

FUTURE COMPUTING 2016

The Eighth International Conference on Future Computational Technologies and Applications

March 20 - 24, 2016

Rome, Italy

FUTURE COMPUTING 2016 Editors

Rudolf Berrendorf, Bonn-Rhein-Sieg University, Germany Kendall E. Nygard, North Dakota State University - Fargo, USA

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© (4238) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (4238)

International Academy, Research, and Industry Association (IARIA) 412 Derby Way Wilmington, DE 19810

Phone: (408) 893-6407 Fax: (408) 527-6351

petre@iaria.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: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

Table of Contents

Multiobjective Power Loss Optimization Versus System Stability Assessment for Hydrocarbon Industrial Plant Using Differential Evolution Algorithm Muhammad Al-Hajri, Mohamed Darwish, and Mohammed Abido	1
SEEV-Effort - Is it Enough to Model Human Attentional Behavior in Public Display Settings Benedikt Gollan and Alois Ferscha	8
Unconventional Computing Using Evolution-in-Nanomaterio: Neural Networks meet Nanoparticle Networks Klaus Greff, Ruud van Damme, Jan Koutnik, Hajo Broersma, Julia Mikhal, Celestine Lawrence, Wilfred van der Wiel, and Jurgen Schmidhuber	15
Towards a Fuzzy Logic Environment for Android Ramon Lujan, Gines Moreno, and Carlos Vazquez	21
Evaluation of Jurisprudence Arguments Based on Annotations of Logical Structures and Speech Acts Shumpei Kubosawa, Shogo Okada, and Katsumi Nitta	28
Program Optimization Strategies to Improve the Performance of SpMV-Operations Rudolf Berrendorf, Max Weierstall, and Florian Mannuss	34
Use of RBM for Identifying Linkage Structures of Genetic Algorithms Hisashi Handa	41
Post Deployment Secure Key Management in Wireless Ad hoc Networks Paul Loree and Kendall E. Nygard	47
Studies on nVidia GPUs in Parallel Computing for Lattice Quantum Chromodynamics and Computational Fluid Dynamics Applications Simone Coscetti	54
Benchmarking Big Data Applications: A Review Sayaka Akioka	59