

2010 18th IEEE International Conference on Network Protocols (ICNP 2010)

**Kyoto, Japan
5 – 8 October 2010**



**IEEE Catalog Number: CFP10065-PRT
ISBN: 978-1-4244-8644-1**

TABLE OF CONTENTS

Routing in Max-min Fair Networks: A Game Theoretic Approach	1
<i>Dejun Yang, Guoliang Xue, Xi Fang, Satyajayant Misra, Jin Zhang</i>	
Impairment-aware Path Selection and Regenerator Placement in Translucent Optical Networks	11
<i>Fernando Kuipers, Anteneh Beshir, Ariel Orda, Piet Van Mieghem</i>	
GreenTE: Power-Aware Traffic Engineering	21
<i>Migui Zhang, Cheng Yi, Bin Liu, Beichuan Zhang</i>	
Fast Routing Table Lookup Based on Deterministic Multi-hashing	31
<i>Zhuo Huang, David Lin, Jih-Kwon Peir, Shigang Chen, S. M. Iftekharul Alama</i>	

Practical Virtual Coordinates for Large Wireless Sensor Networks	41
<i>Jiangwei Zhou, Yu Chen, Ben Leong, Boqin Feng</i>	
Passive Interference Measurement in Wireless Sensor Networks	52
<i>Shucheng Liu, Guoliang Xing, Hongwei Zhang, Jianping Wang, Jun Huang, Mo Sha, Liusheng Huang</i>	
ETOC: Obtaining Robustness in Component-based Localization	62
<i>Xiaoping Wang, Yunhao Liu, Zheng Yang, Junliang Liu, Jun Luo</i>	

UVOC-MAC: A MAC Protocol for Outdoor Ultraviolet Networks	72
<i>Yiyang Li, Jianxia Ning, Zhengyuan Xu, Srikanth V. Krishnamurthy, Gang Chen</i>	
Granting Silence to Avoid Wireless Collisions	82
<i>Jung Il Choi, Mayank Jain, Maria A. Kazandjieva, Philip Levis</i>	
Network Coding Aware Rate Selection in Multi-Rate IEEE 802.11	92
<i>Raju Kumar, Srikar Tati, Felipe de Mello, Srikanth V. Krishnamurthy, Thomas La Porta</i>	

Neighbor-specific BGP: An algebraic exploration	103
<i>Alexander J. T. Gurney, Timothy G. Griffin</i>	
Assigning AS Relationships to Satisfy the Gao-Rexford Conditions	113
<i>Luca Cittadini, Giuseppe Di Battista, Thomas Erlebach, Maurizio Patrignani, Massimo Rimoncini</i>	
A new VPN routing approach for large scale networks	124
<i>Zied Ben Houidi, Mickael Meulle</i>	

TowerDefense: Deployment Strategies for Battling against IP Prefix Hijacking	134
<i>Tongqing Qiu, Lusheng Ji, Dan Pei, Jia Wang, Jun Xu</i>	
<hr/>	
Identifying Suspicious Activities through DNS Failure Graph Analysis	144
<i>Nan Jiang, Jin Cao, Yu Jin, Li (Erran) Li, Zhi-Li Zhang</i>	
Identification-Free Batch Authentication for RFID Tags	154
<i>Lei Yang, Jinsong Han, Yunhao Liu, Yong Qiu</i>	
Authentication and Authorization Protocol Security Property Analysis with Trace Inclusion Transformation and Online Minimization	164
<i>Yating Hsu, David Lee</i>	
Firewall Modules and Modular Firewalls	174
<i>Hrishikesh B Acharya, Aditya Joshi, Mohamed Gouda</i>	
<hr/>	
DOTS: A Propagation Delay-aware Opportunistic MAC Protocol for Underwater Sensor Networks	183
<i>Youngtae Noh, Paul Wang, Uichin Lee, Dustin Torres, Mario Gerla</i>	
On Exploiting Transient Contact Patterns for Data Forwarding in Delay Tolerant Networks . .	193
<i>Wei Gao, Guohong Cao</i>	
RELICS: In-network Realization of Incentives to Combat Selfishness in DTNs	203
<i>Md Yusuf Sarwar Udin, Brighten Godfrey, Tarek Abdelzaher</i>	
Optimal Cache-based Route Repair for Real Time Traffic	213
<i>Chuan Han, Yaling Yang, Yongxiang Peng</i>	
<hr/>	
CodePlay: Live Multimedia Streaming in VANETs using Symbol-Level Network Coding . . .	223
<i>Zhenyu Yang, Ming Li, Wenjing Lou</i>	
An Opportunistic Relay Protocol for Vehicular Road-side Access with Fading Channels . . .	233
<i>Joon Yoo, Brian Sung Chul Choi, Mario Gerla</i>	
Exploring the Hidden Connectivity in Urban Vehicular Networks	243
<i>Kebin Liu, Mo Li, Yunhao Liu</i>	
<hr/>	
Optimal Distributed P2P Streaming under Node Degree Bounds	253
<i>Shaoquan Zhang, Ziyu Shao, Minghua Chen</i>	
SocialSwarm: Exploiting Distance in Social Networks for Collaborative Flash File Distribution	263

Matthew Probst, Jun Cheol Park, Ravin Abraham, Sneha Kumar Kasera

Peer-Assisted VoD Prefetching in Double Auction Markets	275
<i>Yuan Feng, Baochun Li, Bo Li</i>	

TOP: Tail Optimization Protocol for Cellular Radio Resource Allocation	285
<i>Feng Qian, Zhaoguang Wang, Alexandre Gerber, Z. Morley Mao, Subhabrata Sen, Oliver Spatscheck</i>	

Scalable Video Multicast with Joint Layer Resource Allocation in Broadband Wireless Networks	295
<i>Peilong Li, Honghai Zhang, Baohua Zhao, Sampath Rangarajan</i>	

Beyond Co-existence: Exploiting WiFi White Space for ZigBee Performance Assurance	305
<i>Jun Huang, Guoliang Xing, Gang Zhou, Ruogu Zhou</i>	

Author Index	315
-------------------------------	-----