

# **Meta-Modeling**

## **Performance and Information Modeling**

**Edited by**  
**Jean-Michel Bergé, Oz Levia and Jacques Rouillard**



**Current Issues in Electronic Modeling**

Kluwer Academic Publishers

# Meta Modeling Performance And Information Modeling

**Jean-Michel Bergé, Oz Levia, Jacques  
Rouillard**



## **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

*CONTROL SYSTEMS, ROBOTICS AND AUTOMATION - Volume IV* Heinz Unbehauen,2009-10-11 This Encyclopedia of Control Systems Robotics and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 22 volume set contains 240 chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Control Systems Robotics and Automation and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

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

**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

*Certifying Software Component Performance Specifications* Groenda, Henning,2014-07-30 In component based software engineering performance prediction approaches support the design of business information systems on the architectural level They are based on behavior specifications of components This work presents a round trip approach for using assessing and certifying the accuracy of parameterized probabilistic deterministic and concurrent performance specifications Its applicability and effectiveness are demonstrated using the CoCoME benchmark

**Service Level Agreements for Cloud Computing**

Philipp Wieder, Joe M. Butler, Wolfgang Theilmann, Ramin Yahyapour, 2011-11-06 Service Level Agreements for Cloud Computing provides a unique combination of business driven application scenarios and advanced research in the area of service level agreements for Clouds and service oriented infrastructures Current state of the art research findings are presented in this book as well as business ready solutions applicable to Cloud infrastructures or ERP Enterprise Resource Planning environments Service Level Agreements for Cloud Computing contributes to the various levels of service level management from the infrastructure over the software to the business layer including horizontal aspects like service monitoring This book provides readers with essential information on how to deploy and manage Cloud infrastructures Case studies are presented at the end of most chapters Service Level Agreements for Cloud Computing is designed as a reference book for high end practitioners working in cloud computing distributed systems and IT services Advanced level students focused on computer science will also find this book valuable as a secondary text book or reference **Progress and**

**Challenge of Porous Media: Proceedings of the 16th Annual Meeting Conference on Porous Media** Jun Yao, Yongfei Yang, Wendong Wang, Hai Sun, Lei Zhang, Kai Zhang, 2025-04-08 This book is a compilation of selected papers from the 16th Annual Meeting Conference on Porous Media InterPore 2024 The work focuses on novel techniques for porous media materials transport mechanisms in porous media multiscale multiphysics pore scale modeling and porous media mechanics The contents make valuable contributions to academic researchers engineers in the industry and regulators of aviation authorities As well readers will encounter new ideas for problems in porous media science and engineering Computer Performance Engineering Dieter Fiems, Marco Paolieri, Agapios N. Platis, 2016-09-15 This book constitutes the refereed proceedings of the 13th European Workshop on Computer Performance Engineering EPEW 2016 held in Chios Greece in October 2016 The 14 papers presented together with 2 invited talks in this volume were carefully reviewed and selected from 25 submissions The papers presented at the workshop reflect the diversity of modern performance engineering with topics ranging from the analysis of queueing networks and stochastic processes to performance analysis of computer systems and networks and even modeling of human behavior **Architectures for Adaptive Software Systems** Raffaella Mirandola, Ian Gorton, Christine Hofmeister, 2009-06-08 Much of a software architect's life is spent designing software systems to meet a set of quality requirements General software quality attributes include scalability security performance or reliability Quality attribute requirements are part of an application's non functional requirements which capture the many facets of how the functional requirements of an application are achieved Understanding modeling and continually evaluating quality attributes throughout a project lifecycle are all complex engineering tasks which continue to challenge the software engineering scientific community While we search for improved approaches methods formalisms and tools that are usable in practice and can scale to large systems the complexity of the applications that the software industry is challenged to build is ever increasing Thus as a research community there is little opportunity for us to rest on our laurels as our innovations that address new

aspects of system complexity must be deployed and validated To this end the 5th International Conference on the Quality of Software Architectures QoSA 2009 focused on architectures for adaptive software systems Modern software systems must often reconfigure their structure and behavior to respond to continuous changes in requirements and in their execution environment In these settings quality models are helpful at an architectural level to guide systematic model driven software development strategies by evaluating the impact of competing architectural choices

**New Trends in Information and Communications Technology Applications** Abbas M. Al-Bakry, Mouayad A. Sahib, Jaafar A. Aldhaibani, Ali N.

Al-Shuwaili, 2025-04-15 This book constitutes the refereed proceedings of the 8th National Conference on New Trends in Information and Communications Technology Applications NTICT 2024 held in Baghdad Iraq during December 18-19, 2024. The 17 full papers included in this book were carefully reviewed and selected from 54 submissions. They were organized in topical sections as follows: Machine learning and Evolutionary computing; Machine Learning and Principles and Practice of Knowledge Discovery in Databases; Michael Kamp, Irena Koprinska, Adrien Bibal, Tassadit Bouadi, Benoît Frénay, Luis Galárraga, José Oramas, Linara Adilova, Yamuna Krishnamurthy, Bo Kang, Christine Largeron, Jefrey Lijffijt, Tiphaine Viard, Pascal Welke, Massimiliano Ruocco, Erlend Aune, Claudio Gallicchio, Gregor Schiele, Franz Pernkopf, Michaela Blott, Holger Fröning, Günther Schindler, Riccardo Guidotti, Anna Monreale, Salvatore Rinzivillo, Przemyslaw Biecek, Eirini Ntoutsi, Mykola Pechenizkiy, Bodo Rosenhahn, Christopher Buckley, Daniela Cialfi, Pablo Lanillos, Maxwell Ramstead, Tim Verbelen, Pedro M. Ferreira, Giuseppina Andresini, Donato Malerba, Ibéria Medeiros, Philippe Fournier-Viger, M. Saqib Nawaz, Sebastian Ventura, Meng Sun, Min Zhou, Valerio Bitetta, Ilaria Bordino, Andrea Ferretti, Francesco Gullo, Giovanni Ponti, Lorenzo Severini, Rita Ribeiro, João Gama, Ricard Gavaldà, Lee Cooper, Naghmeh Ghazaleh, Jonas Richiardi, Damian Roqueiro, Diego Saldana Miranda, Konstantinos Sechidis, Guilherme Graça, 2022-02-17 This two volume set constitutes the refereed proceedings of the workshops which complemented the 21th Joint European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD held in September 2021. Due to the COVID-19 pandemic the conference and workshops were held online. The 104 papers were thoroughly reviewed and selected from 180 papers submitted for the workshops. This two volume set includes the proceedings of the following workshops: Workshop on Advances in Interpretable Machine Learning and Artificial Intelligence AIMLAI 2021; Workshop on Parallel Distributed and Federated Learning PDFL 2021; Workshop on Graph Embedding and Mining GEM 2021; Workshop on Machine Learning for Irregular Time series ML4ITS 2021; Workshop on IoT Edge and Mobile for Embedded Machine Learning ITEM 2021; Workshop on eXplainable Knowledge Discovery in Data Mining XKDD 2021; Workshop on Bias and Fairness in AI BIAS 2021; Workshop on Active Inference IWAI 2021; Workshop on Machine Learning for Cybersecurity MLCS 2021; Workshop on Machine Learning in Software Engineering MLiSE 2021; Workshop on Mining Data for financial applications MIDAS 2021; Sixth Workshop on Data Science for Social Good SoGood 2021; Workshop on Machine Learning for Pharma and Healthcare Applications PharML 2021.

Second Workshop on Evaluation and Experimental Design in Data Mining and Machine Learning EDML 2020 Workshop on Machine Learning for Buildings Energy Management MLBEM 2021      **Model-Based Performance Prediction for**

**Concurrent Software on Multicore Architectures---A Simulation-Based Approach** Frank, Markus Kilian, 2022-07-18

Die modellbasierte Performancevorhersage ist ein bekanntes Konzept zur Gewährleistung der Softwarequalität. Derzeitige Ansätze basieren auf einem Modell mit einer Metrik, was zu ungenauen Vorhersagen für moderne Architekturen führt. In dieser Arbeit wird ein Multi-Strategie-Ansatz zur Erweiterung von Performancevorhersagemodellen zur Unterstützung von Multicore-Architekturen vorgestellt, in Palladio implementiert und dadurch die Genauigkeit der Vorhersage deutlich verbessert. Model-based performance prediction is a well known concept to ensure the quality of software. Current approaches are based on a single metric model which leads to inaccurate predictions for modern architectures. This thesis presents a multi-strategies approach to extend performance prediction models to support multicore architectures. We implemented the strategies into Palladio and significantly increased the performance prediction power.

**A Journey Towards Bio-inspired Techniques in Software Engineering** Jagannath Singh, Saurabh Bilgaiyan, Bhabani Shankar Prasad Mishra, Satchidananda

Dehuri, 2020-03-11 This book covers a range of basic and advanced topics in software engineering. The field has undergone several phases of change and improvement since its invention and there is significant ongoing research in software development addressing aspects such as analysis, design, testing and maintenance. Rather than focusing on a single aspect of software engineering, this book provides a systematic overview of recent techniques including requirement gathering in the form of story points in agile software and bio-inspired techniques for estimating the effort, cost and time required for software development. As such, it is a valuable resource for new researchers interested in advances in software engineering, particularly in the area of bio-inspired techniques.

**Proceedings of the FISITA 2012 World Automotive Congress** SAE-China, FISITA, 2012-10-26

Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by the Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Volume 6: Vehicle Electronics focuses on Engine, Chassis, Body, Electronic Control, Electrical and Electronic System Software and Hardware Development.

Electromagnetic Compatibility (EMC), Vehicle Sensor and Actuator, In-Vehicle Network, Multi-Media, Infotainment System.

Above all, researchers, professional engineers and graduates in fields of automotive engineering, mechanical engineering and electronic engineering will benefit from this book. SAE-China is a national academic organization composed of enterprises and professionals who focus on research, design and education in the fields of automotive and related industries. FISITA is the umbrella organization for the national automotive societies in 37 countries around the world. It was founded in Paris in 1948 with the purpose of bringing engineers from around the world together in a spirit of cooperation to share ideas and advance

the technological development of the automobile

**Fact Oriented Modeling with FCO-IM** Jan Pieter Zwart,Marco Engelbart,Stijn Hoppenbrouwers,2015-10-01 This book offers a complete basic course in Fully Communication Oriented Information Modeling FCO IM a Fact Oriented Modeling FOM data modeling technique The book is suitable for self study by beginner FCO IM modelers whether or not experienced in other modeling techniques An elaborate case study is used as illustration throughout the book The book also illustrates how data models in other techniques can be derived from an elementary FCO IM model The context of fact oriented modeling is given as well and perspectives on information modeling indicate related areas of application and further reading

**Intelligent Systems** João Carlos Xavier-Junior,Ricardo Araújo Rios,2022-11-18 The two volume set LNAI 13653 and 13654 constitutes the refereed proceedings of the 11th Brazilian Conference on Intelligent Systems BRACIS 2022 which took place in Campinas Brazil in November December 2022 The 89 papers presented in the proceedings were carefully reviewed and selected from 225 submissions The conference deals with theoretical aspects and applications of artificial and computational intelligence

Discrete-Event Modeling and Simulation Gabriel A. Wainer,Pieter J. Mosterman,2018-09-03 Collecting the work of the foremost scientists in the field Discrete Event Modeling and Simulation Theory and Applications presents the state of the art in modeling discrete event systems using the discrete event system specification DEVS approach It introduces the latest advances recent extensions of formal techniques and real world examples of various applications The book covers many topics that pertain to several layers of the modeling and simulation architecture It discusses DEVS model development support and the interaction of DEVS with other methodologies It describes different forms of simulation supported by DEVS the use of real time DEVS simulation the relationship between DEVS and graph transformation the influence of DEVS variants on simulation performance and interoperability and composability with emphasis on DEVS standardization The text also examines extensions to DEVS new formalisms and abstractions of DEVS models as well as the theory and analysis behind real world system identification and control To support the generation and search of optimal models of a system a framework is developed based on the system entity structure and its transformation to DEVS simulation models In addition the book explores numerous interesting examples that illustrate the use of DEVS to build successful applications including optical network on chip construction building design process control workflow systems and environmental models A one stop resource on advances in DEVS theory applications and methodology this volume offers a sampling of the best research in the area a broad picture of the DEVS landscape and trend setting applications enabled by the DEVS approach It provides the basis for future research discoveries and encourages the development of new applications

Enterprise Interoperability: Smart Services and Business Impact of Enterprise Interoperability Martin Zelm, Frank-Walter Jaekel, Guy Doumeingts, Martin Wollschlaeger,2018-10-25 The ability of future industry to create interactive flexible and always on connections between design manufacturing and supply is an ongoing challenge affecting competitiveness efficiency and resourcing The goal of

enterprise interoperability EI research is therefore to address the effectiveness of solutions that will successfully prepare organizations for the advent and uptake of new technologies This volume outlines results and practical concepts from recent and ongoing European research studies in EI and examines the results of research and discussions cultivated at the I ESA 2018 conference Smart services and business impact of enterprise interoperability The conference designed to encourage collaboration between academic inquiry and real world industry applications addressed a number of advanced multidisciplinary topics including Industry 4 0 Big Data the Internet of Things Cloud computing ontology artificial intelligence virtual reality and enterprise modelling for future smart manufacturing Readers will find this book to be a source of invaluable knowledge for enterprise architects in a range of industries and organizations

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## **Table of Contents Meta Modeling Performance And Information Modeling**

1. Understanding the eBook Meta Modeling Performance And Information Modeling
  - The Rise of Digital Reading Meta Modeling Performance And Information Modeling
  - Advantages of eBooks Over Traditional Books
2. Identifying Meta Modeling Performance And Information Modeling
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Meta Modeling Performance And Information Modeling
  - User-Friendly Interface
4. Exploring eBook Recommendations from Meta Modeling Performance And Information Modeling
  - Personalized Recommendations
  - Meta Modeling Performance And Information Modeling User Reviews and Ratings
  - Meta Modeling Performance And Information Modeling and Bestseller Lists
5. Accessing Meta Modeling Performance And Information Modeling Free and Paid eBooks
  - Meta Modeling Performance And Information Modeling Public Domain eBooks
  - Meta Modeling Performance And Information Modeling eBook Subscription Services
  - Meta Modeling Performance And Information Modeling Budget-Friendly Options

6. Navigating Meta Modeling Performance And Information Modeling eBook Formats
  - ePub, PDF, MOBI, and More
  - Meta Modeling Performance And Information Modeling Compatibility with Devices
  - Meta Modeling Performance And Information Modeling Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Meta Modeling Performance And Information Modeling
  - Highlighting and Note-Taking Meta Modeling Performance And Information Modeling
  - Interactive Elements Meta Modeling Performance And Information Modeling
8. Staying Engaged with Meta Modeling Performance And Information Modeling
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Meta Modeling Performance And Information Modeling
9. Balancing eBooks and Physical Books Meta Modeling Performance And Information Modeling
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Meta Modeling Performance And Information Modeling
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Meta Modeling Performance And Information Modeling
  - Setting Reading Goals Meta Modeling Performance And Information Modeling
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Meta Modeling Performance And Information Modeling
  - Fact-Checking eBook Content of Meta Modeling Performance And Information Modeling
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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