Ted Huffmire
Cynthia Irvine
Thuy D. Nguyen
Timothy Levin
Ryan Kastner
Timothy Sherwood

Handbook
of FPGA
Design Security

Handbook Of Fpga Design Security

Chao Zhang

Handbook Of Fpga Design Security:

   Handbook of FPGA Design Security Ted Huffmire,Cynthia Irvine,Thuy D. Nguyen,Timothy Levin,Ryan Kastner,Timothy Sherwood,2010-06-18 The purpose of this book is to provide a practical approach to managing security in FPGA designs for researchers and practitioners in the electronic design automation EDA and FPGA communities including corporations industrial and government research labs and academics This book combines theoretical underpinnings with a practical design approach and worked examples for combating real world threats To address the spectrum of lifecycle and operational threats against FPGA systems a holistic view of FPGA security is presented from formal top level speci cation to low level policy enforcement mechanisms which integrates recent advances in the elds of computer security theory languages compilers and hardware The net effect is a diverse set of static and runtime techniques that working in coope tion facilitate the composition of robust dependable and trustworthy systems using commodity components We wish to acknowledge the many people who helped us ensure the success of ourworkonrecon gurablehardwaresecurity Inparticular wewishtothankAndrei Paun and Jason Smith of Louisiana Tech University for providing us with a Lin compatible version of Grail We also wish to thank those who gave us comments on drafts of this book including Marco Platzner of the University of Paderborn and Ali Irturk and Jason Oberg of the University of California San Diego This research was funded in part by National Science Foundation Grant CNS 0524771 and NSF Career Grant CCF 0448654   **Cyber Security and Safety of Nuclear Power Plant Instrumentation and Control Systems** Yastrebenetsky, Michael A.,Kharchenko, Vyacheslav S.,2020-05-22 Safety and security are crucial to the operations of nuclear power plants but cyber threats to these facilities are increasing significantly Instrumentation and control systems which play a vital role in the prevention of these incidents have seen major design modifications with the implementation of digital technologies Advanced computing systems are assisting in the protection and safety of nuclear power plants however significant research on these computational methods is deficient Cyber Security and Safety of Nuclear Power Plant Instrumentation and Control Systems is a pivotal reference source that provides vital research on the digital developments of instrumentation and control systems for assuring the safety and security of nuclear power plants While highlighting topics such as accident monitoring systems classification measures and UAV fleets this publication explores individual cases of security breaches as well as future methods of practice This book is ideally designed for engineers industry specialists researchers policymakers scientists academicians practitioners and students involved in the development and operation of instrumentation and control systems for nuclear power plants chemical and petrochemical industries transport and medical equipment   **Secure System Design and Trustable Computing** Chip-Hong Chang,Miodrag Potkonjak,2015-09-17 This book provides the foundations for understanding hardware security and trust which have become major concerns for national security over the past decade Coverage includes issues related to security and trust in a variety of electronic devices and systems related to the security of hardware firmware

and software spanning system applications online transactions and networking services This serves as an invaluable reference to the state of the art research that is of critical significance to the security of and trust in modern society s microelectronic supported infrastructures   Handbook of Financial Cryptography and Security Burton Rosenberg,2010-08-02 The Handbook of Financial Cryptography and Security elucidates the theory and techniques of cryptography and illustrates how to establish and maintain security under the framework of financial cryptography It applies various cryptographic techniques to auctions electronic voting micropayment systems digital rights financial portfolios routing   **Handbook of Research on Mobility and Computing: Evolving Technologies and Ubiquitous Impacts** Cruz-Cunha, Maria Manuela,Moreira, Fernando,2011-04-30 Discusses the main issues challenges opportunities and trends related to this explosive range of new developments and applications in constant evolution and impacting every organization and society as a whole This two volume handbook supports post graduate students teachers and researchers as well as IT professionals and managers   **Green IT Engineering: Social, Business and Industrial Applications** Vyacheslav Kharchenko,Yuriy Kondratenko,Janusz Kacprzyk,2018-09-29 This book describes the implementation of green IT in various human and industrial domains Consisting of four sections Development and Optimization of Green IT Modelling and Experiments with Green IT Systems Industry and Transport Green IT Systems Social Educational and Business Aspects of Green IT it presents results in two areas the green components networks cloud and IoT systems and infrastructures and the industry business social and education domains It discusses hot topics such as programmable embedded and mobile systems sustainable software and data centers Internet servicing and cyber social computing assurance cases and lightweight cryptography in context of green IT Intended for university students lecturers and researchers who are interested in power saving and sustainable computing the book also appeals to engineers and managers of companies that develop and implement energy efficient IT applications   Open-Source Electronics Platforms Trung Dung Ngo,2019-05-20 Open source electronics are becoming very popular and are integrated with our daily educational and developmental activities At present the use open source electronics for teaching science technology engineering and mathematics STEM has become a global trend Off the shelf embedded electronics such as Arduino and Raspberry compatible modules have been widely used for various applications from do it yourself DIY to industrial projects In addition to the growth of open source software platforms open source electronics play an important role in narrowing the gap between prototyping and product development Indeed the technological and social impacts of open source electronics in teaching research and innovation have been widely recognized   *Logic, Rewriting, and Concurrency* Narciso Martí-Oliet,Peter Csaba Ölveczky,Carolyn Talcott,2015-08-26 This Festschrift volume contains 28 refereed papers including personal memories essays and regular research papers by close collaborators and friends of Jos Meseguer to honor him on the occasion of his 65th birthday These papers were presented at a symposium at the University of Illinois at Urbana Champaign on September 23 25 2015 The symposium also featured

invited talks by Claude and H l ne Kirchner and by Patrick Lincoln The foreword of this volume adds a brief overview of some of Jos s many scientific achievements followed by a bibliography of papers written by Jos   Security Trends for FPGAS Benoit Badrignans,Jean Luc Danger,Viktor Fischer,Guy Gogniat,Lionel Torres,2011-06-20 In Security Trends for FPGA s the authors present an analysis of current threats against embedded systems and especially FPGAs They discuss about requirements according to the FIPS standard in order to build a secure system This point is of paramount importance as it guarantees the level of security of a system Also highlighted are current vulnerabilities of FPGAs at all the levels of the security pyramid It is essential from a design point of view to be aware of all the levels in order to provide a comprehensive solution The strength of a system is defined by its weakest point there is no reason to enhance other protection means if the weakest point remains untreated Many severe attacks have considered this weakness in order not to face brute force attack complexity Several solutions are proposed in Security Trends for FPGA s especially at the logical architecture and system levels in order to provide a global solution   **Handbook of Networked and Embedded Control Systems** Dimitrios Hristu-Varsakelis,William S. Levine,2007-11-14 The vast majority of control systems built today are embedded that is they rely on built in special purpose digital computers to close their feedback loops Embedded systems are common in aircraft factories chemical processing plants and even in cars a single high end automobile may contain over eighty different computers The design of embedded controllers and of the intricate automated communication networks that support them raises many new questions practical as well as theoretical about network protocols compatibility of operating systems and ways to maximize the effectiveness of the embedded hardware This handbook the first of its kind provides engineers computer scientists mathematicians and students a broad comprehensive source of information and technology to address many questions and aspects of embedded and networked control Separated into six main sections Fundamentals Hardware Software Theory Networking and Applications this work unifies into a single reference many scattered articles websites and specification sheets Also included are case studies experiments and examples that give a multifaceted view of the subject encompassing computation and communication considerations   *Nuclear Power Plant Instrumentation and Control Systems for Safety and Security* Yastrebenetsky, Michael A.,Kharchenko, Vyacheslav,2014-02-28 Accidents and natural disasters involving nuclear power plants such as Chernobyl Three Mile Island and the recent meltdown at Fukushima are rare but their effects are devastating enough to warrant increased vigilance in addressing safety concerns Nuclear Power Plant Instrumentation and Control Systems for Safety and Security evaluates the risks inherent to nuclear power and methods of preventing accidents through computer control systems and other such emerging technologies Students and scholars as well as operators and designers will find useful insight into the latest security technologies with the potential to make the future of nuclear energy clean safe and reliable   **The Industrial Electronics Handbook - Five Volume Set** Bogdan M. Wilamowski,J. David Irwin,2011-03-04 Industrial electronics systems govern so many different functions that vary

in complexity from the operation of relatively simple applications such as electric motors to that of more complicated machines and systems including robots and entire fabrication processes The Industrial Electronics Handbook Second Edition combines traditional and new   Fundamentals of IP and SoC Security Swarup Bhunia,Sandip Ray,Susmita Sur-Kolay,2017-01-24 This book is about security in embedded systems and it provides an authoritative reference to all aspects of security in system on chip SoC designs The authors discuss issues ranging from security requirements in SoC designs definition of architectures and design choices to enforce and validate security policies and trade offs and conflicts involving security functionality and debug requirements Coverage also includes case studies from the trenches of current industrial practice in design implementation and validation of security critical embedded systems Provides an authoritative reference and summary of the current state of the art in security for embedded systems hardware IPs and SoC designs Takes a cross cutting view of security that interacts with different design and validation components such as architecture implementation verification and debug each enforcing unique trade offs Includes high level overview detailed analysis on implementation and relevant case studies on design verification debug issues related to IP SoC security   *Handbook of Computer Architecture* Anupam Chattopadhyay,2024-12-20 This handbook presents the key topics in the area of computer architecture covering from the basic to the most advanced topics including software and hardware design methodologies It will provide readers with the most comprehensive updated reference information covering applications in single core processors multicore processors application specific processors reconfigurable architectures emerging computing architectures processor design and programming flows test and verification This information benefits the readers as a full and quick technical reference with a high level review of computer architecture technology detailed technical descriptions and the latest practical applications   **Hardware Security** Debdeep Mukhopadhyay,Rajat Subhra Chakraborty,2014-10-29 Beginning with an introduction to cryptography Hardware Security Design Threats and Safeguards explains the underlying mathematical principles needed to design complex cryptographic algorithms It then presents efficient cryptographic algorithm implementation methods along with state of the art research and strategies for the design of very large scale integrated VLSI circuits and symmetric cryptosystems complete with examples of Advanced Encryption Standard AES ciphers asymmetric ciphers and elliptic curve cryptography ECC Gain a Comprehensive Understanding of Hardware Security from Fundamentals to Practical Applications Since most implementations of standard cryptographic algorithms leak information that can be exploited by adversaries to gather knowledge about secret encryption keys Hardware Security Design Threats and Safeguards Details algorithmic and circuit level countermeasures for attacks based on power timing fault cache and scan chain analysis Describes hardware intellectual property piracy and protection techniques at different levels of abstraction based on watermarking Discusses hardware obfuscation and physically unclonable functions PUFs as well as Trojan modeling taxonomy detection and prevention Design for Security and Meet Real Time Requirements If you consider

security as critical a metric for integrated circuits ICs as power area and performance you ll embrace the design for security methodology of Hardware Security Design Threats and Safeguards **Reconfigurable Computing: Architectures, Tools and Applications** Pedro C. Diniz,2007-03-19 This book constitutes the refereed proceedings of the Third International Workshop on Applied Reconfigurable Computing ARC 2007 held in Mangaratiba Brazil in March 2007 The 27 full papers and 10 short papers presented together with a late comer contribution from ARC 2006 are organized in topical sections on architectures mapping techniques and tools arithmetic and applications **Cryptographic Hardware and Embedded Systems - CHES 2006** Louis Goubin,Mitsuru Matsui,2006-10-17 This book constitutes the refereed proceedings of the 8th International Workshop on Cryptographic Hardware and Embedded Systems CHES 2006 held in Yokohama Japan in October 2006 The 32 revised full papers presented together with three invited talks were carefully reviewed and selected from 112 submissions **RFID Handbook** Syed A. Ahson,Mohammad Ilyas,2017-12-19 Radio Frequency Identification RFID tagging is now used by the department of defense and many of the world s largest retailers including Wal Mart As RFID continues to infiltrate industries worldwide organizations must harness a clear understanding of this technology in order to maximize its potential and protect against the potential risks it poses The RFID Handbook provides an overview of RFID technology its associated security and privacy risks and recommended practices that will enable organizations to realize productivity improvements while also protecting sensitive information and the privacy of individuals Expert contributors present a host of applications including RFID enabled automated receiving triage with RFID for massive incidents RFID and NFC in relation to mobile phones and RFID technologies for communication robots and a privacy preserving video surveillance system The unprecedented coverage also includes detailed descriptions of adaptive splitting protocols as well as tree based and probabilistic anti collision protocols Drawing on its distinguished editors and world renowned contributors this one of a kind handbook serves as the ultimate reference on RFID from basic research concepts to future applications *Handbook of Research on Wireless Security* Yan Zhang,Jun Zheng (Ph.D.),Miao Ma,2008-01-01 Provides research on security issues in various wireless communications recent advances in wireless security the wireless security model and future directions in wireless security *Soft Computing for Security Applications* G. Ranganathan,Xavier Fernando,Fuqian Shi,Youssouf El Allioui,2021-10-25 This book features selected papers from the International Conference on Soft Computing for Security Applications ICSCS 2021 held at Dhirajlal Gandhi College of Technology Tamil Nadu India during June 2021 It covers recent advances in the field of soft computing techniques such as fuzzy logic neural network support vector machines evolutionary computation machine learning and probabilistic reasoning to solve various real time challenges The book presents innovative work by leading academics researchers and experts from industry

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