

ADVANCED FPGA DESIGN

Architecture, Implementation, and Optimization

STEVE KILTS

Advanced Fpga Design Architecture Implementation And Optimization

Michal Rosen-Zvi



Advanced Fpga Design Architecture Implementation And Optimization:

Advanced FPGA Design Steve Kilts, 2007-07-13 This book provides the advanced issues of FPGA design as the underlying theme of the work In practice an engineer typically needs to be mentored for several years before these principles are appropriately utilized The topics that will be discussed in this book are essential to designing FPGA s beyond moderate complexity The goal of the book is to present practical design techniques that are otherwise only available through mentorship and real world experience Electronic System-Level HW/SW Co-Design of Heterogeneous Multi-Processor Embedded Systems Luigi Pomante, 2022-09-01 Modern electronic systems consist of a fairly heterogeneous set of components Today a single system can be constituted by a hardware platform frequently composed of a mix of analog and digital components and by several software application layers The hardware can include several heterogeneous microprocessors e g GPP DSP GPU etc dedicated ICs ASICs and or FPGAs memories a set of local connections between the system components and some interfaces between the system and the environment sensors actuators etc Therefore on the one hand multi processor embedded systems are capable of meeting the demand of processing power and flexibility of complex applications On the other hand such systems are very complex to design and optimize so that the design methodology plays a major role in determining the success of the products For these reasons to cope with the increasing system complexity the approaches typically used today are oriented towards co design methodologies working at the higher levels of abstraction Unfortunately such methodologies are typically customized for the specific application suffer of a lack of generality and still need a considerable effort when real size project are envisioned Therefore there is still the need for a general methodology able to support the designer during the high level steps of a co design flow enabling an effective design space exploration before tackling the low level steps and thus committing to the final technology This should prevent costly redesign loops In such a context the work described in this book composed of two parts aims at providing models methodologies and tools to support each step of the co design flow of embedded systems implemented by exploiting heterogeneous multi processor architectures mapped on distributed systems as well as fully integrated onto a single chip *Real-Time Electromagnetic Transient Simulation of AC-DC Networks* Venkata Dinavahi, Ning Lin, 2021-06-22 Explore a comprehensive and state of the art presentation of real time electromagnetic transient simulation technology by leaders in the field Real Time Electromagnetic Transient Simulation of AC DC Networks delivers a detailed exposition of field programmable gate array FPGA hardware based real time electromagnetic transient EMT emulation for all fundamental equipment used in AC DC power grids The book focuses specifically on detailed device level models for their hardware realization in a massively parallel and deeply pipelined manner as well as decomposition techniques for emulating large systems Each chapter contains fundamental concepts apparatus models solution algorithms and hardware emulation to assist the reader in understanding the material contained within Case studies are peppered throughout the book ranging from small didactic test circuits to

realistically sized large scale AC DC grids The book also provides introductions to FPGA and hardware in the loop HIL emulation procedures and large scale networks constructed by the foundational components described in earlier chapters With a strong focus on high voltage direct current power transmission grid applications Real Time Electromagnetic Transient Simulation of AC DC Networks covers both system level and device level mathematical models Readers will also enjoy the inclusion of A thorough introduction to field programmable gate array technology including the evolution of FPGAs technology trends hardware architectures and programming tools An exploration of classical power system components e g linear and nonlinear passive power system components transmission lines power transformers rotating machines and protective relays A comprehensive discussion of power semiconductor switches and converters i e AC DC and DC DC converters and specific power electronic apparatus such as DC circuit breakers An examination of decomposition techniques used at the equipment level as well as the large scale system level for real time EMT emulation of AC DC networks Chapters that are supported by simulation results from well defined test cases and the corresponding system parameters are provided in the Appendix Perfect for graduate students and professional engineers studying or working in electrical power engineering Real Time Electromagnetic Transient Simulation of AC DC Networks will also earn a place in the libraries of simulation specialists senior modeling and simulation engineers planning and design engineers and system studies engineers

Anomalous Relaxation in Colloidal Systems Avinash Kumar,2022-10-22 The thesis presents a systematic study of the Mpemba effect in a colloidal system with a micron sized particle diffusing in a water bath While the Mpemba effect where a system s thermal relaxation time is a non monotonic function of the initial temperature has been observed in water since Aristotle s era the underlying mechanism of the effect is still unknown Recent studies indicate that the effect is not limited to water and has been studied both experimentally and numerically in a wide variety of systems By carefully designing a double well potential using feedback based optical tweezers the author demonstrates that an initially hot system can sometimes cool faster than an initially warm system The author also presents the first observation in any system of another counterintuitive effect the inverse Mpemba effect where the colder of the two samples reaches the thermal equilibrium at a hot temperature first The results for both the observations agree with theoretical predictions based on the Fokker Planck equation The experiments reveal that for carefully chosen conditions a strong version of both of the effects are observed where a system can relax to the bath temperature exponentially faster than under typical conditions

Narrowband Single Photons for Light-Matter Interfaces Markus Rambach,2018-08-28 This book provides a step by step guide on how to construct a narrowband single photon source for the integration with atom based memory systems It combines the necessary theoretical background with crucial experimental methods and characterisations to form a complete handbook for readers at all academic levels The future implementation of large quantum networks will require the hybridisation of photonic qubits for communication with quantum memories in the context of information storage Such an interface requires carefully tailored

single photons to ensure compatibility with the chosen memory The source itself is remarkable for a number of reasons including being the spectrally narrowest and brightest source of its kind in addition it offers a novel technique for frequency stabilisation in an optical cavity together with exceptional portability Starting with a thorough analysis of the current literature this book derives the essential parameters needed to design the source describes its individual components in detail and closes with the characterisation of a single photon source

Security, Privacy and Reliability in Computer Communications and Networks Kewei Sha, Aaron Striegel, Min Song, 2022-09-01 Future communication networks aim to build an intelligent and efficient living environment by connecting a variety of heterogeneous networks to fulfill complicated tasks These communication networks bring significant challenges in building secure and reliable communication networks to address the numerous threat and privacy concerns New research technologies are essential to preserve privacy prevent attacks and achieve the requisite reliability Security Privacy and Reliability in Computer Communications and Networks studies and presents recent advances reflecting the state of the art research achievements in novel cryptographic algorithm design intrusion detection privacy preserving techniques and reliable routing protocols Technical topics discussed in the book include Vulnerabilities and Intrusion Detection Cryptographic Algorithms and Evaluation Privacy Reliable Routing Protocols This book is ideal for personnel in computer communication and networking industries as well as academic staff and collegial master Ph D students in computer science computer engineering cyber security information insurance and telecommunication systems

Synthesizable VHDL Design for FPGAs Eduardo Augusto Bezerra, Djones Vinicius Lettnin, 2013-10-21 The methodology described in this book is the result of many years of research experience in the field of synthesizable VHDL design targeting FPGA based platforms VHDL was first conceived as a documentation language for ASIC designs Afterwards the language was used for the behavioral simulation of ASICs and also as a design input for synthesis tools VHDL is a rich language but just a small subset of it can be used to write synthesizable code from which a physical circuit can be obtained Usually VHDL books describe both synthesis and simulation aspects of the language but in this book the reader is conducted just through the features acceptable by synthesis tools The book introduces the subjects in a gradual and concise way providing just enough information for the reader to develop their synthesizable digital systems in VHDL The examples in the book were planned targeting an FPGA platform widely used around the world

Machine Learning for Edge Computing Amitoj Singh, Vinay Kukreja, Taghi Javdani Gandomani, 2022-07-29 This book divides edge intelligence into AI for edge intelligence enabled edge computing and AI on edge artificial intelligence on edge It focuses on providing optimal solutions to the key concerns in edge computing through effective AI technologies and it discusses how to build AI models i e model training and inference on edge This book provides insights into this new inter disciplinary field of edge computing from a broader vision and perspective The authors discuss machine learning algorithms for edge computing as well as the future needs and potential of the technology The authors also explain the core concepts frameworks patterns and research

roadmap which offer the necessary background for potential future research programs in edge intelligence The target audience of this book includes academics research scholars industrial experts scientists and postgraduate students who are working in the field of Internet of Things IoT or edge computing and would like to add machine learning to enhance the capabilities of their work This book explores the following topics Edge computing hardware for edge computing AI and edge virtualization techniques Edge intelligence and deep learning applications training and optimization Machine learning algorithms used for edge computing Reviews AI on IoT Discusses future edge computing needs

Amitoj Singh is an Associate Professor at the School of Sciences of Emerging Technologies Jagat Guru Nanak Dev Punjab State Open University Punjab India Vinay Kukreja is a Professor at the Chitkara Institute of Engineering and Technology Chitkara University Punjab India Taghi Javdani Gandomani is an Assistant Professor at Shahrekord University Shahrekord Iran Engineering Resilient Quantum Randomness

Joakim Argillander, 2025-08-11 Random numbers are a necessary resource in many fields of computer science and natural sciences They are used in a wide range of applications including simulations statistical sampling gaming and cryptography Traditional randomness in computing is often generated by pseudo random number generators PRNGs which are software algorithms that produce sequences of numbers that appear random but are actually deterministic If enough of the internal state of the PRNG is known any future output can be predicted This is particularly problematic in cryptographic applications where the security of the system relies on the unpredictability on randomly generated passwords and keys In cryptography it is also important that the random numbers are private meaning that they must not be known by a possible attacker The concept of privacy is best illustrated by an attack scenario where an adversary has pre programmed the random number generator to generate a for the adversary known sequence The sequence can then appear to be random even though it is not private as information about the sequence exists both with the legitimate user and with the attacker Quantum mechanics provides a fundamentally different approach to randomness generation as it allows us to generate truly random numbers based on the inherent uncertainty when measuring quantum states Quantum random number generators QRNGs exploit the probabilistic nature of quantum mechanics to produce random numbers that are not predictable regardless of how much knowledge one has about the generator The theoretical frameworks within quantum mechanics also offer the possibility to implement modern protocols that can certify the generated numbers to be private ensuring that the QRNGs are secure against potential adversaries In this thesis we present contributions to the field of photonic quantum random number generation focusing on alternative implementations of measurement device independent MDI protocols These protocols aim to eliminate potential vulnerabilities associated with the measurement devices used in QRNGs We show that fiber optic interferometers are a suitable platform for preparing quantum states for MDI QRNGs and we demonstrate the use of Sagnac interferometers as state preparation devices We also explore novel platforms such as perovskite light emitting diodes for quantum information processing tasks By combining experimental innovation with modern theoretical frameworks

this thesis presents a series of advancements that push the boundaries of quantum random number generation It demonstrates that high quality certifiable and private randomness can be generated using accessible and scalable technologies paving the way for secure cryptographic hardware that is resilient to both classical and quantum adversaries

Slumtalsgeneratorer PRNG vilka r mjukvarualgoritmer som producerar sekvenser av tal som verkar slump m ssiga men som i sj lva verket r deterministiska Om tillr ckligt mycket av det interna tillst ndet i PRNG n r k nt kan framtida utdata f ruts gas Detta r s rskilt problematiskt i kryptografiska till mpningar d r systemets s kerhet r beroende av of ruts gbarheten hos slumpm ssigt genererade l senord och nycklar Inom kryptografi r det ocks viktigt att de slumpm ssiga talen r privata vilket inneb r att de inte f r vara k nda av en eventuell angripare Konceptet privathet illustreras b st av ett attackscenario d r en angripare har f rprogrammerat slumtalsgeneratorn att generera en f r angriparen k nd sekvens Sekvensen kan d verka slumpm ssig ven om den inte r privat eftersom information om sekvensen finns b de hos den legitima anv ndaren och hos angriparen Kvantmekaniken m jligg r ett fundamentalt annorlunda tillv gag ngss tt f r generering av slumpm ssiga tal eftersom det baserat p den inneboende os kerheten i kvantmekaniska m tningar g r att generera kta slumtalsgeneratorer QRNG utnyttjar den probabilistiska naturen hos kvantmekanik f r att producera slumpm ssiga tal som inte r f ruts gbara oavsett hur mycket vetskap man har om generatorn De teoretiska ramverken inom kvantmekaniken ger ocks m jligheten att implementera moderna protokoll som kan certifiera att de genererade talen r privata vilket s kerst ller att QRNG n r s ker mot potentiella angripare I denna avhandling presenterar vi bidrag till omr det fotoniska kvantlumptalsgeneratorer med fokus p alternativa implementeringar av measurement device independent protokoll MDI protokoll Dessa protokoll syftar till att eliminera potentiella s rbarheter som r f rknyttade med m tapparatens som anv nds i QRNG n Vi visar att fiberoptiska interferometrar r en l mplig plattform f r att bereda kvanttillst nd f r MDI QRNG er och vi demonstrerar anv ndandet av Sagnac interferometrar som tillst ndsberedningsenheter Vi utforskar ocks nya plattformar s som perovskitlysdioder f r att utf ra behandling av kvantinformation Genom att kombinera experimentell innovation med moderna teoretiska metoder presenterar denna avhandling en serie framsteg som utmanar gr nserna f r kvantlumptalsgenerering Avhandlingen visar att h gkvalitativ certifierbar och privat slump kan genereras med hj lp av tillg nglig och skalbar teknik vilket banar v g f r s ker kryptografisk h rdvara som r motst ndskraftig mot s v l klassiska angrepp som kvantangripare

Introduction to Reconfigurable Supercomputing Marco Lanzagorta, Stephen Bique, Robert Rosenberg, 2022-05-31 This book covers technologies applications tools languages procedures advantages and disadvantages of reconfigurable supercomputing using Field Programmable Gate Arrays FPGAs The target audience is the community of users of High Performance Computers HPC who may benefit from porting their applications into a reconfigurable

environment As such this book is intended to guide the HPC user through the many algorithmic considerations hardware alternatives usability issues programming languages and design tools that need to be understood before embarking on the creation of reconfigurable parallel codes We hope to show that FPGA acceleration based on the exploitation of the data parallelism pipelining and concurrency remains promising in view of the diminishing improvements in traditional processor and system design Table of Contents FPGA Technology Reconfigurable Supercomputing Algorithmic Considerations FPGA Programming Languages Case Study Sorting Alternative Technologies and Concluding Remarks

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