



VEHICULAR 2012

The First International Conference on Advances in Vehicular Systems,
Technologies and Applications

June 24-29, 2012

Venice, Italy

VEHICULAR 2012 Editors

Eugen Borcoci, University 'Politehnica' of Bucharest, Romania

Pascal Lorenz, University of Haute Alsace, France

Petre Dini, Concordia University, Canada / China Space Agency Center, 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© (2012) by International Academy, Research, and Industry Association (IARIA)
Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2012)

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

VEHICULAR 1: EVALUATION

Acoustic Sensor Network for Vehicle Traffic Monitoring	1
<i>Barbara Barbagli, Gianfranco Manes, Rodolfo Facchini, Antonio Manes</i>	
A Prototypical In-Car Entertainment Setup Using Software Defined Radio and Ethernet/IP-Based In-Vehicle Communication	7
<i>Lothar Stolz, Kay Weckemann, Hyung-Taek Lim, Walter Stechele</i>	
Model, Analysis, and Improvements for V2V Communication Based on 802.11p	11
<i>Tseesuren Batsuuri, Reinder J. Bril, Johan J. Lukkien</i>	

VEHICULAR 2: FUNDAMENTALS ON COMMUNICATION AND NETWORKING

Efficient Adaptive Equalizer Combined with LDPC Code for Vehicular Communications	18
<i>Do-Hoon Kim, Junyeong Bok, Heung-Gyoon Ryu</i>	
Intelligent Traffic Control Based on Multi-armed Bandit and Wireless Scheduling Techniques	23
<i>Chanwoo Park, Jungwoo Lee</i>	
Author Index	