



FUTURE COMPUTING 2010

The Second International Conference on Future Computational
Technologies and Applications

November 21-26, 2010 - Lisbon, Portugal

ComputationWorld 2010 Editors

Ali Beklen, IBM Turkey, Turkey

Jorge Ejarque, Barcelona Supercomputing Center, Spain

Wolfgang Gentzsch, EU Project DEISA, Board of Directors of OGF, Germany

Teemu Kanstren, VTT, Finland

Arne Koschel, Fachhochschule Hannover, Germany

Yong Woo Lee, University of Seoul, Korea

Li Li, Avaya Labs Research - Basking Ridge, USA

Michal Zemlicka, Charles University - Prague, Czech Republic

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© (2010) by International Academy, Research, and Industry Association (IARIA)
Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2012)

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: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

FUTURE COMPUTING 1: COMPUTING TECHNOLOGIES

Knowledge-based Tool for Software Process Assessment and Improvement.....	1
<i>Maria Silva, Ana Correia, Carlos Costa, Leandro Silva, Rodrigo Praes, João Sousa, Gustavo Carvalho</i>	
Implementing a VoIP SIP Server and User Agent on a Bare PC	8
<i>Andre Alexander, Alexander Wijesinha, Ramesh Karne</i>	
A Dendritic Cell Inspired Security System in Wireless Sensor Networks.....	14
<i>Jingjun Zhao, Kendall E. Nygard</i>	

FUTURE COMPUTING 2: COMPUTATIONAL INTELLIGENCE STRATEGIES

Study on the Improved D-S Evidence Theory and its Application on Gas Outburst Prediction	22
<i>Yanzi Miao, Y. Chen, H. X. Zhang, J. W. Zhang</i>	
An Optimal Resource Assignment Problem in Smart Grid	28
<i>Prakash Ranganathan, Kendall Nygard</i>	
An Integrated VLE to Enhance Social Interaction for User-centred Active Learning.....	35
<i>Li Jin, Zhigang Wen</i>	
Author Index	