

XV Brazilian Symposium on High Performance Computational Systems (WSCAD 2014)

Journal of Physics: Conference Series Volume 649

Sao Jose dos Campos, Brazil
8 – 10 October 2014

Editors:

Alba Melo
Alvaro Fazenda

Denise Stringhini

ISBN: 978-1-5108-1476-9
ISSN: 1742-6588

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2014) by the Institute of Physics
All rights reserved. The material featured in this book is subject to
IOP copyright protection, unless otherwise indicated.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact the Institute of Physics
at the address below.

Institute of Physics
Dirac House, Temple Back
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481
Fax: 44 1 17 920 0979

techtracking@iop.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

Table of contents

Volume 649

XV Brazilian Symposium on High Performance Computational Systems (WSCAD 2014)

8–10 October 2014, São Jose dos Campos, SP, Brazil

Accepted papers received: 1 October 2015

Published online: 19 October 2015

Preface

011001

[XV Brazilian Symposium on High Performance Computational Systems \(WSCAD 2014\)](#)

OPEN ACCESS A Melo, A Fazenda, D Stringhini

011002

[Peer review statement](#) OPEN ACCESS

Papers

012001

[LALPC: Exploiting Parallelism from FPGAs Using C Language](#) OPEN ACCESS Lucas

F Porto, Marcio M Fernandes, Vanderlei Bonato and Ricardo Menotti pg. 1

012002

[A mechanism to reduce energy waste in the post-execution of GPU applications](#) OPEN

ACCESS Emmanuell D Carreño, Adiel S Sarates Jr and Philippe O A Navaux pg. 15

012003

[Code optimization by using GPU applied to a Dataflow numerical simulation model](#)

OPEN ACCESS Luiz E S Evangelista, Alvaro L Fazenda and Vincius V de Melo pg. 26

012004

[Optimizing Quantum Simulation for Heterogeneous Computing: a Hadamard](#)

[Transformation Study](#) OPEN ACCESS Anderson B de Avila, Murilo F Schumalfuss,

Renata H S Reiser, Mauricio L Pilla and Adriano K Maron pg. 41

012005

[Middleware for Processing Message Queues with Elasticity Support and Sequential Integrity of Asynchronous Message Processing](#) OPEN ACCESS Eduardo Henrique Teixeira and Aletéia Patrícia Favacho de Araújo pg. 58

012006

[Towards Cloud-based Asynchronous Elasticity for Iterative HPC Applications](#) OPEN ACCESS Rodrigo da Rosa Righi, Vinicius Facco Rodrigues, Cristiano André da Costa, Diego Kreutz and Hans-Ulrich Heiss pg. 73

012007

[ComprehensiveBench: a Benchmark for the Extensive Evaluation of Global Scheduling Algorithms](#) OPEN ACCESS Laércio L Pilla, Tiago C Bozzetti, Márcio Castro, Philippe O A Navaux and Jean-François Méhaut pg. 92