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Collaborative Design for Embedded Systems

Co-modelling and Co-simulation



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Collaborative Design For Embedded Systems Co Modelling And Co Simulation

**John Fitzgerald, Cláudio Gomes, Peter
Gorm Larsen**



Collaborative Design For Embedded Systems Co Modelling And Co Simulation:

Collaborative Design for Embedded Systems John Fitzgerald,Peter Gorm Larsen,Marcel Verhoef,2014-05-31

Collaborative Design for Embedded Systems John Fitzgerald,Peter Gorm Larsen,Marcel Verhoef,2014-04-23 One of the most significant challenges in the development of embedded and cyber physical systems is the gap between the disciplines of software and control engineering In a marketplace where rapid innovation is essential engineers from both disciplines need to be able to explore system designs collaboratively allocating responsibilities to software and physical elements and analyzing trade offs between them To this end this book presents a framework that allows the very different kinds of design models discrete event DE models of software and continuous time CT models of the physical environment to be analyzed and simulated jointly based on common scenarios The individual chapters provide introductions to both sides of this co simulation technology and give a step by step guide to the methodology for designing and analyzing co models They are grouped into three parts Part I introduces the technical basis for collaborative modeling and simulation with the Crescendo technology Part II continues with different methodological guidelines for creating co models and analyzing them in different ways using case studies Part III then delves into more advanced topics and looks into the potential future of this technology in the area of cyber physical systems Finally various appendices provide summaries of the VDM and 20 sim technologies a number of valuable design patterns applicable for co models and an acronym list along with indices and references to other literature By combining descriptions of the underlying theory with records of real engineers experience in using the framework on a series of case studies the book appeals to scientists and practitioners alike It is complemented by tools examples videos and other material on www.crescendotool.org Scientists researchers and graduate students working in embedded and cyber physical systems will learn the semantic foundations for collaborative modeling and simulation as well as the current capabilities and limitations of methods and tools in this field Practitioners will be able to develop an appreciation of the capabilities of the co modeling techniques to assess the benefits of more collaborative approaches to modeling and simulation and will benefit from the included guidelines and modeling patterns *Simulation and Modeling Methodologies, Technologies and Applications* Mohammad S. Obaidat,Tuncer Ören,Florian De Rango,2018-11-20 This book highlights a set of selected revised and extended papers from the 7th International Conference on Simulation and Modeling Methodologies Technologies and Applications SIMULTECH 2017 held in Madrid Spain on July 26 to 28 2017 The conference brought together researchers engineers and practitioners whose work involves methodologies in and applications of modeling and simulation The papers showcased here represent the very best papers from the Conference and report on a broad range of new and innovative solutions *Model-Based Engineering of Collaborative Embedded Systems* Wolfgang Böhm,Manfred Broy,Cornel Klein,Klaus Pohl,Bernhard Rumpe,Sebastian Schröck,2020-12-14 This Open Access book presents the results of the Collaborative Embedded Systems CrESt project aimed at adapting and complementing the methodology underlying

modeling techniques developed to cope with the challenges of the dynamic structures of collaborative embedded systems CESs based on the SPES development methodology In order to manage the high complexity of the individual systems and the dynamically formed interaction structures at runtime advanced and powerful development methods are required that extend the current state of the art in the development of embedded systems and cyber physical systems The methodological contributions of the project support the effective and efficient development of CESs in dynamic and uncertain contexts with special emphasis on the reliability and variability of individual systems and the creation of networks of such systems at runtime The project was funded by the German Federal Ministry of Education and Research BMBF and the case studies are therefore selected from areas that are highly relevant for Germany's economy automotive industrial production power generation and robotics It also supports the digitalization of complex and transformable industrial plants in the context of the German government's Industry 4.0 initiative and the project results provide a solid foundation for implementing the German government's high tech strategy Innovations for Germany in the coming years

Collaborative Systems for Smart Networked Environments Luis M. Camarinha-Matos, Hamideh Afsarmanesh, 2014-10-01 This book constitutes the refereed proceedings of the 15th IFIP WG 5.5 Working Conference on Virtual Enterprises PRO VE 2014 held in Amsterdam The Netherlands in October 2014 The 73 revised papers were carefully selected from 190 submissions They provide a comprehensive overview of identified challenges and recent advances in various collaborative network CN domains and their applications with a particular focus on the following areas in support of smart networked environments behavior and coordination product service systems service orientation in collaborative networks engineering and implementation of collaborative networks cyber physical systems business strategies alignment innovation networks sustainability and trust reference and conceptual models collaboration platforms virtual reality and simulation interoperability and integration performance management frameworks performance management systems risk analysis optimization in collaborative networks knowledge management in networks health and care networks and mobility and logistics

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 multidisciplinary 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.

Software Engineering and Formal Methods Antonio Cerone, Marco Roveri, 2018-02-01. This book constitutes revised selected papers from the five workshops collocated with the 15th International Conference on Software Engineering and Formal Methods SEFM 2017. The 38 papers presented in this volume were carefully reviewed and selected from a total of 55 submissions. They stem from the following workshops: DataMod 2017 6th International Symposium From Data to Models and Back FAACS 2017 1st Workshop on Formal Approaches for Advanced Computing Systems MSE 2017 1st Workshop on Microservices Science and Engineering CoSim CPS 2017 1st Workshop on Formal Co-Simulation of Cyber Physical Systems FOCLASA 2017 15th International Workshop on Foundations Of Coordination Languages and Self-Adaptive Systems.

Rewriting Logic and Its Applications Kyungmin Bae, 2022-07-29. This book constitutes selected papers from the refereed proceedings of the 14th International Workshop on Rewriting Logic and Its Applications WRLA 2022 held in Munich, Germany, in April 2022. The 9 full papers included in this book were carefully reviewed and selected from 13 submissions. They focus on topics in rewriting logic and its applications. The book also contains 2 invited papers, 2 invited tutorials, and an experience report.

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 reference 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.

Model and Data Engineering Christian Attiogbé, Sadok Ben Yahia, 2021-06-14. This book constitutes the refereed proceedings of the 10th International Conference on Model and Data Engineering MEDI 2021 held in Tallinn, Estonia, in June 2021. The 16 full papers and 8 short papers presented in this book were carefully reviewed and selected from 47 submissions. Additionally, the volume includes 3 abstracts of invited talks. The papers cover broad research

areas on both theoretical systems and practical aspects Some papers include mining complex databases concurrent systems machine learning swarm optimization query processing semantic web graph databases formal methods model driven engineering blockchain cyber physical systems IoT applications and smart systems Due to the Corona pandemic the conference was held virtually *Cyber-Physical Systems: Advances in Design & Modelling* Alla G. Kravets, Alexander A. Bolshakov, Maxim V. Shcherbakov, 2019-11-25 This book presents new findings on cyber physical systems design and modelling approaches based on AI and data driven techniques identifying the key industrial challenges and the main features of design and modelling processes To enhance the efficiency of the design process it proposes new approaches based on the concept of digital twins Further it substantiates the scientific practical and methodological approaches to modelling and simulating of cyber physical systems Exploring digital twins of cyber physical systems as well as of production systems it proposes combining both mathematical models and data processing techniques as advanced methods for cyber physical system design and modelling Moreover it presents the implementation of the developed prototypes including testing in real industries which have collected and analyzed big data and proved their effectiveness The book is intended for practitioners enterprise representatives scientists and Ph D and master s students interested in the research and applications of cyber physical systems in different domains

Leveraging Applications of Formal Methods, Verification and Validation: Discussion, Dissemination, Applications Tiziana Margaria, Bernhard Steffen, 2016-10-04 The two volume set LNCS 9952 and LNCS 9953 constitutes the refereed proceedings of the 7th International Symposium on Leveraging Applications of Formal Methods Verification and Validation ISoLA 2016 held in Imperial Corfu Greece in October 2016 The papers presented in this volume were carefully reviewed and selected for inclusion in the proceedings Featuring a track introduction to each section the papers are organized in topical sections named statistical model checking evaluation and reproducibility of program analysis and verification ModSyn PP modular synthesis of programs and processes semantic heterogeneity in the formal development of complex systems static and runtime verification competitors or friends rigorous engineering of collective adaptive systems correctness by construction and post hoc verification friends or foes privacy and security issues in information systems towards a unified view of modeling and programming formal methods and safety certification challenges in the railways domain RVE runtime verification and enforcement the industrial application perspective variability modeling for scalable software evolution detecting and understanding software doping learning systems machine learning in software products and learning based analysis of software systems testing the internet of things doctoral symposium industrial track RERS challenge and STRESS

Integrated Formal Methods Dominique Méry, Stephan Merz, 2010-10-06 This book constitutes the refereed proceedings of the 8th International Conference on Integrated Formal Methods IFM 2010 held in Nancy France in October 2010 The 20 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 59 submissions The papers address the spectrum of integrated formal methods ranging from

formal and semiformal notations semantics refinement verification and model transformations to type systems logics tools and case studies Trustworthy Cyber-Physical Systems Engineering Alexander Romanovsky,Fuyuki Ishikawa,2016-10-03 Focuses on various issues related to engineering trustworthy cyber physical systems Contributes to the improved understanding of system concepts and standardization and presents a research roadmap Emphasizes tool supported methods and focuses on practical issues faced by practitioners Covers the experience of deploying advanced system engineering methods in industry Includes contributions from leading international experts Offers supplementary material on the book website <http://research.nii.ac.jp/tcps> **Multi-Paradigm Modelling Approaches for Cyber-Physical Systems** Bedir Tekinerdogan,Dominique Blouin,Hans Vangheluwe,Miguel Goulão,Paulo Carreira,Vasco Amaral,2020-11-20 Multi Paradigm Modelling for Cyber Physical Systems explores modeling and analysis as crucial activities in the development of Cyber Physical Systems which are inherently cross disciplinary in nature and require distinct modeling techniques related to different disciplines as well as a common background knowledge This book will serve as a reference for anyone starting in the field of CPS who needs a solid foundation of modeling including a comprehensive introduction to existing techniques and a clear explanation of their advantages and limitations This book is aimed at both researchers and practitioners who are interested in various modeling paradigms across computer science and engineering Identifies key problems and offers solution approaches as well as tools which have been developed or are necessary for modeling paradigms across cyber physical systems Explores basic theory and current research topics related challenges and research directions for multi paradigm modeling Provides a complete conceptual overview and framework of the research done by the MPM4CPS working groups and the different types of modeling paradigms developed *The Engineering of Digital Twins* John Fitzgerald,Cláudio Gomes,Peter Gorm Larsen,2024-08-24 This book is about the engineering of Digital Twins DTs of cyber physical systems CPSs It goes behind the glossy image of DTs to help researchers and advanced professionals to ask and answer the fundamental questions underpinning the development of a DT What are the foundational concepts of the DT How do different engineering disciplines interact in creating a DT How should the physical and digital worlds be connected and how do the imperfections and faults inherent in both worlds affect the DT's qualities How can we use a DT to support decisions and how do we maintain it through life To this end the book is structured in five parts Foundations introduces the DT concept the potential benefits of DTs seen from a business perspective and foundations for DT engineering Models and Data presents the range of models and data that form the core assets of DTs for CPSs It covers ways in which models can be produced and calibrated and considers how data is derived from a CPS and communicated to its DT Next Services for Digital Twins details some of the main services that a DT provides by building on the assets of models and data including visualisation fault detection and diagnosis and support for decision making Realising Digital Twins then covers the realisation of DTs including a platform allowing engineers to construct DTs from reusable components Case studies in food production

robotics and marine engineering are presented using a systematic framework that aligns with the DT engineering concepts introduced in the earlier parts of the book Eventually Advanced Topics in Digital Twins introduces advanced topics in delivering dependable DT enabled systems focusing on security and privacy the capacity for autonomy and a range of open research topics This book aims at researchers in DT technology and design including advanced master and doctoral students as well as engineering practitioners aiming to develop DTs The most common techniques described in the main text will be accessible via open source projects including further DT examples exercises and solutions as well as pointers to emerging standards frameworks and platforms Classroom materials exercises and solutions are available to lecturers through a dedicated Web site

Software Engineering in Health Care Michaela Huhn,Laurie Williams,2017-07-26 This book constitutes revised selected papers from the jointly held conferences FHIES 2014 4th International Symposium on Foundations of Health Information Engineering and Systems and SEHC 2014 6th International Workshop on Software Engineering in Health Care The meeting took place in Washington DC USA in July 2014 The 16 papers presented in this volume were carefully reviewed and selected from 23 submissions They deal with security aspects of health information systems medical devices in cyberphysical systems the process of providing healthcare and of monitoring patients and patient safety and the assurance of medical systems

Behavioral Modeling for Embedded Systems and Technologies: Applications for Design and Implementation Gomes, Luis,Fernandes, Jo?o M.,2009-07-31 This book provides innovative behavior models currently used for developing embedded systems accentuating on graphical and visual notations Provided by publisher

Transportation Cyber-Physical Systems Lipika Deka,Mashrur Chowdhury,2018-07-30 Transportation Cyber Physical Systems provides current and future researchers developers and practitioners with the latest thinking on the emerging interdisciplinary field of Transportation Cyber Physical Systems TCPS The book focuses on enhancing efficiency reducing environmental stress and meeting societal demands across the continually growing air water and land transportation needs of both people and goods Users will find a valuable resource that helps accelerate the research and development of transportation and mobility CPS driven innovation for the security reliability and stability of society at large The book integrates ideas from Transport and CPS experts and visionaries consolidating the latest thinking on the topic As cars traffic lights and the built environment are becoming connected and augmented with embedded intelligence it is important to understand how smart ecosystems that encompass hardware software and physical components can help sense the changing state of the real world Bridges the gap between the transportation CPS and civil engineering communities Includes numerous examples of practical applications that show how diverse technologies and topics are integrated in practice Examines timely state of the art topics such as big data analytics privacy cybersecurity and smart cities Shows how TCPS can be developed and deployed along with its associated challenges Includes pedagogical aids such as Illustrations of application scenarios architecture details tables describing available methods and tools chapter objectives and a glossary Contains

international contributions from academia government and industry **Security in Cyber-Physical Systems** Ali Ismail Awad, Steven Furnell, Marcin Paprzycki, Sudhir Kumar Sharma, 2021-03-05 This book is a relevant reference for any readers interested in the security aspects of Cyber Physical Systems and particularly useful for those looking to keep informed on the latest advances in this dynamic area Cyber Physical Systems CPSs are characterized by the intrinsic combination of software and physical components Inherent elements often include wired or wireless data communication sensor devices real time operation and automated control of physical elements Typical examples of associated application areas include industrial control systems smart grids autonomous vehicles and avionics medial monitoring and robotics The incarnation of the CPSs can therefore range from considering individual Internet of Things devices through to large scale infrastructures Presented across ten chapters authored by international researchers in the field from both academia and industry this book offers a series of high quality contributions that collectively address and analyze the state of the art in the security of Cyber Physical Systems and related technologies The chapters themselves include an effective mix of theory and applied content supporting an understanding of the underlying security issues in the CPSs domain alongside related coverage of the technological advances and solutions proposed to address them The chapters comprising the later portion of the book are specifically focused upon a series of case examples evidencing how the protection concepts can translate into practical application

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