



ICDT 2017

The Twelfth International Conference on Digital Telecommunications

April 23 - 27, 2017

Venice, Italy

ICDT 2017 Editors

Constantin Paleologu, University Politehnica of Bucharest, Romania

Stan McClellan, Texas State University - San Marcos, 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© (2017) by International Academy, Research, and Industry Association (IARIA)
Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2017)

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: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

ICDT 1: DIGITAL COMMUNICATIONS

Optimisation of Heterogeneous Migration Paths to High Bandwidth Home Connections	1
<i>F. Phillipson</i>	
A Low-Overhead Framework for Inexpensive Embedded Control Systems	7
<i>I. Bertolotti, T. Hu, G. Kashani</i>	
5G Candidate Waveforms Comparison Regarding Time-Frequency Resources in the Nonlinear HPA	13
<i>H. Ryu</i>	

ICDT 2: SMARTSYS: ISSUES IN SMART SYSTEMS: GRIDS, HOMES, VEHICLES, CITIES AND THE IOT

An Identity-Based Encryption Scheme with Performance Optimization for Privacy Preservation in Smart Grid Communication	18
<i>U. Baloglu, Y. Demir</i>	
A Novel Smart Grid Device Location Mapping Technique	22
<i>J. Shima, S. McClellan, W. Peng</i>	
Using Smart Sensors to Monitor Concrete Infrastructure Assets for Useful Life Prediction Modelling	29
<i>P. Schemmel, J. Schemmel, E. Humphries</i>	
Author Index	