



# **INTERNET 2016**

The Eighth International Conference on Evolving Internet

November 13 - 17, 2016

Barcelona, Spain

## **INTERNET 2016 Editors**

Eugen Borcoci, University "Politehnica" Bucharest, Romania

Dirceu Cavendish, Kyushu Institute of Technology, Japan

**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© (4238) by International Academy, Research, and Industry Association (IARIA)  
Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (4238)

International Academy, Research, and Industry Association (IARIA)  
412 Derby Way  
Wilmington, DE 19810

Phone: (408) 893-6407  
Fax: (408) 527-6351

[petre@iaria.org](mailto: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](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

## Table of Contents

Protection of Personal Information in South Africa: A Framework for Biometric Data Collection Security <i>Phiwa Mzila</i>	1
Stepping Stone Detection under Timing Perturbations through the Uniform Distributed Random Delay <i>Koohong Kang, Jungtae Kim, and Ikkyun Kim</i>	7
On the Feasibility of Remote Attestation for IoT Devices <i>Yong-Hyuk Moon, Jeong-Nyeo Kim, and Yong-Sung Jeon</i>	12
Static Detection of Malware and Benign Executable Using Machine Learning Algorithm <i>Dong-Hee Kim, Sang-Uk Woo, Dong-Kyu Lee, and Tai-Myoung Chung</i>	14
Practical Approaches to the DRDoS Attack Detection based on Netflow Analysis <i>Jungtae Kim, Ik-Kyun Kim, and Koohong Kang</i>	20
HTTP Get Flooding Detection Technique Based on Netflow Information <i>Youngsoo Kim, Jungtae Kim, Ikkyun Kim, and Koohong Kang</i>	25
Detection of Tweets Where Birthdays are Revealed to Other People <i>Yasuhiko Watanabe, Naohiro Miyagi, Kenji Yasuda, Ryo Nishimura, and Yoshihiro Okada</i>	29
Study on Enhancement of Emulator to Incapacitate Analysis Evasion by Android Malicious Apps <i>Mijoo Kim, Woong Go, Tae Jin Lee, and Heung Youl Youm</i>	35
Wireless Sensor Network for Monitoring Water Factory <i>Seung-Jun Lee, Young Jin Kwon, and Do Hyun Kim</i>	39
Performance Characterization of Streaming Video over Multipath TCP <i>Ryota Matsufuji, Dirceu Cavendish, Kazumi Kumazoe, Daiki Nobayashi, Takeshi Ikenaga, and Yuji Oie</i>	41
Optimization of Multi-server Video Content Streaming in 5G Environment <i>Eugen Borcoci, Tudor Ambarus, Joachim Bruneau-Queyreix, Daniel Negru, and Jordi Mongay Batalla</i>	47