



# **INTERNET 2013**

The Fifth International Conference on Evolving Internet

July 21 - 26, 2013

Nice, France

## **INTERNET 2013 Editors**

Dirceu Cavendish, Kyushu Institute of Technology, Japan

Abdulrahman Yarali, Murray State University

**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© (2013) by International Academy, Research, and Industry Association (IARIA)  
Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2013)

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: 845-758-2634  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# TABLE OF CONTENTS

## INTERNET 1: ADVANCED INTERNET MECHANISMS

<b>Direct Routing for Mobile Multicasting in Distributed Mobility Management Domain</b> .....	1
<i>Yongwon Kim, Truong Xuan Do, Younghan Kim</i>	
<b>An Efficient Query Scheme for Semantic Web on Mobile P2P Network</b> .....	4
<i>Jun-Li Kuo, Chen-Hua Shih, Yaw-Chung Chen</i>	
<b>Generating Web Traffic based on User Behavioral Model</b> .....	10
<i>Guo-Feng Zhao, Min-Chang Yu, Chuan Xu, Hong Tang</i>	
<b>Performance Characterization of Streaming Video over TCP Variants</b> .....	16
<i>Dirceu Cavendish, Gaku Wataabe, Kazumi Kumazoe, Daiki Nobayashi, Takeshi Ikenaga, Yuji Oie</i>	

## INTERNET 2: INTERNET CHALLENGES

<b>A Novel Component Carrier Selection Algorithm for LTE-Advanced Heterogeneous Networks</b> .....	22
<i>Zanyu Chen, Tsungnan Lin</i>	
<b>A Novel Cloud Routing Protocol Based On Limited Deflection Mechanism (PRESENTATION)</b> .....	N/A
<i>Yanjun Li, Guoqing Zhang, Guoqiang Zhang</i>	
<b>An Analysis of Users in a Q&amp;A Site Submitted Many Answers Where First Polar Words Are Negative Words</b> .....	28
<i>Masashi Minamiguchi, Kenji Umemoto, Yasuhiko Watanabe, Ryo Nishimura, Yoshihiro Okada</i>	
<b>An Analysis of Unsounded Code Strings in Online Messages of a Q&amp;A Site and a Micro Blog</b> .....	32
<i>Kunihiro Nakajima, Subaru Nakayama, Yasuhiko Watanabe, Kenji Umemoto, Ryo Nishimura, Yoshihiro Okada</i>	
<b>A Collaboration Mechanism Between Wireless Sensor Network and a Cloud Through a Pub/Sub-based Middleware Service</b> .....	38
<i>Mohammad Hasmat Ullah, Sung-Soon Park, Jaechun No, Gyeong Hun Kim</i>	

## INTERNET 3: INTERNET SECURITY MECHANISMS, INTERNET PERFORMANCE

<b>A Network-based Solution to Kaminsky DNS Cache Poisoning Attacks</b> .....	43
<i>Tien-Hao Tsai, Yu-Sheng Su, Shih-Jen Chen, Yan-Ling Hwang, Fu-Hau Hsu, Min-Hao Wu</i>	
<b>Advanced OTP Authentication Protocol using PUFs</b> .....	48
<i>Jonghoon Lee, Jungsoo Park, Seungwook Jung, Souhwan Jung</i>	
<b>HMAC-based RFID Authentication Protocol with Minimal Retrieval at Server</b> .....	52
<i>Seung Wook Jung, Souhwan Jung</i>	
<b>Network Neutrality -- Measures and Measurements: A Survey</b> .....	56
<i>Clemens Cap, Andreas Dähn, Thomas Mundt</i>	
<b>Author Index</b>	