

2013 IEEE Malaysia International Conference on Communications

(MICC 2013)

**Kuala Lumpur, Malaysia
26 – 28 November 2013**



**IEEE Catalog Number: CFP1327C-POD
ISBN: 978-1-4799-1531-6**

Table of Contents

No.	Paper ID	Title	Page Number
1	1569778917	Time-Varying UWB Channel Model for Mobile Robot-to-Robot Communication Systems	1
2	1569786343	Improving The Capacity of Channels For Multi-Path, Indoor, Ultra-Wideband Wireless Systems	7
3	1569789543	WSN Sensor Node Placement Approach using Territorial Predator Scent Marking Algorithm (TPSMA)	13
4	1569790021	Relay Selection Mechanism for Cooperative Communications using the Game-Theoretic Approach	18
5	1569793129	Performance Evaluation of Parallel TCP, and its Impact on Bandwidth utilization and Fairness in High-BDP Networks Based on Test-bed	23
6	1569793593	Energy-Efficient Subcarrier Optimization Scheme based on Particle Swarm for Green Radio Wireless Networks	29
7	1569794141	Mobile WiMAX Resource Allocation Algorithms Guidelines and Performance Assessment	34
8	1569794501	Improve Both Carrier to Interference Power Ratio and Phase Rotation Error using ICI Cancellation Scheme in OFDM	40
9	1569794807	Power Allocation for Two-Way Relay Channel in Wireless Bidirectional Networks	46
10	1569794903	Cognitive Radio Activities in Malaysia: Spectrum Utilization and Open Issues	51
11	1569795199	Predictive Location Aided Routing in Mobile Ad hoc Network	57
12	1569795303	Traffic modelling for Ethernet passive optical network using MATLAB	62
13	1569795831	Adaptive Energy Estimation and Hacking of Continuous Phase for CPM Modem Jamming	66
14	1569795927	Multi Premises Network Based on Coding Technique	72
15	1569795939	Format-Compliant Perceptual Video Encryption Based on Multiple Description Coding	75

No.	Paper ID	Title	Page Number
16	1569795941	Liquid Properties Inspired Non-cooperative Resource Allocation for Femtocell Networks	81
17	1569796039	Edge Energy Detection Using GNU Radio and USRP2: An Analysis Study	87
18	1569796547	A new Crosslayer Architecture for Service Differentiation in Sensor Wireless Networks	92
19	1569796777	Downlink Spectral Efficiency Evaluation with Carrier Aggregation in an LTE-Advanced System Employing Adaptive Modulation and Coding Schemes	98
20	1569796977	Cumulant Based Kolmogorov-Smirnov Spectrum Sensing	104
21	1569797009	Robust Collaborative Spectrum Sensing Over Non-Ideal Reporting Channels	110
22	1569797175	Survey of WSN Technology Based Reliable and Efficient Active RFID	116
23	1569797557	Spectrum Sensing Based on GoF Testing Techniques	122
24	1569797677	Mobile Data Collection in Wireless Sensor Network	128
25	1569797815	On the impact of Transport layer mechanisms on Routing Protocols in MANETS	B #5
26	1569797841	Multi Metric On-Demand Ad-hoc Routing Protocol for Wireless Smart Metering Deployment	140
27	1569797857	Performance Analysis of Two Component Carrier Selection Algorithms in the Downlink LTE-A	145
28	1569797893	Towards QoS-aware load distribution in heterogeneous networks	151
29	1569797903	FPGA Implementation of Low Complexity Crest Factor Reduction in OFDM systems	157
30	1569798023	Rain Analysis on Ka-Band for Terrestrial Link Point to Point Communication in Malaysia	162
31	1569798049	Performance of Frequency Recovery Algorithms for a Poly-Polarization Multiplexing Satellite System	166
32	1569798069	Opportunistic Spectrum Usage Scheduling: Time Series Approach	172

No.	Paper ID	Title	Page Number
33	1569798073	Indoor Infrared Ad-Hoc Networking	178
34	1569798121	Determination of Voice Traffic Busy Hour and Traffic Forecasting in Global System of Mobile Communication (GSM) in Nigeria	184
35	1569798221	Performance Analysis of λ -MRC Decode and Forward Cooperation in Nakagami-m Fading for Arbitrary Parameters	190
36	1569798261	Effects of SINR Estimation Errors on the DL Cell Throughput of an LTE System in Different Environments	196
37	1569798265	Limited Feedback MIMO Precoding via Alternating Multiple Differential Codebooks	202
38	1569798271	DSP Implementation of Digital Pre-Distortion in Wireless Communication Systems	207
39	1569798445	Tracking Moving Targets in Wireless Sensor Networks Using Extended Diffusion Strategies of Distributed Kalman Filter	213
40	1569798667	Friend Recommendation based on the Luscher Color Theory: Twitter Use Case	217
41	1569798811	Community-based Heuristic Routing Protocol for Disrupted Social Network	222
42	1569801441	Investigations on Multi-User MIMO System Based on THP under Frequency Selective Scenario	228
43	1569801619	Online Priority Aware Streaming Framework for Cognitive Radio Sensor Networks	234
44	1569801621	Estimating the Probability Density Function of the Detected Intensity of Incoherent Light Sources via Software Simulation	240
45	1569801889	TCP Path Sharing Detection	244
46	1569801949	The Triggering Mechanism of Mobile Server Allocation for Video Live-Casting Application	250
47	1569802359	Generalized SOCP Scheme for Designing All-Pass Digital Phase Circuits	255

No.	Paper ID	Title	Page Number
48	1569802961	Impact of access bandwidth on packet loss: A flow-level analysis	259
49	1569803187	Flexible Reconfigurable Filter Architecture for SDR Receiver	265
50	1569803877	Performance Evaluation of Node Mobility and Varying Group Density on Long Lifetime Multicast Routing Protocol in MANETs	271
51	1569804321	Dynamic Training Rate for Backpropagation Learning Algorithm	277
52	1569804353	A Survey for Effectiveness and Influence Rate of Cloud Computing Services at Malaysia	283
53	1569804617	Path Loss and Time Dispersion Analysis for Outdoor Roadway UWB Propagation Channel	287
54	1569804621	QoE-Oriented Cross-Layer Downlink Scheduling for Heterogeneous Traffics in LTE Networks	292
55	1569804635	Wireless Backhaul for Broadband Communication Over Sea	298
56	1569804703	Extended Multilevel Prime Codes for Optical-CDMA Networks with Algebraic Code Switching	304
57	1569805011	A New Hop-Count and Node-Degree Based Routing Protocol for Vehicular Ad-Hoc Networks (VANETs)	310
58	1569805067	Combined Discrete Cosine Transform and Two-Piecewise Companding Transform for PAPR Reduction in OFDM Signals	316
59	1569805359	Impulsive Noise Mitigation in Haar DWT Based OFDM systems	322
60	1569805455	"Performance Investigation of Opportunistic Routing using Log-normal and IEEE 802.15.6 CM 3A Path Loss Models in WBANs	325
61	1569805717	Interference Aware Channel Assignment (IACA) for Cognitive Wireless Mesh Networks	330
62	1569806159	Applying a Single Sign-On Algorithm Based on Cloud Computing Concepts for SaaS Applications	335

No.	Paper ID	Title	Page Number
63	1569806361	Investigation of Transmission performance for SAC-OCDMA system under Long Haul transmission distance based on single photodiode detection technique	340
64	1569807113	An Analytical Model for Handoff Management and Routing in CR Ad hoc networks	345
65	1569813199	On the PAPR Reduction Technique: WP-PTS Scheme with Embedding the Side Information Data	351
66	1569813795	Distributed Beamforming Scheme based on Sum Rate Maximization in Multiuser Systems	357
67	1569814291	Inter-cell Interference Coordination in Heterogeneous Network: A Qualitative and Quantitative Analysis	361
68	1569814739	GEGR: A Grid-Based Enabled Geographic Routing in Wireless Sensor Networks	367
69	1569814815	A Binary Grouping Approach for Image Encryption Based on Elliptic Curves over Prime Group Field	373
70	1569814885	HAPs Communication in Saudi Arabia under Dusty Weather Conditions	B #5
71	1569814909	Performance Analysis of the IEEE 802.15.7 CSMA/CA algorithm based on Discrete Time Markov Chain (DTMC)	385
72	1569814975	Industrial Wireless Sensor Networks in the Perspective of Diversity and Spectral Efficiency	390
73	1569814995	Cooperative Dynamic Spectrum Access for Small Cell Networks with Interference Mitigation and Qos Guarantee	396
74	1569815181	Evaluation of Energy Consumption in Multipath OLSR Routing in Smart City Applications	401
75	1569815433	Channel Selection in Cognitive Radio Networks: A New Dynamic Approach	407
76	1569815443	A New Tunnelled EAP based Authentication Method for WiMAX Networks	412
77	1569815529	A study in OCS millimeter-wave generation using two parallel DD-MZMs	418

No.	Paper ID	Title	Page Number
78	1569815579	Data Aggregation using RSSI for Multihop Wireless Sensor Networks: Energy and Delay Performance	422
79	1569815601	An adaptive routing metric for efficient route selection in Wireless mesh network	427
80	1569815725	Effects of Rate Control, Bridging and Antenna Orientation on an IEEE 802.11n Link Performance: An Experimental Analysis	432
81	1569815741	Azimuth DOA Estimation using an Oval Antenna Array	438
82	1569815881	Comparison of Heterogeneous Communication Systems for M2M Environment	443
83	1569815945	Approximate Linear Minimum Mean Square Error Estimation based on Channel Quality Indicator feedback in LTE Systems	446
84	1569815953	Evaluation of Direct Modulation and External Modulation in Temporal Phase Encoding System	452
85	1569815981	Impact of L2S Interface on System Level Evaluation for LTE System	456
86	1569816023	A Review on Scheduling Schemes of High Speed Wireless Campus Network for Interactive Multimedia Transmission	462
87	1569816111	Reader to Reader Anticollision Protocols in Dense and Passive RFID Environment	468
88	1569816197	A Novel Algorithm for Detecting Bacterial Leaf Scorch (BLS) of shade trees using image processing	474
89	1569816259	Dynamic Spectrum Access (DSA) for Multimedia Application	479
90	1569816271	Performance of Limited Feedback MU-MIMO in Distributed Antenna Systems with Different Scheduler	485
91	1569816311	Performance Analysis of Reactive Connectivity Restoration algorithms for Wireless Sensor and Actor Networks	490
92	1569816391	Modified Chaotic Tent map with improved robust region	496

No.	Paper ID	Title	Page Number
93	1569816413	Development of an Empirical Power model and Path Loss Investigations for Dense Urban region in Southern India	500
94	1569816487	A Dynamic MAC for Wireless Visual Sensor Networks	506
95	1569816555	Proposed Rain Fade Mitigation technique for Ka-band Space-Earth Links in Tropical Climate	511
96	1569816593	Development of Spectrum Monitoring Tool for Malaysia	517
97	1569816595	Interference Management for Irregular Cell Geometry Heterogeneous Networks	523
98	1569816979	Performance of Signal in Dispersion Managed Quasi-Linear High Bit Rate Optical Transmission System	528
99	1569817001	Impact of Massive MIMO Systems on Future M2M Communication	534
100	1569817015	Resource Allocation for Uplink M2M Communication in Multi-tier Network	538
101	1569817123	Microwave Point-to-Point Transmission Impairment over Malaysia Sea Tidal at 7 GHz	B #5
102	1569825499	Achieving a reliable V-2-V communication for Safety messages	550