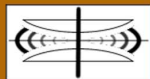


International Journal on Advances in Systems and Measurements



2009 vol. 2 nr. 2&3

The *International Journal on Advances in Systems and Measurements* is Published by IARIA.

ISSN: 1942-261x

journals site: <http://www.ariajournals.org>

contact: petre@aria.org

Responsibility for the contents rests upon the authors and not upon IARIA, nor on IARIA volunteers, staff, or contractors.

IARIA is the owner of the publication and of editorial aspects. IARIA reserves the right to update the content for quality improvements.

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy or print, providing the reference is mentioned and that the resulting material is made available at no cost.

Reference should mention:

International Journal on Advances in Systems and Measurements, issn 1942-261x
vol. 2, no. 2&3, year 2009, http://www.ariajournals.org/systems_and_measurements/

The copyright for each included paper belongs to the authors. Republishing of same material, by authors or persons or organizations, is not allowed. Reprint rights can be granted by IARIA or by the authors, and must include proper reference.

Reference to an article in the journal is as follows:

<Author list>, "<Article title>"
International Journal on Advances in Systems and Measurements, issn 1942-261x
vol. 2, no. 2&3, year 2009,<start page>:<end page> , http://www.ariajournals.org/systems_and_measurements/

IARIA journals are made available for free, proving the appropriate references are made when their content is used.

Sponsored by IARIA

www.aria.org

Copyright © 2009 IARIA

CONTENTS

Quantum Mechanics Needs Interpretation	131 - 141
Louis Marchildon, Département de physique, Université du Québec à Trois-Rivières, Canada	
Unified Vectorization of Numerical and Textual Data using Self-Organizing Map	142 - 155
Farid Bourennani, University of Ontario Institute of Technology, Canada	
Ken Q. Pu, University of Ontario Institute of Technology, Canada	
Ying Zhu, University of Ontario Institute of Technology, Canada	
Live Geography - Embedded Sensing for Standardised Urban Environmental Monitoring	156 - 167
Bernd Resch, Research Studios Austria, MIT SENSEable City Lab, USA	
Manfred Mittlboeck, Research Studios Austria, Austria	
Fabien Girardin, MIT SENSEable City Lab, USA / Universitat Pompeu Fabra, Spain	
Rex Britter, MIT SENSEable City Lab, USA	
Carlo Ratti, MIT SENSEable City Lab, USA	
Rewards and Risks in P2P Content Delivery	168 - 177
Raimund K. Ege, Northern Illinois University, Dept. of Computer Science, USA	
Li Yang, Dept. of Computer Science, University of Tennessee, USA	
Richard Whittaker, School of Comp. & Info Science, Florida International University, USA	
Improving the Quality of Control of Periodic Tasks Scheduled by FP with an Asynchronous Approach	178 - 191
P. Meumeu Yomsj, AOSTE Project-team, INRIA Paris-Rocquencourt, France	
L. George, AOSTE Project-team, INRIA Paris-Rocquencourt, France	
Y. Sorel, AOSTE Project-team, INRIA Paris-Rocquencourt, France	
D. de Rauglaudre, AOSTE Project-team, INRIA Paris-Rocquencourt, France	
Searching similar clusters of polyhedra in crystallographic databases	192 - 203
Hans-Joachim Klein, Institut für Informatik, Universität Kiel, Germany	
Christian Mennerich, Institut für Informatik, Universität Kiel, Germany	
Optimising the Quality of Experience during Channel Zapping	204 - 213
R.E. Kooij, TNO Information and Communication Technology / Delft University of Technology, The Netherlands	
V.B. Klos, TNO Information and Communication Technology / Delft University of Technology, The Netherlands	
B.E. Godana, Delft University of Technology, The Netherlands	
F.P. Nicolai, Delft University of Technology, The Netherlands	
O.K. Ahmed, TNO Information and Communication Technology, The Netherlands	

Localization in WiMAX Networks Depending on The Available RSS-based Measurements **214 - 223**

Mussa Bshara, Vrije Universiteit Brussel, Belgium
Leo Van Biesen, Vrije Universiteit Brussel, Belgium

K-Means on the Graphics Processor: Design And Experimental Analysis **224 - 235**

Mario Zechner, Know-Center, Austria
Michael Granitzer, Graz Technical University, Austria

A Virtualized Infrastructure for Automated BitTorrent Performance Testing and Evaluation **236 - 247**

Răzvan Deaconescu, University Politehnica of Bucharest, Computer Science Department, Romania
George Milescu, University Politehnica of Bucharest, Computer Science Department, Romania
Bogdan Aurelian, University Politehnica of Bucharest, Computer Science Department, Romania
Răzvan Rughiniș, University Politehnica of Bucharest, Computer Science Department, Romania
Nicolae Țăpuș, University Politehnica of Bucharest, Computer Science Department, Romania

The Influence of Group Members Arrangement on the Multicast Tree Cost **248 - 257**

Maciej Piechowiak, Kazimierz Wielki University, Poland
Maciej Stasiak, Poznań University of Technology, Poland
Piotr Zwierzykowski, Poznań University of Technology, Poland