

National Doctoral Academic Forum on Information and Communications Technology 2013

IET Seminar Digests 2013/006

**Beijing, China
21 – 23 August 2013**

ISBN: 978-1-63266-026-8

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© (2013) by the Institution of Engineering and Technology
All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact the Institution of Engineering and Technology
at the address below.

Institution of Engineering and Technology
P. O. Box 96
Stevenage, Hertfordshire
U.K. SG1 2SD

Phone: 01-441-438-767-328-328
Fax: 01-441-438-767-328-375

www.theiet.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

Secure Cloud Storage Management Method Based On Time Stamp Authority	1
<i>W. Lin, Z. Lei, J. Liu, J. Yang, F. Liu, G. He</i>	
Experimental Demonstration Of Latency-Aware Software Defined Networking For Openflow-Based Intra-Datacenter Optical Interconnect Networks	<i>7</i>
<i>H. Yang, J. Zhang, Y. Zhao, Y. Ji, J. Han, Y. Lin, S. Qiu, Y. Lee</i>	
Structural Analysis Of Complex Networks From The Mobile Internet.....	<i>13</i>
<i>Y. Qiao, J. Yang, Z. Lei</i>	
Interference Mitigation Scheme For Cognitive Femtocell Networks	<i>20</i>
<i>H. Qing, Y. Liu, G. Xie, J. Gao</i>	
A Task Scheduling Algorithm Based On QoS And Complexity-Aware Optimization In Cloud Computing.....	<i>25</i>
<i>N. Wang, Y. Yang, K. Meng, Y. Chen, H. Ding</i>	
Robust Artificial Noise Aided Transmit Designs For Physical Layer Security	<i>33</i>
<i>Y. Tang, J. Wei, D. Ma, X. Zhang</i>	
Mobile Agent Routing Using Variable-Dimension Pso Algorithm Based On Chord-Length Parameterization	<i>41</i>
<i>C. Hu, B. Hu, Y. Xiong</i>	
The Simulation Method Of Correlated Weibull Radar Clutter Based On The Split Feasibility Problem.....	<i>49</i>
<i>P. Wang, H. Zhou</i>	
What Are The Influentials Talking About On Sina Weibo.....	<i>55</i>
<i>E. Xinhua, K. Xu, S. De, J. Tong</i>	
Modeling And Analysis On Mobile-To-Mobile Cascade Channel Of Amplify-And-Forward Two-Way Relay Networks	<i>60</i>
<i>H. Liu, L. Xiang, J. Yuan, L. Zheng</i>	
Block Data Transfer Protocol For Communication Over High-Speed Long-Distance Networks.....	<i>66</i>
<i>L. Zhang, Q. Shen, C. Wang, J. Liao</i>	
Alleviating Cross-Layer Conflict Between Overlay Routing And Traffic Engineering.....	<i>71</i>
<i>J. Gong, W. Li, L. Zhang, J. Liao</i>	
On The Research Of Optoelectronic Mixing Under Nonlinear Effect Of Avalanche Photodiodes.....	<i>76</i>
<i>Y. Song, X. Du, Z. Zeng</i>	
Conflict-Free MAC Protocol For Regional Underwater Observation Networks	<i>81</i>
<i>J. Zhang, G. Qiao, B. Kuang, C. Wang</i>	
PZMLIR : Pseudo-Zernike Moments And LSH-Based Image Retrieval In P2P Datacenter.....	<i>88</i>
<i>D. Yang, L. Zhang, J. Wang, J. Liao</i>	
Topology-Aware Virtual Network Embedding Through The Degree	<i>93</i>
<i>M. Feng, L. Zhang, X. Zhu, J. Wang, Q. Qi, J. Liao</i>	
Hybrid Field Physical Layer Network Coding In Multi-User Relay Network	<i>99</i>
<i>Y. Guo, J. Hao, G. Yue</i>	
Transmission Capacity Anticipation in Locality-aware Structured P2P Networks.....	<i>105</i>
<i>G. Luan, X. Zhu, W. Li, J. Liao</i>	
A Distance Aware Protocol For Underwater Acoustic Communication Networks	<i>110</i>
<i>J. Zhang, G. Qiao, C. Wang</i>	
Design Of Auto-Running Of Dbe In Deep Space TT&C Station	<i>116</i>
<i>Y. Jiao, H. Ma, Z. Chen, K. Jiang</i>	
On-Board Processing Adaptive Coding And Modulation For Regenerative Satellite Systems.....	<i>122</i>
<i>Y. Wang, H. Ji, Y. Li</i>	
Relaying SLT Codes based on Feedback for Communication over Multi-Hop Wireless Networks.....	<i>129</i>
<i>L. Zhang, Q. Shen, C. Wang, J. Liao</i>	
Multi-path Interests Routing Scheme for Multi-path Data Transfer in Content Centric Networking	<i>133</i>
<i>Y. Zhang, J. Liu, T. Huang, J. Chen, Y. Liu</i>	
A Novel Metric for Cache Size Allocation Scheme in Content Centric Networking	<i>139</i>
<i>X. Cui, J. Liu, T. Huang, J. Chen, Y. Liu</i>	
Polar Coded Modulation with Optimal Constellation Labeling	<i>145</i>
<i>K. Chen, K. Niu, J. Lin</i>	
Robust Secure Transmission For Gaussian Miso Wiretap Channels With Imperfect CSI.....	<i>150</i>
<i>Y. Tang, J. Wei, D. Ma, D. Wang</i>	

A Novel Multi-Relay Selection And Power Allocation Scheme For Cooperation In Cognitive Radio Ad Hoc Networks Based On Principle-Agent Game.....	156
<i>R. Wang, H. Ji, X. Li</i>	
Radio Admission Control Scheme for High-Speed Railway Scenario: an Optimal Accepted Service Number Approach.....	163
<i>Q. Xu, X. Li, H. Ji, L. Yao</i>	
A New Method Of Velocity Measurement Based On CRT Algorithm In Dual-Frequency Pulse Doppler Radar	169
<i>Y. Yao, L. Wu</i>	
Adaptive Energy-Efficient Resource Allocation For Cognitive Wireless Local Area Network Over Fiber.....	176
<i>B. Shan, X. Li, H. Ji, Y. Li</i>	
A Cross-Layer Bandwidth Request Algorithm Based On Chaotic Prediction Model For Broadband Multimedia Satellite Communications.....	181
<i>H. Wang, Q. Zhang, X. Xin, Y. Wang, Y. Tao, N. Liu, D. Chen</i>	
User Association Scheme In Heterogeneous Networks Considering Multiple Real-World Policies	188
<i>H. Zhang, H. Ji, Y. Wang</i>	
Connectivity In One-Dimensional Ad-Hoc Cognitive Radio Networks.....	195
<i>Y. Guo, Y. Ma, K. Niu, W. Xu, J. Lin</i>	
Author Index	