



ICCGI 2015

The Tenth International Multi-Conference on Computing in the Global
Information Technology

October 11 - 16, 2015

St. Julians, Malta

ICCGI 2015 Editors

Hermann Kaindl, Vienna University of Technology, Vienna, Austria

György Kálmán, mnemonic AS, Norway

Dan Tamir, Texas State University, 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© (4237) by International Academy, Research, and Industry Association (IARIA)
Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (4237)

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

ICCGI 1: NETWORKING TECHNOLOGIES

Towards Migration of User Profiles in the SONIC Online Social Network Federation	1
<i>S. Gondor, F. Beierle, E. Kucukbayraktar, H. Hebbo, S. Sharhan, A. Kupper</i>	
Active Intrusion Management for Web Server Software: Case WordPress	6
<i>P. Paarnio, M. Westerlund, S. Stenvall, G. Pulkkis</i>	
Idea for Location and Detection of Fiber Cuts in PON	13
<i>M. Lopez</i>	
Security Implications of Software Defined Networking in Industrial Control Systems	17
<i>G. Kalman</i>	
An Authorisation and Access Control Framework for Information Sharing on the Semantic Web	23
<i>O. Sacco, J. Breslin</i>	

ICCGI 2: DIGITAL INFORMATION PROCESSING

Facial Part Effects Analysis using Emotion-evoking Videos: Smile Expression	30
<i>K. Sato, H. Madokoro, M. Ito, S. Kadowaki</i>	
A Color Constancy Model for Non-uniform Illumination based on Correlation Matrix	40
<i>T. Toriu, M. Hironaga, H. Kamada, T. Zin</i>	
A Semantic Representation For Process-Oriented Knowledge Management To Support Production Planning Based On Function Block Domain Models And A Three-Level Mediator Architecture	47
<i>B. Gernhardt, F. Milner, T. Vogel, M. Hemmje, H. Brocks, L. Wang</i>	

ICCGI 3: MODELING

On The Idle Time Model In Computer Networks	60
<i>S. Minkevicius, E. Greicius</i>	
Application of a Models Integration Module to the Cutting Slabs Problem in a Continuous Casting Machine	65
<i>K. Aksyonov, A. Antonova, E. Smoliy, E. Sysoletin, A. Sheklein</i>	
An Idea On Infinite Horizon Decision Support For Rule-based Process Models	73
<i>M. Baumann, S. Jablonski</i>	
Integrating Crime Data by the Use of Generic Data Models	76
<i>D. Frosch-Wilke, L. Scheffler</i>	

ICCGI 4: SOFTWARE DEVELOPMENT AND DEPLOYMENT

Finding Potential Threats in Several Security Targets for Eliciting Security Requirements	83
<i>H. Kaiya, S. Ogata, S. Hayashi, M. Saeki, T. Okubo, N. Yoshioka, H. Washizaki, A. Hazeyama</i>	
Using ODA Method and FOIL Algorithm to Determine Organizational Agility Level	93
<i>G. Linkevics, U. Sukovskis</i>	
Optimising Development Process And Software Maturity Through eScience Partnerships	101
<i>D. Kranzlmuller, M. Heikkurinen</i>	

ICCGI 5: MOBILE AND INTELLIGENT TECHNIQUES

Health Professional Students' Acceptance of Mobile Information Communication Technologies for Learning - A Study Using the Unified Theory of Acceptance and Use of Technology (UTAUT)	108
<i>L. Liu, S. Esmail, E. Taylor, A. Rincon, A. Cruz</i>	
Web Service Selection Based on Integrated QoS Assesment	114
<i>O. Georgieva, D. Petrova-Antonova</i>	

Does the Integration of the Concept of Rapid Instructional Design in Project Management Approaches Support the Efficient Realisation of E-learning Projects?	119
<i>M. Kuciapski</i>	
On Behavioral Process Model Similarity Matching: A Centroid-Based Approach	125
<i>M. Baumann, S. Jablonski</i>	

ICCGI 6: OPTIMIZATION AND PERFORMANCE

Energy-Efficient Thread Migration via Dynamic Characterization of Resource Utilization	132
<i>C. Alvarado, D. Tamir, A. Qasem</i>	
Evaluating Neural Network Methods for PMC-based CPU Power Prediction	138
<i>M. Gutierrez, D. Tamir, A. Qasem</i>	
Evaluation of Heuristic Algorithms for Solving a Transportation Problem	144
<i>K. Rychard, I. Pozniak-Koszalka, L. Koszalka, A. Kasprzak, D. Zydek</i>	
Author Index	