



DEPEND 2015

The Eighth International Conference on Dependability

August 23 - 28, 2015

Venice, Italy

DEPEND 2015 Editors

Pascal Lorenz, University of Haute-Alsace, France

Petre Dini, Concordia University, Canada / China Space Agency, China

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

DEPEND 1: DEPENDABILITY FACETS

Measuring Application Server Availability on the NorNet Core	1
<i>S. Jakobsson</i>	
Beyond Integration Readiness Level (IRL): A Multi-Dimensional Framework to Facilitate the Integration of System of Systems	5
<i>C. Eder</i>	
On Handling Redundancy for Failure Log Analysis of Cluster Systems	7
<i>N. Gurumdimma, A. Jhumka, M. Liakata, E. Chuah, J. Browne</i>	
An Investigation of the Impact of Double Single Bit-Flip Errors on Program Executions	15
<i>F. Adamu-Fika, A. Jhumka</i>	

DEPEND 2: TRUST AND SYSTEM DEPENDABILITY

Efficient Simulation of Multiple Faults for Reliability Analysis of Analogue Circuits	23
<i>E. Weber, K. Echtele</i>	
Reducing the Communication Complexity of Agreement Protocols By Applying A New Signature Scheme Called SIGSEAM	29
<i>O. Bousbiba</i>	
Dependability of Active Emergency Response Systems	33
<i>J. Liu, E. Chu</i>	
Trust-based Service Management of Mobile Devices in Ad Hoc Networks	38
<i>Y. Wang, I. Chen, J. Cho</i>	
Author Index	