

# **2009 IEEE 14th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks**

**(CAMAD)**

**Pisa, Italy  
12 June 2009**



**IEEE Catalog Number: CFP09CAM-PRT  
ISBN: 978-1-4244-3532-6**

**Copyright © 2009 by the Institute of Electrical and Electronic Engineers, Inc  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\*This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP09CAM-PRT
ISBN 13:	978-1-4244-3532-6
Library of Congress No.:	2008911106

**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  
E-mail: curran@proceedings.com

# TABLE OF CONTENTS

<b>Performance Analysis of Available Bandwidth Estimation Tools for Grid Networks .....</b>	<b>1</b>
<i>D. M. Batista, L. J. Chaves, N. L. S. da Fonseca, A. Ziviani</i>	
<b>The Simulation of Smart Antennas in Network Simulator-2 Using MATLAB.....</b>	<b>6</b>
<i>F. Babich, M. Commiso, A. Dorni, F. Barisi, A. Manià</i>	
<b>A Flexible Software Router Based Framework to Enable a DS-MPLS Transport Network.....</b>	<b>11</b>
<i>D. Adami, S. Giordano, M. Pagano, L. G. Zuliani</i>	
<b>Experimental Evaluation of Simulation Abstractions for Wireless Sensor Network MAC Protocols .....</b>	<b>16</b>
<i>G. P. Halkes, K. G. Langendoen</i>	
<b>Market-Based Resource Allocation for Service Overlay Networks.....</b>	<b>21</b>
<i>R. Egashira, T. Suda</i>	
<b>Cloud-based Performance Testing of Network Management Systems .....</b>	<b>26</b>
<i>Z. Ganon, I. E. Zilbershtein</i>	
<b>Basic Estimation of Markovian Pseudo Long-Range Dependent Processes .....</b>	<b>32</b>
<i>S. Robert</i>	
<b>Improving Federation Executions with Migrating HLA/RTI Central Runtime Components.....</b>	<b>37</b>
<i>R. Lent</i>	
<b>P2P Traffic Identification Based on the Signatures of Key Packets.....</b>	<b>42</b>
<i>P. Wang, X. Guan, T. Qin</i>	
<b>SSSim: a Simple and Scalable Simulator for P2P Streaming Systems.....</b>	<b>47</b>
<i>L. Abeni, C. Kiraly, R. L. Cigno</i>	
<b>A Distributed Algorithm for Resource Allocation for Delay Sensitive Services.....</b>	<b>53</b>
<i>M. G. Kallitsis, R. D. Callaway, M. Devetsikiotis, G. Michailidis</i>	
<b>Cellular-based Statistical Model for Mobile Dispersion.....</b>	<b>59</b>
<i>M. Abdulla, Y. R. Shayan</i>	
<b>Wireless Sensors for Instrumented Machines: Propagation Study for Stationary Industrial Environments .....</b>	<b>64</b>
<i>N. Assous, N. Lebedev, R. Daviot, N. Abouchi</i>	
<b>Critical Telecommunication Services Modeling in a Transmission System Power Operator .....</b>	<b>69</b>
<i>J. R. Feijoo, J. Cid-Sueiro, J. A. García-López, J. L. Rojo-Álvarez</i>	
<b>The PlaNet-PTN Module: a Single Layer Design Tool for Packet Transport Networks.....</b>	<b>74</b>
<i>M. Razo, A. Litovsky, W. Huang, A. Sivasankaran, L. Tang, L. Vardhan, P. Monti, M. Tacca, A. Fumagalli</i>	
<b>Author Index</b>	