2012 Australasian Telecommunication Networks and Applications Conference

(ATNAC 2012)

Brisbane, Australia
7-9 November 2012

Australian Telecommunication Networks and Applications Conference (ATNAC 2012)

Mobile and Wireless Networks I

Wed 7th NOV 9-12.30 pm

Subcarrier Pairing and Relay Assignment with Improved User Fairness in a Multi-user Cooperative OFDM System

Gayan Munasinghe; Anagiyaddage D. S. Jayalath

A Reliable Real-Time Transport Protocol for Control Systems Over Wireless Networks
Xiaohan Shi; Guosong Tian; Yu-Chu Tian

IP Address Associated 4-N Intelligent MANET Routing Algorithm Utilising LTE Cellular Technology
Farukh Rahman; Mark A. Gregory

Ergodic Capacity of the Slotted Amplify and Forward Relay Channel with Finite Relays
Anushka Widanagamage; Anagiyaddage D. S. Jayalath; Yiyong Chin

Performance of Femtocell Access Point Deployments in User Hot-Spot Scenarios
Martin Taranetz; Markus Rupp

Towards an Energy-Efficient Framework for Location-Triggered Mobile Application
Yemao Man; Yan Liu

Towards a Combined Traffic Modeling framework for Access and Core Networks
Muhammad Asad Arfeen; Krzysztof Pawlikowski; Don McNickle; Andreas Willig

A Lightweight Algorithm for Fast IEEE 802.11 Handover
Przemysław Machań; Jozef Wozniak

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Mobile and Wireless Networks II
Wed 7th NOV 13:30 – 17:00

A VANET Based Intelligent Road Traffic Signalling System
Nazmus Shaker Nafi; Jamil Y Khan

Evaluating the Performance Impact of Protocol Parameters on Ad-Hoc Network Routing Protocols
Saaidal Azzuhri; Marius Portmann; Wee Lum Tan

Survey of Intercell Interference Mitigation Techniques in LTE Downlink Networks
Ameneh Daeinabi; Kumbesan Sandrasegaran; Xinning Zhu

Coffee/Tea Break 15:00 – 15:30

Fast and Reliable Target Base Station Selection Scheme for Mobile WiMAX Handover
Sayan Kumar Ray; Harsha R Sirisena; Devatanu Deka

Cross Layer Optimization of VANET Routing with Multi-Objective Decision Making
Ovitigalage Perera; Anagiyaddage D. S. Jayalath

Performance Evaluation of the Hostile Environment in Mobile Ad-hoc Network
Tamanna Afroze

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Emerging Networks I
Wed 9th Nov 2011, 16:00 – 17:00 hrs

*Efficient Route Update and Maintenance Processes for Multipath Routing in Large-Scale Industrial Wireless Sensor Networks : ¨, ***
Lapas Pradittasnee; Yu-Chu Tian; Anagiyaddage D. S. Jayalath

Practical Issues in Building an Embedded Sensor Network Application Using 802.15.4: Linking Hardware & MAC Protocol: **Mahir ¨- & Meghji; Daryoush Habibi; Iftekhar Ahmad**

Load Balancing Effect of Stochastic Routing in Wireless Sensor Networks Á́Ù J
Udara Sadathana Wijetunge; André Pollok; Sylvie Perreau

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Air Interfaces I
Wed 9th Nov 2011, 16:00 – 17:00 hrs

On Optimising the Capacity and Power Efficiency of a Wireless Network
Robert Hunjet; Andrew Coyle

Wireless Sensor Network Data Centric Storage Routing Using Castalia
Khandakar Ahmed; Mark A. Gregory

A New WSN Paradigm for Environmental Monitoring and Data Collection
Eric Dines

An XBee-Pro Based Energy Monitoring System
Xia Liu; Heping Chen; Mengliu Wang; Shanshan Chen

Energy-balance Routing for Wireless Sensor Networks with Scale-Free Characteristic
Xiaohui Li

Section-Based Digital Habitat Ecosystem Architecture for the Built-up Environments
Kamatchi Pillai; Horace King; Cagil Ozansoy

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Internet Technologies
Thursday 8th NOV 14:30 – 17:00 pm

QoE Estimation and Prediction Using Hidden Markov Models in Heterogeneous Access Networks ÁÍFI H
Karan Mitra ; Christer Ahlund; Arkady Zaslavsky

Template Based Composition for Requirements Based Network Stack ÁÍÍFI Ì
Abbas Siddiqui; Rahamatullah Khondoker; Paul Mueller

A Distributed and Conflict-Aware Measurement Method Based on Local Information Exchange in Overlay Networks **Hoang ¨%) (Dinh; Go Hasegawa; Murata Masayuki**

Coffee/Tea Break 3:30 – 4 pm

Towards an Enhanced Revenue Model for Virtual Networks Embedding Problem ÁÍÍFÎ €
Aun Haider; Harsha R Sirisena

An Adaptive Sender-Based VoIP Loss-Recovery Technique ÁÍFÎ Í
Sami S Alwakeel; Adel AlBahouth

Australian Telecommunication Networks and Applications Conference (ATNAC 2012)

Optical Networks and Air Interfaces
Friday 9th NOV 9-12 noon

A Rate-Adaptive Segmentation Algorithm for Integrated Hybrid Optical Networks ﴾﷼ï€
Raimena Veisllari; Steinar Bjornstad; Norvald Stol

How Good (Or Bad) is Shortest Path Routing in Layered Networks ''398
Ronald G. Addie; David Fatseas; Yu Peng; Fan Li; Moshe Zukerman

Linear Adaptive Channel Equalization for Multiuser MIMO-OFDM Systems ﴾﷼ì G
Lakmali Atapattu; Gayan Munasinghe; Karla Ziri-Castro; Hajime Suzuki; Anagiyaddage D. S. Jayalath

Coffee Brake 10-10.30 am

Applying Akaroa2 for Automated Simulation Length Control & On-Line Statistical Error Analysis of Results in OPNET ﴾﷼ì ï
Mofassir Haque; Krzysztof Pawlikowski; Don McNickle; Andreas Willig

Sensor Network Controlled Indoor Cognitive Radio Systems ﴾﷼JG
Meng-Jung Ho; Stevan Mirko Berber; Kevin W Sowerby

Access Network Energy Efficient Dynamic Power Scaling ﴾﷼Jì
Rakesh Pradhan, Mark Gregory

Australian Telecommunication Networks and Applications Conference (ATNAC 2012)

Optical Networks and Air Interfaces
Friday 9th NOV 12-2 pm

An Efficient Mapping Scheme for Locator / ID Separation Protocol ………GEH
Muhammad Tanzeel Murtaza Khan; Adeel Baig

Tracking Highly Available Peers in KAD ……GEJ
He Yan; Fangfang Liao; Lei Wang; Wenqing Cheng

Control Flow Management in The Hospitality Industry ……GFÍ
Alicia Revello; Abdel Obaid; Anne Amja