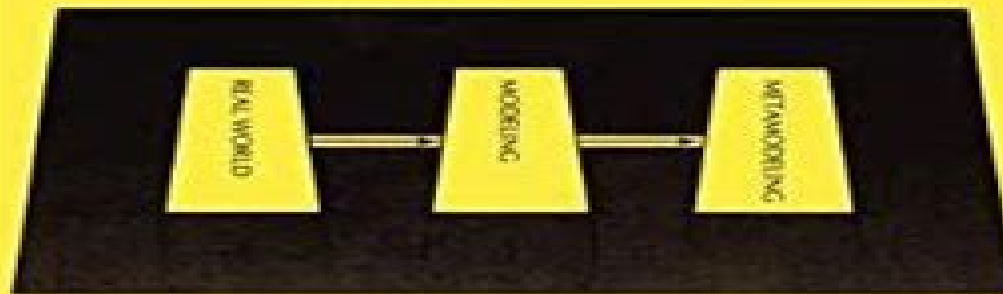


SYSTEM DESIGN MODELING AND METAMODELING



John P. van Gigch

System Design Modeling And Metamodeling

Cihan H. Dagli, Andrew Kusiak



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[Systems Design](#) John P. Van Gigch, 1988 *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

Nanoelectronic Mixed-Signal System Design Saraju Mohanty, 2015-02-20 Covering both the classical and emerging nanoelectronic technologies being used in mixed signal design this book addresses digital analog and memory components Winner of the Association of American Publishers 2016 PROSE Award in the Textbook Physical Sciences Mathematics category Nanoelectronic Mixed Signal System Design offers professionals and students a unified perspective on the science engineering and technology behind nanoelectronics system design Written by the director of the NanoSystem Design Laboratory at the University of North Texas this comprehensive guide provides a large scale picture of the design and manufacturing aspects of nanoelectronic based systems It features dual coverage of mixed signal circuit and system design rather than just digital or analog only Key topics such as process variations power dissipation and security aspects of electronic system design are discussed Top down analysis of all stages from design to manufacturing Coverage of current and developing nanoelectronic technologies not just nano CMOS Describes the basics of nanoelectronic technology and the structure of popular electronic systems Reveals the techniques required for design excellence and manufacturability

Proceedings, IEEE Control Systems Society ... Symposium on Computer-Aided Control System Design (CACSD), 2004

Software Diagramming John S. Murphy, Karl G. Balke, 1989 This book details a special methodology of relational systems diagramming for software engineers project managers and system analysts The methodology provides for all users of a software system to be considered in its design and implementation

Design Theory and Methodology, DTM

'93 T. K. Hight, Larry A. Stauffer, 1993 *Simulation Model Design and Execution* Paul A. Fishwick, 1995 The author offers the first text to cover all three areas of simulation Model Design Model Execution and Execution Analysis in one source He focuses on model design using an extension of object oriented design called multimodeling and algorithms for serial and parallel model execution Also covered is the SimPack simulation toolkit with a full chapter devoted to using SimPack programs *The Development of a System Dynamics Simulation Model of National Park Regions for Educational Use* Kuan-Chou Chen, 1995 *Intelligent Systems in Design and Manufacturing* Cihan H. Dagli, Andrew Kusiak, 1994 Focuses on solutions to problems in design and manufacturing engineering presenting a variety of problem solving approaches and practical examples Covers neural networks and other artificial intelligence tools computational models for conceptual design desirable functionalities of intelligent CA **Information Systems Engineering** Sjaak Brinkkemper, 2000 This book contains a collection of 24 state of the art contributions in the area of Information Systems Engineering It was compiled as a tribute to Professor Janis Bubenko on the occasion of his retirement from the University of Stockholm in February 2000 The contributions are arranged in three sections Information Society with such subjects as B2B E Commerce human imperfection stream data management and enterprise modeling Approaches to Information Systems Engineering discussing data warehouse development web enabled methods reuse and meta data Concepts for Information Systems on more fundamental notions such as time abstraction co operation intention and information All the contributors are well known and highly reputed scholars in the area of Information Systems Engineering from all over the world Expert Systems in Computer-aided Design John S. Gero, 1987 Computer Aided Design has progressed from being concerned initially with analysis and evaluation through graphic representation and geometric modelling to a concern with the design tasks themselves The role of Expert Systems in performing complex design tasks is examined in this book Here expert systems have been defined rather broadly any system which embodies expert knowledge explicitly and utilises reasoning processes as its computational process The topics covered include system architectures representation tools applications and specific design concerns The papers demonstrate the wide variety of knowledge engineering tools needed in computer aided design *15th Symposium on Integrated Circuits and Systems Design* Ricardo Augusto da Luz Reis, Ney Calazans, 2002 Advances in Design Automation, 1993 Brian J. Gilmore, 1993 Systems Thinking and Complexity Science Kurt Anders Richardson, Kurt Antony Richardson, Wendy J. Gregory, Gerald Midgley, 2006 AIAA Journal American Institute of Aeronautics and Astronautics, 2002 ACM Transactions on Modeling and Computer Simulation, 2003 *Booktwo of Object-oriented Knowledge* Brian Henderson-Sellers, Julian Marcus Edwards, 1994 Designed for technical managers and software engineers whose focus is on methods procedures and management rather than on coding this comprehensive discussion of software development using an Object Oriented approach describes in detail a second generation full life cycle Object Oriented methodology MOSES taking the developer from the initial user requirements and business planning through

to implementation testing maintenance and future enhancements It covers the object oriented paradigm object oriented development MOSES notation MOSES product and process lifecycles MOSES lifecycle activities a case study using MOSES project management and commercial adoption of OOSE and object oriented metrics **Proceedings of the ... ASME Design Engineering Technical Conferences** ,2007

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