2016 IEEE Asia Pacific Conference on Wireless and Mobile (APWiMob 2016)

Bandung, Indonesia 13 – 15 September 2016



IEEE Catalog Number: CI ISBN: 97

CFP1675X-POD 978-1-5090-2768-2

Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP1675X-POD

 ISBN (Print-On-Demand):
 978-1-5090-2768-2

 ISBN (Online):
 978-1-5090-2767-5

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) 758-2633 E-mail: curran@proceedi

E-mail: curran@proceedings.com Web: www.proceedings.com



TABLE OF CONTENTS

NO.	PAPER TITLES AND AUTHORS NAME	PAGE NO.
1	Optimal Full-Duplex Cooperative Spectrum Sensing in Asynchronous Cognitive Networks Teddy Febrianto; Mohammad Shikh-Bahaei	1
2	Finite-Length Analysis for Wireless Super-Dense Networks Exploiting Coded Random Access Over Rayleigh Fading Channels Khoirul Anwar; Rina Pudjiastuti	7
3	Design of a 5 Bit Digital Phase Shifter for 1.27 GHz Phased Array L-Band SAR Muhsin Muhsin; Bambang Nugroho; Heroe Wijanto	14
4	Design and Realization of A Triple Biquad Microstrip Antenna with Flat Reflector for Access Point on Site WLAN 2,4 Ghz Muhammad Aziz; Tengku Ahmad Riza; Yuyu Wahyu	18
5	Design, Implementation and Characterization of an RF Translator for TVWS Communication Patth Rick Ramirez; Joel Joseph Jr. S. Marciano	24
6	Diversity Maximal Combining for Transparent Protocol with Cooperative Network Coding (CNC) Muhammad Iqbal; Suwadi Suwadi; Iwan Wirawan; Rina Pudjiastuti	30
7	Improving LTE Throughput with Iterative Water-Filling Algorithm Dwi Samekto Bawono; Achmad Muayyadi; Ida Wahidah	35
8	Performance Analysis of Generalized Frequency Division Multiplexing in Various Pulse-shaping Filter for Next Generation Communication Systems Sumarsana Sumarsana; Achmad Muayyadi; Dharu Arseno	41
9	RouteBoxer Library for Google Android Platform Aryo Pinandito; Mochamad Chandra Saputra; Rizal Setya Perdana	46
10	Examine Influence Factors of Webinar Adoption (Case Study At ABC University) Muhammad Nicky Has Has, Nick; Indrawati Indrawati	52
11	Human Tracking in Certain Indoor and Outdoor Area by Combining the Use of RFID and GPS Daniel P Hutabarat; Robby Saleh; Santoso Budijono; Rinda Hedwig	59
12	Automatic Arowana Raiser Controller Using Mobile Application Based on Android Nurliani Ritonga; Agung Nugroho Jati; Rifki Wijaya	63
13	Performance Evaluation of HTTP-CoAP Proxy for Wireless Sensor and Actuator Networks Adika Sulaeman; Fransiskus Astha Ekadiyanto; Riri Fitri Sari	68
14	SDN Controller Placement Design for Large Scale Production Network Muhammad Effendy; Rendy Munadi; Sofia Hertiana	74





IEEE Asia Pacific Conference on Wireless and Mobile

15	Enhancing Spam Detection on Mobile Phone Short Message Service (SMS) Performance Using FP-Growth and Naive Bayes Classifier Shaufiah Shaufiah; Dea Delvia Arifin; Moch Arif Bijaksana	80
16	Performance Analysis of a Novel Decentralised MAC Protocol for Cognitive	
	Radio Networks	85
	Wajdi Alhakami; Ali Mansour; Ghazanfar A. Safdar	
17	User Cooperation in a Multi-Hop Network with Multi-Interface Devices for	
	Energy Efficiency	92
	Riyanto Jayadi; Yuan-Cheng Lai	
18	Analysis Effect of Discrete Wavelet Transform in Multi Carrier Code Division	
	Multiple Access	99
	Julika Givary; Rina Pudjiastuti; Ledya Novamizanti	
	Performance Comparison of Orthogonal Wavelet Division Multiplexing	
19	(OWDM) System Using Discrete Wavelet Transform and Wavelet Packet	104
	Transform on Rayleigh Channel	
	Yuyun Siti Rohmah; Dwi Andi Nurmantris; Irwan Dinata	
	MIMO MC-CDMA with Differential Unitary Space Time Frequency	1.5-
20	Modulation for Fast Fading Environment	109
	Dhoni Setiawan; Rina Pudjiastuti; Sugi Sugihartono	
	The Efficiency-Fairness Trade-Off of Social-Rank-based Forwarding in Social	
21	Opportunistic Networks	113
	Bambang Soelistijanto	
22	Optimization of Channel Allocation in Wireless Body Area Networks by	400
	Means of Reinforcement Learning	120
	Tauseef Ahmed; Faisal Ahmed; Yannick Le Moullec	
23	Homogeneous Interference Mitigation Techniques for Wireless Body Area	124
	Network Under Coexistence: A Survey	124
	Sajid Farid; Yousaf Zia; Arshad Farhad; Faisal Bashir Hussain	
24	Deploying Information Centric Networking in LTE Mobile Networks Prakash Suthar; Milan Stolic	130
25	Implementation of Stream Cipher Salsa20 Algorithm to Secure Voice on Push	
	to Talk Application	137
	Diyana Afdhila; Surya Michrandi Nasution; Fairuz Azmi	
		-



