

Meta-Modeling

Performance and Information Modeling

Edited by

Jean-Michel Bergé, Oz Levia and Jacques Rouillard



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Meta Modeling Performance And Information Modeling

**American Institute of Aeronautics and
Astronautics**



Meta Modeling Performance And Information Modeling:

Meta-Modeling Jean-Michel Bergé, Oz Levia, Jacques Rouillard, 2012-12-06 Models in system design follow the general tendency in electronics in terms of size complexity and difficulty of maintenance While a model should be a manageable representation of a system this increasing complexity sometimes forces current CAD tool designers and model writers to apply modeling techniques to the model itself Model writers are interested in instrumenting their model so as to extract critical information before the model is complete CAD tools designers use internal representations of the design at various stages The complexity has also led CAD tool developers to develop formal tools theories and methods to improve relevance completeness and consistency of those internal representations Information modeling involves the representation of objects their properties and relationships Performance Modeling When it comes to design choices and trade offs performance is generally the final key However performance estimations have to be extracted at a very early stage in the system design Performance modeling concerns the set of tools and techniques that allow or help the designer to capture metrics relating to future architectures Performance modeling encompasses the whole system including software modeling It has a strong impact on all levels of design choices from hardware software partitioning to the final layout Information Modeling Specification and formalism have in the past traditionally played little part in the design and development of EDA systems their support environments languages and processes Instead EDA system developers and EDA system users have seemed to be content to operate within environments that are often extremely complex and may be poorly tested and understood This situation has now begun to change with the increasing use of techniques drawn from the domains of formal specification and database design This section of this volume addresses aspects of the techniques being used In particular it considers a specific formalism called information modeling which has gained increasing acceptance recently and is now a key part of many of the proposals in the EDA Standards Roadmap which promises to be of significance to the EDA industry In addition the section looks at an example of a design system from the point of view of its underlying understanding of the design process rather than through a consideration of particular CAD algorithms Meta Modeling Performance and Information Modeling contains papers describing the very latest techniques used in meta modeling It will be a valuable text for researchers practitioners and students involved in Electronic Design Automation

Object-Oriented Modeling Jean-Michel Bergé, Oz Levia, Jacques Rouillard, 2012-12-06 Object oriented techniques and languages have been proven to significantly increase engineering efficiency in software development Many benefits are expected from their introduction into electronic modeling Among them are better support for model reusability and flexibility more efficient system modeling and more possibilities in design space exploration and prototyping Object Oriented Modeling explores the latest techniques in object oriented methods formalisms and hardware description language extensions The seven chapters comprising this book provide an overview of the latest object oriented techniques for designing systems and hardware Many examples are given in

C VHDL and real time programming languages Object Oriented Modeling describes further the use of object oriented techniques in applications such as embedded systems telecommunications and real time systems using the very latest techniques in object oriented modeling It is an essential guide to researchers practitioners and students involved in software hardware and system design **Models in System Design** Jean-Michel Bergé,Oz Levia,Jacques Rouillard,2012-12-06 Models in System Design tracks the general trend in electronics in terms of size complexity and difficulty of maintenance System design is by nature combined with prototyping mixed domain design and verification and it is no surprise that today s modeling and models are used in various levels of system design and verification In order to deal with constraints induced by volume and complexity new methods and techniques have been defined Models in System Design provides an overview of the latest modeling techniques for use by system designers The first part of the book considers system level design discussing such issues as abstraction performance and trade offs There is also a section on automating system design The second part of the book deals with some of the newest aspects of embedded system design These include co verification and prototyping Finally the book includes a section on the use of the MCSE methodology for hardware software co design Models in System Design will help designers and researchers to understand these latest techniques in system design and as such will be of interest to all involved in embedded system design **Hardware/Software Co-Design and Co-Verification** Jean-Michel Bergé,Oz Levia,Jacques Rouillard,2013-03-09 Co Design is the set of emerging techniques which allows for the simultaneous design of Hardware and Software In many cases where the application is very demanding in terms of various performances time surface power consumption trade offs between dedicated hardware and dedicated software are becoming increasingly difficult to decide upon in the early stages of a design Verification techniques such as simulation or proof techniques that have proven necessary in the hardware design must be dramatically adapted to the simultaneous verification of Software and Hardware Describing the latest tools available for both Co Design and Co Verification of systems Hardware Software Co Design and Co Verification offers a complete look at this evolving set of procedures for CAD environments The book considers all trade offs that have to be made when co designing a system Several models are presented for determining the optimum solution to any co design problem including partitioning architecture synthesis and code generation When deciding on trade offs one of the main factors to be considered is the flow of communication especially to and from the outside world This involves the modeling of communication protocols An approach to the synthesis of interface circuits in the context of co design is presented Other chapters present a co design oriented flexible component data base and retrieval methods a case study of an ethernet bridge designed using LOTOS and co design methodologies and finally a programmable user interface based on monitors Hardware Software Co Design and Co Verification will help designers and researchers to understand these latest techniques in system design and as such will be of interest to all involved in embedded system design **Analog and Mixed-Signal Hardware Description Language** A. Vachoux,Jean-Michel Bergé,Oz Levia,Jacques Rouillard,2012-12-06

Hardware description languages HDL such as VHDL and Verilog have found their way into almost every aspect of the design of digital hardware systems Since their inception they gradually proved to be an essential part of modern design methodologies and design automation tools ever exceeding their original goals of being description and simulation languages Their use for automatic synthesis formal proof and testing are good examples So far HDLs have been mainly dealing with digital systems However integrated systems designed today require more and more analog parts such as A/D and D/A converters phase locked loops current mirrors etc The verification of the complete system therefore asks for the use of a single language Using VHDL or Verilog to handle analog descriptions is possible as it is shown in this book but the real power is coming from true mixed signal HDLs that integrate discrete and continuous semantics into a unified framework Analog HDLs AHDL are considered here a subset of mixed signal HDLs as they intend to provide the same level of features as HDLs do but with a scope limited to analog systems possibly with limited support of discrete semantics Analog and Mixed Signal Hardware Description Languages covers several aspects related to analog and mixed signal hardware description languages including The use of a digital HDL for the description and the simulation of analog systems The emergence of extensions of existing standard HDLs that provide true analog and mixed signal HDLs The use of analog and mixed signal HDLs for the development of behavioral models of analog electronic building blocks operational amplifier PLL and for the design of microsystems that do not only involve electronic parts The use of a front end tool that eases the description task with the help of a graphical paradigm yet generating AHDL descriptions automatically Analog and Mixed Signal Hardware Description Languages is the first book to show how to use these new hardware description languages in the design of electronic components and systems It is necessary reading for researchers and designers working in electronic design

Fourth International Workshop on Hardware/Software Co-Design, Codes/CASHE '96 Donald E. Thomas, Rolf Ernst, 1996
Embedded architecture co synthesis and system integration B Lin S Vercauteren and H De Man A multi level transformation approach to HW SW codesign a case study T K Y Cheung G Hellestrand and P Kanthamanon Fully parallel hardware software codesign for multi dimensional DSP applications M Sheliga N L Passos and E H M Sha A co design methodology based on formal specification and high level estimation C Carreras and others Speed up estimation for HW SW systems W Hardt and W Rosenstiel A framework for interactive analysis of timing constraints in embedded systems R K Gupta The interplay of run time estimation and granularity in HW SW partitioning J Henkel and R Ernst Partitioning and exploration strategies in the TOSCA co design flow A Balboni W Fornaciari and D Sciuto Process partitioning for distributed embedded systems J Hou and W Wolf Two level partitioning of image processing algorithms for the parallel map oriented machine R W Hartenstein J Becker and R Kress PACE a dynamic programming algorithm for hardware software partitioning P V Knudsen and J Madsen A model for the coanalysis of hardware and software architectures F Rose and others A case study in co design of communication controllers R Gerndt Formal verification of embedded systems based on CFSM networks F Balarin and others

Towards a model for hardware and software functional partitioning F Vahid and T dm Le Implications of codesign as a natural constituent of a systems engineering discipline for computer based systems M Voss and O Hammerschmidt Uninterpreted co simulation for performance evaluation of HW SW systems J P Calvez D Heller and O Pasquier Fast and accurate hardware software co simulation using software timing estimates C Passerone and others Meta-Modeling Jean-Michel Berge,Oz Levia,Jacques Rouillard,2014-01-15 **Proceedings** American Institute for Decision Sciences. Meeting,1979 **AIAA Journal** American Institute of Aeronautics and Astronautics,2005 **Semantic Mediation between Loosely Coupled Information Models in Service-Oriented Architectures** Nils Barnickel,2014-07-01 Doctoral Thesis Dissertation from the year 2011 in the subject Computer Science Commercial Information Technology grade Sehr gut Technical University of Berlin Fakult t IV Elektrotechnik und Informatik language English abstract The last two decades have shown a major shift from stand alone to networked information technology IT systems Consequently the effective and efficient achievement of interoperability is a key factor to enable seamless business process chains and networks across intra and inter organizational boundaries Thereby interoperability can be understood along three dimensions technical semantic and organizational interoperability While the concept of service oriented architectures SOA and widely accepted Web service standards have benefited technical interoperability in recent years substantially managing and integrating semantic differences in heterogeneous distributed environments remains critical and cost intensive In order to preserve the precise meaning as data is moved from one IT system to another explicit formal information models in terms of ontologies have evolved as the concept of choice from academia to first industry adoption However it has been recognized that the dominant approach of developing a common globally shared ontology as an information model standard has turned out to be limited in real world cross domain environments Organizational boundaries with regard to consensus degree and the complexity deriving from inherent domain specific differences in requirements force a coexistence of independently managed but however semantic interoperable information models In order to address this challenge the guiding idea of this work is to transfer the principle of loose coupling to the semantic level In particular the goal of this thesis is to contribute to the reduction of complexity in semantic system integration by developing an effective and efficient approach for semantic interoperability in large scale SOA landscapes based on semantic mediation between loosely coupled information models Moreover this work shows how emerging semantic technologies can contribute to the instantiation of this concept exploiting their capabilities to explicitly express semantics The developed approach is evaluated based on a case study of an exemplary distributed organization It is shown how the approach of semantic mediation between loosely coupled information models can be applied in practice and which benefits can be generated with regard to achieving effective and efficient semantic interoperability in large scale SOA landscapes *Subject Guide to Books in Print* ,1991 **Information Modeling in the New Millennium** Matti Rossi,Keng Siau,2001 This book reviews the state of the art and state of the practice of modeling

methods and methodologies in information systems development The book has sections on foundations of information modeling extended object oriented modeling and Web information systems modeling Information Modeling in the New Millennium addresses the gap between technical and business oriented modeling approaches by providing an integrative view of modeling different facets of ICT and organizations Proceedings of the ... ASME Design Engineering Technical Conferences ,2007 **Forthcoming Books** Rose Army,1997 SBCCI 2006 ,2006 **FEAC Certified Enterprise Architect CEA Study Guide** Prakash Rao,Ann Reedy,Beryl Bellman,2011-07-22 The best fully integrated study system available Filled with practice questions examples and illustrations FEAC Certified Enterprise Architect CEA Study Guide covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official objectives for the FEAC CEA exam Modeling techniques for enterprise architecture implementations Enterprise architecture case study Richard M Nixon Airport Simulated exam questions that match the format tone topics and difficulty of the real exam Covers all the exam topics including Enterprise Architecture Concepts Planning Implementing and Disseminating the EA Maintaining Governing and Using the EA All Viewpoint Strategic Capability Viewpoint Project Viewpoint Operational Viewpoint Systems Viewpoint Services Viewpoint Data and Information Viewpoint Technology and Standards Viewpoint EA in Government Defense and the Commercial Sector EA Tools and Repositories CD ROM includes CEA oriented practicums Practice exams for the FEAC FEAF and DoDAF programs and a list of study questions Major documentation for the FEAF and DoDAF programs E book for studying on the go Prakash Rao MS CEA is chief architect at Metadata Management Corporation He teaches Enterprise Architecture at the FEAC Institute Ann Reedy Ph D worked on the development and editing of the early version of the DoD Architecture Framework at MITRE and teaches DoD Architecture Framework for the FEAC Institute Beryl Bellman Ph D is co founder and academic director of the FEAC Institute and a tenured full professor of Communication Studies at California State University at Los Angeles He has more than 25 years consulting experience in the EA field **Models for the Analysis and Planning of Urban Systems** Alan Walter Steiss,1974 **Dissertation Abstracts International** ,2005 *Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conferences--2005* ,2005 **1996 IEEE Network Operations and Management Symposium, Kyoto, Japan** ,1996

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