International Journal on Advances in Networks and Services





















The International Journal on Advances in Networks and Services is published by IARIA.

ISSN: 1942-2644

journals site: http://www.iariajournals.org

contact: petre@iaria.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 Networks and Services, issn 1942-2644 vol. 3, no. 3 & 4, year 2010, http://www.iariajournals.org/networks_and_services/

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 Networks and Services, issn 1942-2644
vol. 3, no. 3 & 4, year 2010, <start page>:<end page> , http://www.iariajournals.org/networks_and_services/

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

Sponsored by IARIA www.iaria.org

International Journal on Advances in Networks and Services Volume 3, Numbers 3 & 4, 2010

CONTENTS	
Live Geography: Interoperable Geo-Sensor Webs Facilitating the Vision of Digital Earth Bernd Resch, Research Studios Austria and MIT, Austria	323 - 332
Thomas Blaschke, Research Studios Austria, Austria	
Manfred Mittlboeck, Research Studios Austria, Austria	
Call Admission Control Dimensioning for VoIP Traffic over Wireless Access Networks:	333 - 345
From Network to Application-specific Perspective	
Kiril Kassev, Technical University of Sofia, Bulgaria	
Yakim Mihov, Technical University of Sofia, Bulgaria	
Adriana Kalaydzhieva, Technical University of Sofia, Bulgaria	
Boris Tsankov, Technical University of Sofia, Bulgaria	
Model-based performance anticipation in multi-tier autonomic systems: methodology	346 - 360
and experiments	
Nabila Salmi, LISTIC, University of Savoie, Annecy, France	
Bruno Dillenseger, Orange Labs, Grenoble, France	
Ahmed Harbaoui, LIG, Grenoble, France	
Jean-Marc Vincent, LIG, Grenoble, France	
Layers Optimization Proposal in a Post-IP Network	361 - 369
João Henrique Pereira, University of São Paulo, Brazil	
Eduardo Santos, Federal University of Uberlândia, Brazil	
Fabíola Pereira, Federal University of Uberlândia, Brazil	
Pedro Rosa, Federal University of Uberlândia, Brazil	
Sérgio Kofuji, University of São Paulo, Brazil	
Delivery of CCNA as part of a Distance Degree Programme	370 - 380
Nicholas Moss, The Open University, UK	
Andrew Smith, The Open University, UK	
A Novel 3D-Based Network Simulation Platform for Wireless Indoor Networks	381 - 390
Mikko Asikainen, University of Eastern Finland, Finland	
Mauno Rönkkö, University of Eastern Finland, Finland	
Keijo Haataja, University of Eastern Finland, Finland	
Pekka Toivanen, University of Eastern Finland, Finland	
Multiple Criteria Routing Approaches in Mesh Overlay Networks	391 - 401
Lada-On Lertsuwanakul, FernUniversiät in Hagen, Germany	

IMS-centric Evaluation of IPv4/IPv6 Transition Methods in 3G UMTS Systems László Bokor, Budapest University of Technology and Economics, Hungary Zoltán Kanizsai, Budapest University of Technology and Economics, Hungary Gábor Jeney, Budapest University of Technology and Economics, Hungary	402 - 416
Simulation and Analysis of a QoS multipath Routing Protocol for Smart Electricity Networks Agustin Zaballos, University Ramon Llull, Spain Alex Vallejo, University Ramon Llull, Spain Guillermo Ravera, University Ramon Llull, Spain Josep Maria Selga, University Ramon Llull, Spain	417 - 429
Efficiency Benefits Through Load-Balancing with Link Reliability Based Routing in WSNs Cherif Diallo, Telecom SudParis, France Michel Marot, Telecom SudParis, France Monique Becker, Telecom SudParis, France	430 - 446
Evaluation of Distributed SOAP and RESTful Mobile Web Services Feda Alshahwan, University Of Surrey, UK Klaus Moessner, University Of Surrey, UK Francois Carrez, University Of Surrey, UK	447 - 461
Traffic Shaping via Congestion Signals Delegation Mina Guirguis, Texas State University - San Marcos, USA Jason Valdez, Texas State University - San Marcos, USA	462 - 472
A Further Look at the Distance-Availability Weighted Piece Selection Method: A BitTorrent Piece Selection Method for On-Demand Media Streaming Petter Sandvik, Åbo Akademi University & Turku Centre for Computer Science, Finland Mats Neovius, Åbo Akademi University & Turku Centre for Computer Science, Finland	473 - 483