2014 IEEE Asia Pacific Conference on Wireless and Mobile

(APWiMob 2014)

Bali, Indonesia 28-30 August 2014



IEEE Catalog Number: CFP1475X-POD **ISBN:**

978-1-4799-3712-7

TABLE OF CONTENTS

No	Title	Page
1.	Split Ring EM Field Response Towards Modified Triangular and Tapered Edge Tip Within a WR159 Waveguide	1
2.	Performance of LCX-MIMO Antenna System	6
3.	Transmission Performance of OFDM with 1024-QAM in the Presence of EVM Degradation	12
4.	Compatibility Analysis of Wireless Avionics Intra Communications (WAIC) to Radio Altimeter At 4200- 4400 MHz	17
5.	Further Results on the Asymptotic Analysis of Digital Communications in Generalized Fading Channels	23
6.	Compact Double Meandered Line Inverted-F Antenna for Outdoor Parking Wireless Car Detector	30
7.	Handover Threshold Analysis Using Velocity for Proxy Mobile IPv6	36
8.	A Distributed Clustering Algorithm for Target Coverage in Directional Sensor Networks	42
9.	Extending ZigBee Tree Routing Protocol for Resource-Constrained Devices	48
10.	Project Management Inspired Framework for Action Selection in Wireless Sensor Networks	54
11.	WiFi-Assisted Human Activity Recognition	60
12.	StreetlightSim: A Simulation Environment to Evaluate Networked and Adaptive Street Lighting	66
13.	Interference Alignment with Efficient Dynamic Information Selection for LTE-A Uplink Coordinated Multipoint Systems	72
14.	Path Loss Prediction Model for a Sloped Area in Microcell Based on Scale Model and Real Environment Measurements	78
15.	High Efficient Impedance Matching Circuit of Power Amplifier Combined with Antenna	84
16.	Variable Step-Size LO-norm NLMS Algorithm for Sparse Channel Estimation	88
17.	Design for Multiband Monopole Antenna with Parasitic Elements for In-building	92

Mobile Communication

18.	A Generalized Approach of Performance Analyses for Cooperative Multi-Relaying System	96
19.	Novel Time Offset Pre-Processing and Interference Cancellation for Downlink OFDMA CoMP System	102
20.	Time Dispersion Analysis for UWB Channel in an Outdoor Environment	109
21.	Cooperative Analog and Digital (CANDI) Time Synchronization for Large Two- Dimension Multihop Networks	113
22.	A Survey of Rural Wireless Mesh Network (WMN) Deployments	119
23.	Improved DV-Hop Algorithm Through Anchor Position Re-estimation	126
24.	Traffic Offloading and Its Application in CRRM	132
25.	A Database Access Scheme for Elastic-Core Architecture	138
26.	Performance Measurement of Secure TFTP Protocol for Smart Embedded Devices	144
27.	Partial Area Under the Receiver Operating Characteristics of Energy Detectors in Fading Channels	150
28.	Design of Patch Antenna Using Metamaterial At GSM 1800 for RF Energy Scavenging	157
29.	Implementation of Experimental Equipment with Wideband Non-Contiguous OFDM	162
30.	Measurement and Analysis of an Outdoor MIMO-UWB Communication Channel	168
31.	Chaotic Interleaving Scheme for PAPR Reduction in Cognitive Radio Systems	172
32.	Iterative Receiver Design with CFO, SFO, Channel Estimation and Equalization for OFDM Systems	177
33.	Neighbor List Optimization for Real LTE Radio Networks	183
34.	Identification of Spectrum Holes Using ANN Model in TV Bands with AWGN	188
35.	Critical Security Review and Study of DDoS Attacks on LTE Mobile Network	194
36.	Message Scheduling for Tandem Multi-hop Wireless Networks	201
37.	Adaptive Advisory Speed Limit Dissemination Using Vehicular Communication	208
38.	Novel Visual Sensor Deployment Algorithm in PTZ Wireless Visual Sensor Networks	214
39.	A ZigBee Controlled Lighting System with Improved Resistance to Wireless Interference	219
40.	Design and Performance of a 24 GHz Band FM-CW Radar System and Its Application	226

APWiMob2014, Bali, 28-30 August 2014

41.	3D Gestures on 2D Screens for Mobile Games	232
42.	A Regulatory Framework for Implementation of Machine to Machine Services	238
43.	A Web-based Criminal Record System Using Mobile Device: A Case Study of Hat Yai Municipality	243
44.	An Approach to Real-Time Fault Detection in Health Monitoring of Offshore Wind- Farms	247
45.	Study of Relay Position in Two-Path Successive Relaying with Interference Cancellation	254
46.	Effects of Size Mismatch in Dual-function Near-Field Antennas	260
47.	Outage-Optimal Threshold-Based Opportunistic Cooperation in AF Relaying Systems with Staying Link Information	264
48.	Evaluation of Influence by Simultaneous Reception of Other Radio Systems in Wideband NC-OFDM	269
49.	Performance Analysis of a Tunable Cost Function Based WLAN Energy Efficient Packet Transmission Technique	275
50.	Intelligent Traffic Signal Control for Urban Central Using Vehicular Ad-hoc Network	281
51.	Performance Capacity of MIMO Heterogeneous LTE-Advanced Network	287
52.	Neural Network Based Switch Beam Smart Antenna	292
53.	An Improved Fast MIPv6 Using Dynamic Threshold Buffer Management	297
54.	A Driver-Centric Green Light Optimal Speed Advisory for Improving Road Traffic Congestion At Urban Intersections	304
55.	A Novel Event Transmission Protocol for Vehicular Ad Hoc Networks	310
56.	An Adaptive Overtaking Maneuver Assistant System Using VANET	316
57.	Segregating User Data by Tabs in Web Browsers	322
58.	Non Cooperative Cournot Economic Game Model for Heterogeneous Coexistence in TVWS	328
59.	Optimal Time Slicing for Mobile TV Services with Limited Channel Switching Delay	335
60.	Aging Method on Packet Scheduling Algorithm in WIMAX Network	340
61.	Ns-3 Based WiMAX Emulation System	346