Jürgen Becker
Marco Platzner
Serge Vernalde (Eds.)

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Field-Programmable Logic and Applications

14th International Conference, FPL 2004
Antwerp, Belgium, August/September 2004
Proceedings

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Gordon Brebner

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Field Programmable Logic and Application Jürgen Becker,Marco Platzner,Serge Vernalde,2004-08-11 This book contains the papers presented at the 14th International Conference on Field Programmable Logic and Applications FPL held during August 30th September 1st 2004 The conference was hosted by the Interuniversity Micro Electronics Center IMEC in Leuven Belgium The FPL series of conferences was founded in 1991 at Oxford University UK and has been held annually since in Oxford 3 times Vienna Prague Darmstadt London Tallinn Glasgow Villach Belfast Montpellier and Lisbon It is the largest and oldest conference in reconfigurable computing and brings together academic researchers industry experts users and newcomers in an informal welcoming atmosphere that encourages productive exchange of ideas and knowledge between the delegates The fast and exciting advances in field programmable logic are increasing steadily with more and more application potential and need New ground has been broken in architectures design techniques partial run time reconfiguration and applications of field programmable devices in several different areas Many of these recent innovations are reported in this volume The size of the FPL conferences has grown significantly over the years FPL in 2003 saw 216 papers submitted The interest and support for FPL in the programmable logic community continued this year with 285 scientific papers submitted demonstrating a 32% increase when compared to the year before The technical program was assembled from 78 selected regular papers 45 additional short papers and 29 posters resulting in this volume of proceedings The program also included three invited plenary keynote presentations from Xilinx Gilder Technology Report and Altera and three embedded tutorials from Xilinx the Universit at Karlsruhe TH and the University of Oslo Cryptographic Algorithms on Reconfigurable Hardware Francisco Rodriguez-Henriquez,N.A. Saqib,Arturo Díaz Pérez,Cetin Kaya Koc,2007-04-03 Software based cryptography can be used for security applications where data traffic is not too large and low encryption rate is tolerable But hardware methods are more suitable where speed and real time encryption are needed Until now there has been no book explaining how cryptographic algorithms can be implemented on reconfigurable hardware devices This book covers computational methods computer arithmetic algorithms and design improvement techniques needed to implement efficient cryptographic algorithms in FPGA reconfigurable hardware platforms The author emphasizes the practical aspects of reconfigurable hardware design explaining the basic mathematics involved and giving a comprehensive description of state of the art implementation techniques **Field Programmable Logic and Application** Jürgen Becker,Marco Platzner,Serge Vernalde,2004-08-19 This book constitutes the refereed proceedings of the 14th International Conference on Field Programmable Logic FPL 2003 held in Leuven Belgium in August September 2004 The 78 revised full papers 45 revised short papers and 29 poster abstracts presented together with 3 keynote contributions and 3 tutorial summaries were carefully reviewed and selected from 285 papers submitted The papers are organized in topical sections on organic and

biologic computing security and cryptography platform based design algorithms and architectures acceleration application architecture physical design arithmetic multitasking circuit technology network processing testing applications signal processing computational models and compiler dynamic reconfiguration networks and optimisation algorithms system on chip high speed design image processing network on chip power aware design IP based design co processing architectures system level design physical interconnect computational models cryptography and compression network applications and architecture and debugging and test Power Analysis Attacks Stefan Mangard,Elisabeth Oswald,Thomas Popp,2008-01-03 Power analysis attacks allow the extraction of secret information from smart cards Smart cards are used in many applications including banking mobile communications pay TV and electronic signatures In all these applications the security of the smart cards is of crucial importance Power Analysis Attacks Revealing the Secrets of Smart Cards is the first comprehensive treatment of power analysis attacks and countermeasures Based on the principle that the only way to defend against power analysis attacks is to understand them this book explains how power analysis attacks work Using many examples it discusses simple and differential power analysis as well as advanced techniques like template attacks Furthermore the authors provide an extensive discussion of countermeasures like shuffling masking and DPA resistant logic styles By analyzing the pros and cons of the different countermeasures this volume allows practitioners to decide how to protect smart cards *BORPH: an Operating System for FPGA-based Reconfigurable Computers* Hayden Kwok-Hay So,2007 **CODES+ISSS ...** ,2006

Field Programmable Logic and Applications Patrick Lysaght,James Irvine,Reiner Hartenstein,2004-06-22 This book contains the papers presented at the 9th International Workshop on Field ProgrammableLogic and Applications FPL 99 hosted by the University of Strathclyde in Glasgow Scotland August 30 September 1 1999 FPL 99 is the ninth in the series of annual FPL workshops The FPL 99 programme committee has been fortunate to have received a large number of high quality papers addressing a wide range of topics From these 33 papers have been selected for presentation at the workshop and a further 32 papers have been accepted for the poster sessions A total of 65 papers from 20 countries are included in this volume FPL is a subject area that attracts researchers from both electronic engine ing and computer science Whether we are engaged in research into soft ha ware or hard software seems to be primarily a question of perspective What is unquestionable is that the interaction of groups of researchers from di erent backgrounds results in stimulating and productive research As we prepare for the new millennium the premier European forum for searchers in eld programmable logic remains the FPL workshop Next year the FPL series of workshopswill celebrate its tenth anniversary The contribution of so many overseas researchers has been a particularly attractive feature of these events giving them a truly international perspective while the informal and convivial atmosphere that pervades the workshops have been their hallmark We look forward to preserving these features in the future while continuing to expand the size and quality of the events

Proceedings : 2006 International Conference on Field-Programmable Logic and Applications (FPL) : Madrid,

Mapain, August 28-30, 2006 International Conference on Field Programmable Logic and Applications,2006 Field Programmable Logic and Applications Peter Y.K. Cheung,Georg A. Constantinides,Jose T. de Sousa,2003-10-02 This book contains the papers presented at the 13th International Workshop on Field Programmable Logic and Applications FPL held on September 1 3 2003 The conference was hosted by the Institute for Systems and Computer Engineering Research and Development of Lisbon INESC ID and the Depa ment of Electrical and Computer Engineering of the IST Technical University of Lisbon Portugal The FPL series of conferences was founded in 1991 at Oxford University UK and has been held annually since in Oxford 3 times Vienna Prague Darmstadt London Tallinn Glasgow Villach BelfastandMontpellier Itbrings together academic researchers industrial experts users and newcomers in an formal welcomingatmospherethatencouragesproductiveexchangeofideasand knowledge between delegates Exciting advances in eld programmable logic show no sign of slowing down New grounds have been broken in architectures design techniques run time con guration and applications of eld programmable devices in several di erent areas Many of these innovations are reported in this volume The size of FPL conferences has grown signi cantly over the years FPL in 2002 saw 214 papers submitted representing an increase of 83% when compared to the year before The interest and support for FPL in the programmable logic community continued this year with 216 papers submitted The technical p gram was assembled from 90 selected regular papers and 56 posters resulting in this volume of proceedings The program also included three invited plenary keynote presentations from LSI Logic Xilinx and Cadence and three industrial tutorials from Altera Mentor Graphics and Dafca **Field Programmable Logic and Applications** Patrick Lysaght,James Irvine,Reiner Hartenstein,1999-08-20 This book contains the papers presented at the 9th International Workshop on Field ProgrammableLogic and Applications FPL 99 hosted by the University of Strathclyde in Glasgow Scotland August 30 September 1 1999 FPL 99 is the ninth in the series of annual FPL workshops The FPL 99 programme committee has been fortunate to have received a large number of high quality papers addressing a wide range of topics From these 33 papers have been selected for presentation at the workshop and a further 32 papers have been accepted for the poster sessions A total of 65 papers from 20 countries are included in this volume FPL is a subject area that attracts researchers from both electronic engine ing and computer science Whether we are engaged in research into soft ha ware or hard software seems to be primarily a question of perspective What is unquestionable is that the interaction of groups of researchers from di erent backgrounds results in stimulating and productive research As we prepare for the new millennium the premier European forum for searchers in eld programmable logic remains the FPL workshop Next year the FPL series of workshopswill celebrate its tenth anniversary The contribution of so many overseas researchers has been a particularly attractive feature of these events giving them a truly international perspective while the informal and convivial atmosphere that pervades the workshops have been their hallmark We look forward to preserving these features in the future while continuing to expand the size and quality of the events

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revised regular papers and 27 poster papers presented together with three invited contributions were carefully reviewed and selected from 214 submissions The papers are organized in topical sections on rapid prototyping FPGA synthesis custom computing engines DSP applications reconfigurable fabrics dynamic reconfiguration routing and placement power estimation synthesis issues communication applications new technologies reconfigurable architectures multimedia applications FPGA based arithmetic reconfigurable processors testing and fault tolerance crypto applications multitasking compilation techniques etc **2016 26th International Conference on Field Programmable Logic and Applications (FPL)** IEEE Staff,2016-08-29 The International Conference on Field Programmable Logic and Applications FPL is the first and largest conference covering the rapidly growing area of field programmable logic During the past 26 years many of the advances achieved in reconfigurable system architectures applications embedded processors design automation methods EDA and tools have been first published in the proceedings of the FPL conference series FPL 2016 will offer the following five conference tracks Architectures and Technology Applications and Benchmarks Design Methods and Tools Self aware and Adaptive Systems Surveys Trends and Education **Field-Programmable Logic and Applications. From FPGAs to Computing Paradigm** Reiner W. Hartenstein,Andres Keevallik,2003-06-29 This book constitutes the refereed proceedings of the 8th International Workshop on Field Programmable Logics and Applications FPL 98 held in Tallinn Estonia in August September 1998 The 39 revised full papers presented were carefully selected for inclusion in the book from a total of 86 submissions Also included are 30 refereed high quality posters The papers are organized in topical sections on design methods general aspects prototyping and simulation development methods accelerators system architectures hardware software codesign system development algorithms on FPGAs and applications *2006 International Conference on Field Programmable Logic and Applications* Koen Bertels,2006-01-01

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