ICONS 2016

The Eleventh International Conference on Systems

EMBEDDED 2016

International Symposium on Advances in Embedded Systems and Applications

February 21 - 25, 2016

Lisbon, Portugal

ICONS 2016 Editors

Gary Weckman, Ohio University, USA

Raimund Ege, Northern Illinois 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© (2016) by International Academy, Research, and Industry Association (IARIA)
Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2016)

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

Peer-Sourced Media Management for Augmented Reality 1
Raimund Ege

Complexity-based Thinking in Systems Intelligence for Systems Resilience 6
Roberto Legaspi and Hiroshi Maruyama

On the Riding Aids Recognition System for Horse Riding Simulators 14
Sangseung Kang, Kyekyung Kim, and Suyoung Chi

Safe Operation of Autonomous Machines 16
Raj Aggarwal and Haoyuan Lin

Can I Let You In? On Event-Centric Context-Aware Authorization 20
Philip Attfield, Paul Chenard, Marta Piekarska, Julia Narvaez, Mike Hendrick, and Simon Curry

Detection and Protection Against Unwanted Small UAVs 26
Igor Tchouchenkov, Florian Segor, Rainer Schonbein, Matthias Kollmann, Thomas Bierhoff, and Mark Herbold

Privacy Issue in Federated IDMS for Cloud Computing 30
Yeongkwun Kim, Injoo Kim, and Charlie Shim

Identifying Requirements for a Social Media-based Emergency Management System 32
Marko Jantti, Taina Kurki, and Laura Hokkanen

Performance Evaluation of the New TUAK Mobile Authentication Algorithm 38
Keith Mayes, Steve Babbage, and Alexander Maximov

Proving Transformation Correctness of Refactorings for Discrete and Continuous Simulink Models 45
Sebastian Schlesinger, Paula Herber, Thomas Gothel, and Sabine Glesner

Development of Real-time LCA System based on Automotive Radar 51
YoungSeok Jin, SangDong Kim, YoungHwan Ju, and JongHun Lee

The Anatomy of IT Service Incidents 55
Kari Saarelainen and Marko Jantti