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Reconfigurable Computing: Architectures, Tools and Applications

8th International Symposium, ARC 2012
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Proceedings

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Preface

The 8th International Symposium on Applied Reconfigurable Computing (ARC 2012) was held at the Chinese University of Hong Kong (CUHK), Shatin, Hong Kong during March 21–23, 2011. The symposium also included industrial workshops provided by Xilinx and Altera in CUHK and the City University of Hong Kong during March 19–20, 2011. The symposium and workshop were sponsored by Xilinx Inc., Altera Corp., and CPO Technologies Corporation.

ARC 2012 received 44 submissions from 17 countries all over the world. Each paper was reviewed by at least four committee members, involving nearly 200 reviews. More than 80 committee members were invited to form the Program Committee according to their particular areas of expertise. The Program Committee selected 25 papers for oral presentation, and 10 poster papers for the proceedings. The main theme this year was "ARC for better living". The program was completed with five excellent invited talks given by Michael J. Flynn (Stanford University), Sorin A. Huss (Technische Universitaet Darmstadt), Cetin Kaya Koc (UCSB), Wayne Luk (Imperial College London), and Grant Martin (Tensilica Inc.).

Many people contributed to the success of ARC 2012. First, we would like to thank all the authors who submitted their excellent research results to ARC. Second, we would like to thank all of the 80 Program Committee members, as well as the external reviewers, who volunteered to read the papers. We are greatly indebted to the Proceedings Chair, Yuet Ming Lam, for his relentless efforts in compiling the proceedings. We would like to thank the local Organizing Committee Chairs, Evan Young, Hayden So, and their team for all the hotel and local arrangements. We would like to thank all the great efforts of the ARC 2012 Organizing Committee team, and the Conference Secretariat, Momentous Asia, Hong Kong. Finally, we want to express our gratitude to our generous sponsors: Xilinx Inc., Altera Corp., CPO Technologies Corporation, and the support from the local Hong Kong universities and the IEEE Hong Kong Section Computer Society Chapter and CAS/COM Chapter.

December 2011

Oliver Choy
Ray Cheung
Peter Athanas
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ARC 2012 was organized by the Department of Electronic Engineering, the Chinese University of Hong Kong and the Department of Electronic Engineering, City University of Hong Kong.

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Table of Contents

Applied RC Design Methods and Tools

Automating Reconfiguration Chain Generation for SRL-Based Run-Time Reconfiguration 1
Karel Heyse, Brahim Al Farisi, Karel Bruneel, and Dirk Stroobandt

Architecture-Aware Reconfiguration-Centric Floorplanning for Partial Reconfiguration 13
Kizheppatt Vipin and Suhaib A. Fahmy

Domain-Specific Language and Compiler for Stencil Computation on FPGA-Based Systolic Computational-Memory Array 26
Wang Luzhou, Kentaro Sano, and Satoru Yamamoto

Exploiting Both Pipelining and Data Parallelism with SIMD Reconfigurable Architecture 40
Yongjoo Kim, Jongeun Lee, Jinyong Lee, Toan X. Mai, Ingoo Heo, and Yunheung Paek

Table-Based Division by Small Integer Constants 53
Florent de Dinechin and Laurent-Stéphane Didier

Heterogeneous Systems for Energy Efficient Scientific Computing 64
Qiang Liu and Wayne Luk

The Q^2 Profiling Framework: Driving Application Mapping for Heterogeneous Reconfigurable Platforms 76
S. Arash Ostadzadeh, Roel Meeuws, Imran Ashraf, Carlo Galuzzi, and Koen Bertels

Applied RC Architectures

PPMC: A Programmable Pattern Based Memory Controller 89
Tassadaq Hussain, Muhammad Shafiq, Miquel Pericàs, Nacho Navarro, and Eduard Ayguadé

A Run-Time Task Migration Scheme for an Adjustable Issue-Slots Multi-core Processor 102
Fakhar Anjam, Quan Kong, Roel Seedorf, and Stephan Wong

Boosting Single Thread Performance in Mobile Processors via Reconfigurable Acceleration 114
Geoffrey Ndu and Jim Garside

Complexity Analysis of Finite Field Digit Serial Multipliers on FPGAs 126
Gang Zhou, Li Li, and Harald Michalik

ScalableCore System: A Scalable Many-Core Simulator by Employing over 100 FPGAs 138
Shinya Takamaeda-Yamazaki, Shintaro Sano, Yoshito Sakaguchi, Naoki Fujieda, and Kenji Kise

Scalable Memory Hierarchies for Embedded Manycore Systems 151
Sen Ma, Miaoqing Huang, Eugene Cartwright, and David Andrews

Triple Module Redundancy of a Laser Array Driver Circuit for Optically Reconfigurable Gate Arrays 163
Takahiro Watanabe and Minoru Watanabe

A Routing Architecture for FPGAs with Dual-VT Switch Box and Logic Clusters 174
Wei Ting Loke and Yajun Ha

Applied RC Applications

Multi-level Customisation Framework for Curve Based Monte Carlo Financial Simulations 187
Qiwei Jin, Diwei Dong, Anson H.T. Tse, Gary C.T. Chow, David B. Thomas, Wayne Luk, and Stephen Weston

A Low-Cost and High-Performance Virus Scanning Engine Using a Binary CAM Emulator and an MPU 202
Hiroki Nakahara, Tsutomu Sasao, and Munehiro Matsuura

Cost Effective Implementation of Flux Limiter Functions Using Partial Reconfiguration 215
Mohamad Sofian Abu Talip, Takayuki Akamine, Yasunori Osana, Naoyuki Fujita, and Hideharu Amano

Parallel Tempering MCMC Acceleration Using Reconfigurable Hardware 227
Grigorios Mingas and Christos-Savvas Bouganis

A High Throughput FPGA-Based Implementation of the Lanczos Method for the Symmetric Extremal Eigenvalue Problem 239
Abid Rafique, Nachiket Kapre, and George A. Constantinides

Optimising Performance of Quadrature Methods with Reduced Precision 251
Anson H.T. Tse, Gary C.T. Chow, Qiwei Jin, David B. Thomas, and Wayne Luk

Critical Issues in Applied RC

Teaching Hardware/Software Codesign on a Reconfigurable Computing Platform . . . 264
Markus Weinhardt

Securely Sealing Multi-FPGA Systems . . . 276
Tim Güneysu, Igor Markov, and André Weimerskirch

FPGA Paranoia: Testing Numerical Properties of FPGA Floating Point IP-Cores . . . 290
Xuan You Tan, David Boland, and George Constantinides

High Performance Reconfigurable Architecture for Double Precision Floating Point Division . . . 302
Manish Kumar Jaiswal and Ray C.C. Cheung

Posters

A Modular-Based Assembly Framework for Autonomous Reconfigurable Systems . . . 314
Tannous Frangieh, Richard Stroop, Peter Athanas, and Teresa Cervero

Constructing Cluster of Simple FPGA Boards for Cryptologic Computations . . . 320
Yarkin Doröz and Erkay Savaş

Reconfigurable Multicore Architecture for Dynamic Processor Reallocation . . . 329
Annie Avakian, Natwar Agrawal, and Ranga Vemuri

Efficient Communication for FPGA Clusters . . . 335
Stewart Denholm, Kuen Hung Tsoi, Peter Pietzuch, and Wayne Luk

Performance Analysis of Reconfigurable Processors Using MVA Analysis . . . 342
Ehsan Zadkhosh, Sepide Fatahi, and Mahmood Ahmadi

PDPR: Fine-Grained Placement for Dynamic Partially Reconfigurable FPGAs . . . 350
Ruining He, Guoqiang Liang, Yuchun Ma, Yu Wang, and Jinian Bian

A Connection Router for the Dynamic Reconfiguration of FPGAs . . . 357
Elias Vansteenkiste, Karel Bruneel, and Dirk Stroobandt

R-NoC: An Efficient Packet-Switched Reconfigurable Networks-on-Chip . . . 365
Hongbing Fan, Yue-Ang Chen, and Yu-Liang Wu

Novel Arithmetic Architecture for High Performance Implementation of SHA-3 Finalist Keccak on FPGA Platforms 372
Kashif Latif, M. Muzaffar Rao, Athar Mahboob, and Arshad Aziz

CRAIS: A Crossbar Based Adaptive Interconnection Scheme 379
Chao Wang, Xi Li, Xuehai Zhou, and Xiaojing Feng

Author Index 385