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
# Table of Contents

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peer-Sourced Media Management for Augmented Reality</td>
<td>1</td>
</tr>
<tr>
<td>Raimund Ege</td>
<td></td>
</tr>
<tr>
<td>Complexity-based Thinking in Systems Intelligence for Systems Resilience</td>
<td>6</td>
</tr>
<tr>
<td>Roberto Legaspi and Hiroshi Maruyama</td>
<td></td>
</tr>
<tr>
<td>On the Riding Aids Recognition System for Horse Riding Simulators</td>
<td>14</td>
</tr>
<tr>
<td>Sangseung Kang, Kyekyung Kim, and Suyoung Chi</td>
<td></td>
</tr>
<tr>
<td>Safe Operation of Autonomous Machines</td>
<td>16</td>
</tr>
<tr>
<td>Raj Aggarwal and Hao Yuan Lin</td>
<td></td>
</tr>
<tr>
<td>Can I Let You In? On Event-Centric Context-Aware Authorization</td>
<td>20</td>
</tr>
<tr>
<td>Philip Attfield, Paul Chenard, Marta Piekarska, Julia Narvaez, Mike Hendrick, and Simon Curry</td>
<td></td>
</tr>
<tr>
<td>Detection and Protection Against Unwanted Small UAVs</td>
<td>26</td>
</tr>
<tr>
<td>Igor Tchouchenkov, Florian Segor, Rainer Schonbein, Matthias Kollmann, Thomas Bierhoff, and Mark Herbold</td>
<td></td>
</tr>
<tr>
<td>Privacy Issue in Federated IDMS for Cloud Computing</td>
<td>30</td>
</tr>
<tr>
<td>Yeongkwun Kim, Injoo Kim, and Charlie Shim</td>
<td></td>
</tr>
<tr>
<td>Identifying Requirements for a Social Media-based Emergency Management System</td>
<td>32</td>
</tr>
<tr>
<td>Marko Jantti, Taina Kurki, and Laura Hokkanen</td>
<td></td>
</tr>
<tr>
<td>Performance Evaluation of the New TUAK Mobile Authentication Algorithm</td>
<td>38</td>
</tr>
<tr>
<td>Keith Mayes, Steve Babbage, and Alexander Maximov</td>
<td></td>
</tr>
<tr>
<td>Proving Transformation Correctness of Refactorings for Discrete and Continuous Simulink Models</td>
<td>45</td>
</tr>
<tr>
<td>Sebastian Schlesinger, Paula Herber, Thomas Gothel, and Sabine Glesner</td>
<td></td>
</tr>
<tr>
<td>Development of Real-time LCA System based on Automotive Radar</td>
<td>51</td>
</tr>
<tr>
<td>Young Seok Jin, Sang Dong Kim, Young Hwan Ju, and Jong Hun Lee</td>
<td></td>
</tr>
<tr>
<td>The Anatomy of IT Service Incidents</td>
<td>55</td>
</tr>
<tr>
<td>Kari Saarelainen and Marko Jantti</td>
<td></td>
</tr>
</tbody>
</table>