectives Examining theoretical as well as practical challenges this unique volume addresses the many facets of M S for scholars students and practitioners As such it affords readers from all science

engineering and arts disciplines a comprehensive and concise representation of concepts terms and activities needed to explain the M S discipline Tuncer ren is Professor Emeritus at the University of Ottawa Bernard Zeigler is Professor Emeritus at the University of Arizona Andreas Tolk is Chief Scientist at The MITRE Corporation All three editors are long time members and Fellows of the Society for Modeling and Simulation International Under the leadership of three SCS Fellows Dr ren University of Ottawa Dr Zeigler The University of Arizona and Dr Tolk The MITRE Corporation more than 50 international scholars from 15 countries provided insights and experience to compile this initial M S Body of Knowledge

Simulation for Cyber-Physical Systems Engineering José L. Risco Martín, Saurabh Mittal, Tuncer Ören, 2020-11-07 This comprehensive book examines a range of examples prepared by a diverse group of academic and industry practitioners which demonstrate how cloud based simulation is being extensively used across many disciplines including cyber physical systems engineering This book is a compendium of the state of the art in cloud based simulation that instructors can use to inform the next generation It highlights the underlying infrastructure modeling paradigms and simulation methodologies that can be brought to bear to develop the next generation of systems for a highly connected society Such systems aptly termed cyber physical systems CPS are now widely used in e g transportation systems smart grids connected vehicles industrial production systems healthcare education and defense Modeling and simulation M S along with big data technologies are at the forefront of complex systems engineering research The disciplines of cloud based simulation and CPS engineering are evolving at a rapid pace but are not optimally supporting each other s advancement This book brings together these two communities which already serve multi disciplinary applications It provides an overview of the simulation technologies landscape and of infrastructure pertaining to the use of cloud based environments for CPS engineering It covers the engineering design and application of cloud simulation technologies and infrastructures applicable for CPS engineering The contributions share valuable lessons learned from developing real time embedded and robotic systems deployed through cloud based infrastructures for application in CPS engineering and IoT enabled society The coverage incorporates cloud based M S as a medium for facilitating CPS engineering and governance and elaborates on available cloud based M S technologies and their impacts on specific aspects of CPS engineering

Guide to Distributed Simulation with HLA Okan Topçu, Halit Oğuztüzün, 2017-07-27 This invaluable textbook reference provides a hands on guide to the application of good software development practices to the construction of distributed simulation systems with a particular focus on High Level Architecture HLA Emphasizing a learning by doing approach supported by examples the text offers practical advice on real world development issues for all engineers and programmers entering the field Topics and features explains how to rapidly develop an HLA federation offering an implemented sample for each service area of the HLA federate interface specification describes this implementation using the freely available software tools SimGe and RACoN provides numerous step by step examples code snippets and case studies as well as links to downloadable sample source code uses the Microsoft

NET platform and the C programming language in all examples and case studies includes review questions throughout the book for further study examines not only federate application development but also object model construction discusses the employment of HLA in multi agent simulations Providing an accessible introduction and all in one resource for HLA based distributed simulation development this book is an essential guide for students and practitioners training in distributed simulation and distributed interactive simulation

Relating System Quality and Software Architecture Ivan Mistrik,Rami Bahsoon,Peter Eeles,Roshanak Roshandel,Michael Stal,2014-07-30 System Quality and Software Architecture collects state of the art knowledge on how to intertwine software quality requirements with software architecture and how quality attributes are exhibited by the architecture of the system Contributions from leading researchers and industry evangelists detail the techniques required to achieve quality management in software architecting and the best way to apply these techniques effectively in various application domains especially in cloud mobile and ultra large scale internet scale architecture Taken together these approaches show how to assess the value of total quality management in a software development process with an emphasis on architecture The book explains how to improve system quality with focus on attributes such as usability maintainability flexibility reliability reusability agility interoperability performance and more It discusses the importance of clear requirements describes patterns and tradeoffs that can influence quality and metrics for quality assessment and overall system analysis The last section of the book leverages practical experience and evidence to look ahead at the challenges faced by organizations in capturing and realizing quality requirements and explores the basis of future work in this area Explains how design decisions and method selection influence overall system quality and lessons learned from theories and frameworks on architectural quality Shows how to align enterprise system and software architecture for total quality Includes case studies experiments empirical validation and systematic comparisons with other approaches already in practice

Model-Driven Software Development Sami Beydeda,Matthias Book,Volker Gruhn,2005-11-11 Abstraction is the most basic principle of software engineering Abstractions are provided by models Modeling and model transformation constitute the core of model driven development Models can be refined and finally be transformed into a technical implementation i e a software system The aim of this book is to give an overview of the state of the art in model driven software development Achievements are considered from a conceptual point of view in the first part while the second part describes technical advances and infrastructures Finally the third part summarizes experiences gained in actual projects employing model driven development Beydeda Book and Gruhn put together the results from leading researchers in this area both from industry and academia The result is a collection of papers which gives both researchers and graduate students a comprehensive overview of current research issues and industrial forefront practice as promoted by OMG s MDA initiative

Correct Software in Web Applications and Web Services Bernhard Thalheim,Klaus-Dieter Schewe,Andreas Prinz,Bruno Buchberger,2015-06-12 The papers in this volume aim at obtaining a common understanding of

the challenging research questions in web applications comprising web information systems web services and web interoperability obtaining a common understanding of verification needs in web applications achieving a common understanding of the available rigorous approaches to system development and the cases in which they have succeeded identifying how rigorous software engineering methods can be exploited to develop suitable web applications and at developing a European scale research agenda combining theory methods and tools that would lead to suitable web applications with the potential to implement systems for computation in the public domain

Ontology, Epistemology, and Teleology for Modeling and Simulation Andreas Tolk, 2012-08-10 In this book internationally recognized experts in philosophy of science computer science and modeling and simulation are contributing to the discussion on how ontology epistemology and teleology will contribute to enable the next generation of intelligent modeling and simulation applications It is well understood that a simulation can provide the technical means to display the behavior of a system over time including following observed trends to predict future possible states but how reliable and trustworthy are such predictions The questions about what we can know ontology how we gain new knowledge epistemology and what we do with this knowledge teleology are therefore illuminated from these very different perspectives as each experts uses a different facet to look at these challenges The result of bringing these perspectives into one book is a challenging compendium that gives room for a spectrum of challenges from general philosophy questions such as can we use modeling and simulation and other computational means at all to discover new knowledge down to computational methods to improve semantic interoperability between systems or methods addressing how to apply the recent insights of service oriented approaches to support distributed artificial intelligence As such this book has been compiled as an entry point to new domains for students scholars and practitioners and to raise the curiosity in them to learn more to fully address the topics of ontology epistemology and teleology from philosophical computational and conceptual viewpoints

Proceedings of the ACM SIGSOFT Symposium on Software Reusability, 1999

Handbook of Research on Embedded Systems Design Bagnato, Alessandra, Indrusiak, Leandro Soares, Quadri, Imran Rafiq, Rossi, Matteo, 2014-06-30 As real time and integrated systems become increasingly sophisticated issues related to development life cycles non recurring engineering costs and poor synergy between development teams will arise The Handbook of Research on Embedded Systems Design provides insights from the computer science community on integrated systems research projects taking place in the European region This premier references work takes a look at the diverse range of design principles covered by these projects from specification at high abstraction levels using standards such as UML and related profiles to intermediate design phases This work will be invaluable to designers of embedded software academicians students practitioners professionals and researchers working in the computer science industry

Software Architecture Volker Gruhn, Flavio Oquendo, 2006-12-06 This book constitutes the refereed post proceedings of the Third European Workshop on Software Architecture EWSA 2006 held in France in

September 2006 The 13 revised full research papers and five revised position papers presented together with one invited talk were carefully reviewed and selected All current aspects of software architectures are addressed ranging from foundational and methodological issues to application issues of practical relevance

Formal and Practical Aspects of Domain-Specific Languages: Recent Developments Mernik, Marjan, 2012-09-30 This book presents current research on all aspects of domain specific language for scholars and practitioners in the software engineering fields providing new results and answers to open problems in DSL research

Distributed Simulation A Model Driven Engineering Approach Simulation Foundations Methods And Applications: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Distributed Simulation A Model Driven Engineering Approach Simulation Foundations Methods And Applications : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Distributed Simulation A Model Driven Engineering Approach Simulation Foundations Methods And Applications : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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