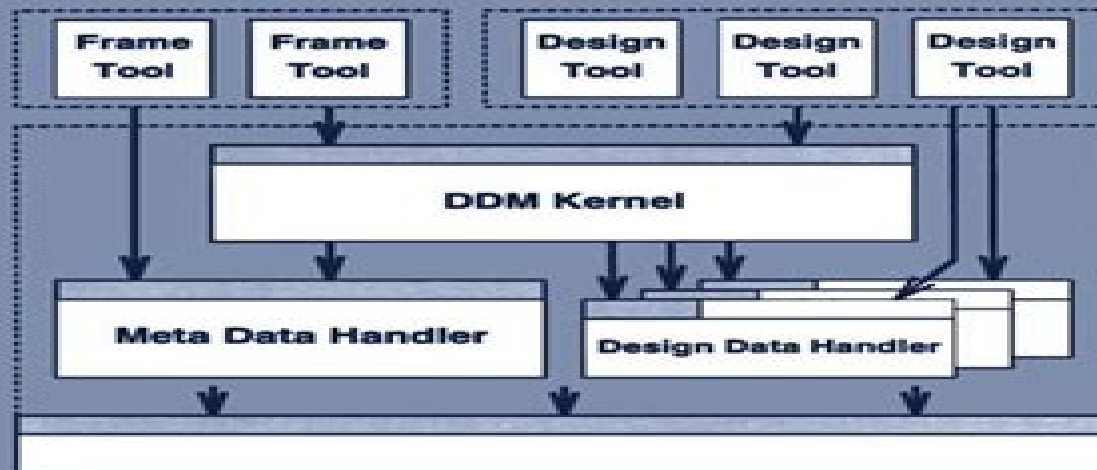

CAD FRAMEWORKS

PRINCIPLES AND ARCHITECTURE



Pieter van der Wolf

Kluwer Academic Publishers

Cad Frameworks Principles And Architecture

Richard Hartley, Keshab K. Parhi



Cad Frameworks Principles And Architecture:

Cad Frameworks Pieter van der Wolf, 2012-12-06 Since the early 1980s CAD frameworks have received a great deal of attention both in the research community and in the commercial arena It is generally agreed that CAD framework technology promises much advanced CAD frameworks can turn collections of individual tools into effective and user friendly design environments But how can this promise be fulfilled CAD Frameworks Principles and Architecture describes the design and construction of CAD frameworks It presents principles for building integrated design environments and shows how a CAD framework can be based on these principles It derives the architecture of a CAD framework in a systematic way using well defined primitives for representation This architecture defines how the many different framework sub topics ranging from concurrency control to design flow management relate to each other and come together into an overall system The origin of this work is the research and development performed in the context of the Nelsis CAD Framework which has been a working system for well over eight years gaining functionality while evolving from one release to the next The principles and concepts presented in this book have been field tested in the Nelsis CAD Framework CAD Frameworks Principles and Architecture is primarily intended for EDA professionals both in industry and in academia but is also valuable outside the domain of electronic design Many of the principles and concepts presented are also applicable to other design oriented application domains such as mechanical design or computer aided software engineering CASE It is thus a valuable reference for all those involved in computer aided design

Cad Frameworks Pieter van der Wolf, 1994 Since the early 1980s CAD frameworks have received a great deal of attention both in the research community and in the commercial arena It is generally agreed that CAD framework technology promises much advanced CAD frameworks can turn collections of individual tools into effective and user friendly design environments But how can this promise be fulfilled CAD Frameworks Principles and Architecture describes the design and construction of CAD frameworks It presents principles for building integrated design environments and shows how a CAD framework can be based on these principles It derives the architecture of a CAD framework in a systematic way using well defined primitives for representation This architecture defines how the many different framework sub topics ranging from concurrency control to design flow management relate to each other and come together into an overall system The origin of this work is the research and development performed in the context of the Nelsis CAD Framework which has been a working system for well over eight years gaining functionality while evolving from one release to the next The principles and concepts presented in this book have been field tested in the Nelsis CAD Framework CAD Frameworks Principles and Architecture is primarily intended for EDA professionals both in industry and in academia but is also valuable outside the domain of electronic design Many of the principles and concepts presented are also applicable to other design oriented application domains such as mechanical design or computer aided software engineering CASE It is thus a valuable reference for all those involved in computer aided design

Advanced Information Systems

Engineering Panos Constantopoulos, John Mylopoulos, 1996-05-03 This book presents the refereed proceedings of the 8th International Conference on Advanced Information Systems Engineering CAiSE 96 held in Herakleion Crete Greece in May 1996 The 30 revised full papers included in the book were selected from a total of some 100 submissions The book is organised in sections on CASE environments temporal and active database technologies experience reports interoperability in information systems formal methods in system development novel architectures workflow management and distributed information systems information modelling object oriented database design and semantic links and abstraction

Algorithms for VLSI Design Automation Sabih H. Gerez, 1999-01-05 Modern microprocessors such as Intel's Pentium chip typically contain many millions of transistors They are known generically as Very Large Scale Integrated VLSI systems and their sheer scale and complexity has necessitated the development of CAD tools to automate their design This book focuses on the algorithms which are the building blocks of the design automation software which generates the layout of VLSI circuits Courses on this area are typically elective courses taken at senior undergrad or graduate level by students of Electrical and Electronic Engineering and sometimes in Computer Science or Computer Engineering

Electronic Design Automation Frameworks Franz J. Rammig, Flavio Wagner, 1995-08-31 Design frameworks have become an important infrastructure for building complex design systems Electronic Design Automation Frameworks presents a state of the art review of the latest research results covering this topic results which are also of value for other design frameworks The book contains the selected proceedings of the Fourth International Working Conference on Electronic Design Frameworks organized by the International Federation for Information Processing and held in Gramado Brazil in November 1994

Computer Aided Control Systems Design, CACSD '97 L. Boullart, Mia Loccupier, Sven Erik Mattsson, 1997 This volume contains the proceedings of the 7th IFAC Symposium on Computer Aided Control Systems Design CACSD 97 held in Gent Belgium on 28-30 April 1997 It presents a high standing scientific contribution to the challenging field of CACSD and gives an excellent preview of current research which in coming years will undoubtedly offer many useful results The topics covered include control systems design special architectures for CACSD software for CACSD hybrid discrete event and real time systems symbolic and numerical computations algorithms for CACSD CACSD support environments planning and manufacturing system modelling and simulation optimization robust control intelligent controller design and applications The volume comprises 61 full papers and a challenging keynote address by Professor Georg Gruuml bel from the DLR Institute of Robotics and System Dynamics Germany

[The Proceedings of the European Design Automation Conference](#), 1990

Concurrent Engineering Sa'ad Medhat, 1997 Concurrent engineering is concerned with how to respond to the ever increasing intensity of competitive pressures reducing time to market and product introduction costs experienced in today's global market for the long term benefit of the manufacturing companies themselves and for the customers they serve This book brings together the rationale planning and implementation of concurrent engineering It also highlights teamwork as a

critical success factor for effective concurrent engineering and investigates the importance of the customer and the market place Advanced Information Systems Engineering ,1996 **Cooperative Databases and Applications '99** Yanchun Zhang,Marek Rusinkiewicz,Yahiko Kambayashi,1999-11 Wollongong Australia March 27 28 1999 Software Synthesis from Dataflow Graphs Shuvra S. Bhattacharyya,Praveen K. Murthy,Edward A. Lee,1996-05-31 Software Synthesis from Dataflow Graphs addresses the problem of generating efficient software implementations from applications specified as synchronous dataflow graphs for programmable digital signal processors DSPs used in embedded real time systems The advent of high speed graphics workstations has made feasible the use of graphical block diagram programming environments by designers of signal processing systems A particular subset of dataflow called Synchronous Dataflow SDF has proven efficient for representing a wide class of unirate and multirate signal processing algorithms and has been used as the basis for numerous DSP block diagram based programming environments such as the Signal Processing Workstation from Cadence Design Systems Inc COSSAP from Synopsys both commercial tools and the Ptolemy environment from the University of California at Berkeley A key property of the SDF model is that static schedules can be determined at compile time This removes the overhead of dynamic scheduling and is thus useful for real time DSP programs where throughput requirements are often severe Another constraint that programmable DSPs for embedded systems have is the limited amount of on chip memory Off chip memory is not only expensive but is also slower and increases the power consumption of the system hence it is imperative that programs fit in the on chip memory whenever possible Software Synthesis from Dataflow Graphs reviews the state of the art in constructing static memory optimal schedules for programs expressed as SDF graphs Code size reduction is obtained by the careful organization of loops in the target code Data buffering is optimized by constructing the loop hierarchy in provably optimal ways for many classes of SDF graphs The central result is a uniprocessor scheduling framework that provably synthesizes the most compact looping structures called single appearance schedules for a certain class of SDF graphs In addition algorithms and heuristics are presented that generate single appearance schedules optimized for data buffering usage Numerous practical examples and extensive experimental data are provided to illustrate the efficacy of these techniques American Book Publishing Record ,1995 **Digit-Serial Computation** Richard Hartley,Keshab K. Parhi,2012-12-06 Digital signal processing DSP is used in a wide range of applications such as speech telephone mobile radio video radar and sonar The sample rate requirements of these applications range from 10 KHz to 100 MHz Real time implementation of these systems requires design of hardware which can process signal samples as these are received from the source as opposed to storing them in buffers and processing them in batch mode Efficient implementation of real time hardware for DSP applications requires study of families of architectures and implementation styles out of which an appropriate architecture can be selected for a specified application To this end the digit serial implementation style is proposed as an appropriate design methodology for cases where bit serial systems cannot meet the sample rate requirements

and bit parallel systems require excessive hardware. The number of bits processed in a clock cycle is referred to as the digit size. The hardware complexity and the achievable sample rate increase with increase in the digit size. As special cases a digit serial system is reduced to bit serial or bit parallel when the digit size is selected to equal one or the word length respectively. A family of implementations can be obtained by changing the digit size parameter thus permitting an optimal trade off between throughput and size. Because of their structured architecture digit serial designs lend themselves to automatic compilation from algorithmic descriptions. An implementation of this design methodology the Parsifal silicon compiler was developed at the General Electric Corporate Research and Development laboratory.

Digital Timing Macromodeling for VLSI Design Verification Jeong-Taek Kong, David V. Overhauser, 2012-12-06. Digital Timing Macromodeling for VLSI Design Verification first of all provides an extensive history of the development of simulation techniques. It presents detailed discussion of the various techniques implemented in circuit timing: fast timing, switch level timing, switch level and gate level simulation. It also discusses mixed mode simulation and interconnection analysis methods. The review in Chapter 2 gives an understanding of the advantages and disadvantages of the many techniques applied in modern digital macromodels. The book also presents a wide variety of techniques for performing nonlinear macromodeling of digital MOS subcircuits which address a large number of shortcomings in existing digital MOS macromodels. Specifically the techniques address the device model detail: transistor coupling capacitance, effective channel length modulation, series transistor reduction, effective transconductance, input terminal dependence, gate parasitic capacitance, the body effect, the impact of parasitic RC interconnects and the effect of transmission gates. The techniques address major sources of errors in existing macromodeling techniques which must be addressed if macromodeling is to be accepted in commercial CAD tools by chip designers. The techniques presented in Chapters 4-6 can be implemented in other macromodels and are demonstrated using the macromodel presented in Chapter 3. The new techniques are validated over an extremely wide range of operating conditions much wider than has been presented for previous macromodels thus demonstrating the wide range of applicability of these techniques.

Modern Methods of Speech Processing Ravi P. Ramachandran, Richard Mammone, 2012-12-06. The term speech processing refers to the scientific discipline concerned with the analysis and processing of speech signals for getting the best benefit in various practical scenarios. These different practical scenarios correspond to a large variety of applications of speech processing research. Examples of some applications include enhancement, coding, synthesis, recognition and speaker recognition. A very rapid growth particularly during the past ten years has resulted due to the efforts of many leading scientists. The ideal aim is to develop algorithms for a certain task that maximize performance, are computationally feasible and are robust to a wide class of conditions. The purpose of this book is to provide a cohesive collection of articles that describe recent advances in various branches of speech processing. The main focus is in describing specific research directions through a detailed analysis and review of both the theoretical and practical settings. The intended audience

includes graduate students who are embarking on speech research as well as the experienced researcher already working in the field For graduate students taking a course this book serves as a supplement to the course material As the student focuses on a particular topic the corresponding set of articles in this book will serve as an initiation through exposure to research issues and by providing an extensive reference list to commence a literature survey Experienced researchers can utilize this book as a reference guide and can expand their horizons in this rather broad area

Automatic Speech and Speaker Recognition Chin-Hui Lee, Frank K. Soong, Kuldip K. Paliwal, 2012-12-06 Research in the field of automatic speech and speaker recognition has made a number of significant advances in the last two decades influenced by advances in signal processing algorithms architectures and hardware These advances include the adoption of a statistical pattern recognition paradigm the use of the hidden Markov modeling framework to characterize both the spectral and the temporal variations in the speech signal the use of a large set of speech utterance examples from a large population of speakers to train the hidden Markov models of some fundamental speech units the organization of speech and language knowledge sources into a structural finite state network and the use of dynamic programming based heuristic search methods to find the best word sequence in the lexical network corresponding to the spoken utterance Automatic Speech and Speaker Recognition Advanced Topics groups together in a single volume a number of important topics on speech and speaker recognition topics which are of fundamental importance but not yet covered in detail in existing textbooks Although no explicit partition is given the book is divided into five parts Chapters 1 2 are devoted to technology overviews Chapters 3 12 discuss acoustic modeling of fundamental speech units and lexical modeling of words and pronunciations Chapters 13 15 address the issues related to flexibility and robustness Chapter 16 18 concern the theoretical and practical issues of search Chapters 19 20 give two examples of algorithm and implementational aspects for recognition system realization Audience A reference book for speech researchers and graduate students interested in pursuing potential research on the topic May also be used as a text for advanced courses on the subject

On Optimal Interconnections for VLSI Andrew B. Kahng, Gabriel Robins, 2013-04-17 On Optimal Interconnections for VLSI describes from a geometric perspective algorithms for high performance high density interconnections during the global and detailed routing phases of circuit layout First the book addresses area minimization with a focus on near optimal approximation algorithms for minimum cost Steiner routing In addition to practical implementations of recent methods the implications of recent results on spanning tree degree bounds and the method of Zelikovsky are discussed Second the book addresses delay minimization starting with a discussion of accurate yet algorithmically tractable delay models Recent minimum delay constructions are highlighted including provably good cost radius tradeoffs critical sink routing algorithms Elmore delay optimal routing graph Steiner arborescences non tree routing and wiresizing Third the book addresses skew minimization for clock routing and prescribed delay routing formulations The discussion starts with early matching based constructions and goes on to treat zero skew routing with provably minimum

wirelength as well as planar clock routing Finally the book concludes with a discussion of multiple competing objectives i e how to optimize area delay skew and other objectives simultaneously These techniques are useful when the routing instance has heterogeneous resources or is highly congested as in FPGA routing multi chip packaging and very dense layouts Throughout the book the emphasis is on practical algorithms and a complete self contained development On Optimal Interconnections for VLSI will be of use to both circuit designers CAD tool users as well as researchers and developers in the area of performance driven physical design

The British National Bibliography Arthur James Wells,1994 *Design, Test, and Microfabrication of MEMS and MOEMS* Bernard Courtois,1999 **Illustrated Official Journal (patents)** Great Britain. Patent Office,1995

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