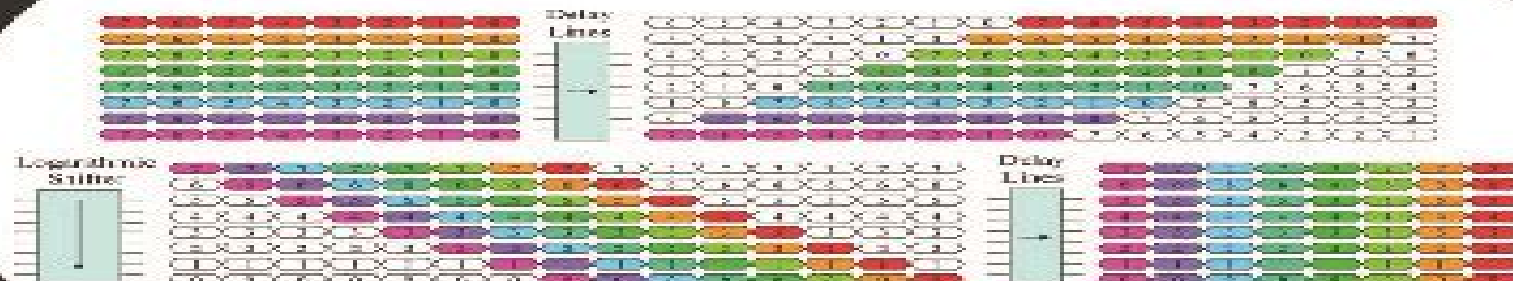


Applications of Field-Programmable Gate Arrays in Scientific Research



Hartmut F.-W. Sadrozinski
Jinyuan Wu



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Applications Of Field Programmable Gate Arrays In Scientific Research

Jürgen Becker, Marco Platzner, Serge Vernalde



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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

Field-Programmable Logic and Applications: Reconfigurable Computing Is Going Mainstream Manfred Glesner, Peter Zipf, Michel Renovell, 2003-08-02 This book constitutes the refereed proceedings of the 12th International Conference on Field Programmable Logic and Applications FPL 2002 held in Montpellier France in September 2002 The 104 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

Field Programmable Gate Arrays (FPGAs) II George Dekoulis, 2020-09-09 This Edited Volume Field Programmable Gate Arrays FPGAs II is a collection of reviewed and relevant research chapters offering a comprehensive overview of recent developments in the field of Computer and Information Science The book comprises single chapters authored by various

researchers and edited by an expert active in the Computer and Information Science research area All chapters are complete in itself but united under a common research study topic This publication aims at providing a thorough overview of the latest research efforts by international authors on Computer and Information Science and open new possible research paths for further novel developments **Recent Advancements in ICT Infrastructure and Applications** Manish

Chaturvedi,Pankesh Patel,Ramnarayan Yadav,2022-06-11 This book covers complete spectrum of the ICT infrastructure elements required to design develop and deploy the ICT applications at large scale Considering the focus of governments worldwide to develop smart cities with zero environmental footprint the book is timely and enlightens the way forward to achieve the goal by addressing the technological aspects In particular the book provides an in depth discussion of the sensing infrastructure communication protocols computation frameworks storage architectures software frameworks and data analytics The book also presents the ICT application related case studies in the domain of transportation health care energy and disaster management to name a few The book is used as a reference for design development and large scale deployment of ICT applications by practitioners professionals government officials and engineering students Issues in Electronics Research and Application: 2011 Edition ,2012-01-09 Issues in Electronics Research and Application 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Electronics Research and Application The editors have built Issues in Electronics Research and Application 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Electronics Research and Application in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Electronics Research and Application 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

High-Performance Computing Systems and Technologies in Scientific Research, Automation of Control and Production Vladimir Jordan,Nikolay Filimonov,Ilya Tarasov,Vladimir Faerman,2021-01-15 This book constitutes selected revised and extended papers from the 10th International Conference on High Performance Computing Systems and Technologies in Scientific Research Automation of Control and Production HPCST 2020 Barnaul Russia in May 2020 Due to the COVID 19 pandemic the conference was partly held in virtual mode The 14 full papers presented in this volume were thoroughly reviewed and selected from 51 submissions The papers are organized in topical sections on hardware for high performance computing and its applications information technologies and computer simulation of physical phenomena

Advances in Computer Science and Information Engineering David Jin,Sally Lin,2012-05-11 CSIE2012 is an integrated conference concentrating its focus on Computer Science and Information Engineering In the proceeding you can learn much

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Critical Infrastructure Antonio Di Pietro, José Martí, 2024-02-14 Modern critical infrastructures CIs e g electricity water transportation telecommunications and others form complex systems with a high degree of interdependencies from one CI to the others Natural disasters e g earthquakes floods droughts landslides and wildfires humanmade disasters e g sabotage and terrorism and system faults due to structural and equipment failures will affect not only the directly impacted CI but all interdependent CIs Risk assessment therefore has to be done over the entire system of CIs and should also include the social and personal impacts According to a 2022 report 80% of cities have been affected by significant climate change hazards represented by extreme heat 46% heavy rainfall 36% drought 35% and floods 33% The impacts of climate change therefore affect the complex system of the built environment and result in interrelated consequences at different scales ranging from single buildings to urban spaces and territorial infrastructures Since it is not possible to reduce the severity of natural hazards the main opportunity for lowering risk lies in reducing vulnerability and exposure Vulnerability and exposure are related to urban development choices and practices that weaken the system s robustness This volume reviews recent insights from risk identification and reduction to preparedness and financial protection strategies and proposes new approaches for better CIs and built environment protection

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