

2019 International Conference on Wireless Networks and Mobile Communications (WINCOM 2019)

Fez, Morocco

29 October – 1 November 2019



IEEE Catalog Number: CFP19B95-POD
ISBN: 978-1-7281-2626-5

**Copyright © 2019 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 is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP19B95-POD
ISBN (Print-On-Demand):	978-1-7281-2626-5
ISBN (Online):	978-1-7281-2625-8

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@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Table of contents

1570562178	Spatial Efficiency Metric for Wireless Networks Based on Channel Resource Usage , <i>Michael Knitter; Armin Wulf</i>	P1
1570563324	Static Contention Window Method for Improved LTE-LAA/Wi-Fi Coexistence in Unlicensed Bands , <i>Moawiah Alhulayil; Miguel López-Benítez</i>	P7
1570563326	Methods for the Allocation of Almost Blank Subframes with Fixed Duty Cycle for Improved LTE-U/Wi-Fi Coexistence , <i>Moawiah Alhulayil; Miguel López-Benítez</i>	P13
1570563399	Di-Patch Antenna Array Comparison , <i>Hazim A A-Abdulsada; Sagar Sharma; Huma Razzaq</i>	P19
1570563574	Indoor Spectrum Occupancy in Morocco for Cognitive Radio applications: Measurements and Analysis , <i>Fatima Zahra El Bahi; Hicham Ghennioui; Mohcine Zouak</i>	P24
1570563622	Modelling, analysis and design of active queue management for isolation of denial of service attack in wired/wireless network , <i>Sadek Belamfedel Alaoui; El Houssaine Tissir; Noredidine Chaibi</i>	P30
1570563878	High Performance SDR for Monitoring System for GNSS Jamming Localization , <i>Filip Šturm; Tomáš Morong; Pavel Kovar; Pavel Purič</i>	P37
1570565117	Performance Analysis of OLSR Protocol under MPR Attack in Progressive Size Grid MANET , <i>Hajji Soualfi Abderrahim; Agoujil Said; Qaraai Youssef</i>	P42
1570565181	Activity Recognition from Smartphones Using Hybrid Classifier PCA-SVM-HMM , <i>M'Hamed Bilal Abidine; Belkacem Fergani; Ihssene Menhour</i> ...	P47
1570568605	A Joint Antenna and Path Selection for MIMO Cooperative Communication With Single Selective Decode and Forward Relay , <i>Mokhtar Bouteggui; Fatiha Merazka</i>	P52
1570569032	An Array of Leaky Wave Antennas for Indoor Smart Wireless Access Point Applications , <i>Youssef El Gholb; Alejandro Gil Martinez; Najiba El Amrani El Idrissi; Miguel Poveda-Garcia; Jose-Luis Gómez-Tornero</i>	P57
1570569817	Toward a Dynamic QoS Management over LTE/EPC Network using ANFIS , <i>Ouafae Kasmi; Amine Baina; Mostafa Bellaflkih</i>	P61
1570569843	Machine Learning based System for Prediction of Breast Cancer Severity , <i>Sara Laghmati; Amal Tmiri; Bouchaib Cherradi</i>	P67
1570569877	Multi-policy Aware Offloading with Per-task Delay for Mobile Edge Computing Networks , <i>Tarik Chanyour; Youssef Hmimz; Mohamed El Ghmary; Mohammed Ouçamah Cherkaoui Malki</i>	P72
1570569896	Performance analysis of the beacon-enabled operation of IEEE 802.15.4 under WBANs , <i>Nabila Azdad; Mohamed Elboukhari</i>	P78
1570570473	Improving Latency And Bandwidth For Intelligent Transport Services Exploiting Caching Technology , <i>Bouchaib Assila, Mr; Abdellatif Kobbane</i> ...	P83
1570570601	A Metamaterial Antenna Based Near Zero Refractive Index(NZIM) Unit-Cell as a Superstrate for Directivity and Gain enhancement , <i>Mourad Elhabchi; Mohamed Nabil Srfi; Raja Touahni</i>	P89
1570570698	A New Design of RFID Tag for Vehicles Localisation Applications , <i>Redouane Jouali; Mohssin Aoutoul; Hassan Ouahmane; Youssef Errami; Abdellatif Obbadi; Abderrahim Haddad; Fadwa El Moukhtafi; Anas Had</i>	P94

1570571113	A Time Frequency Tensor Framework for DOA Estimation: Application to MIMO Systems , <i>Lamiae Hachad; Fatiha Mrabti; Hicham Ghennioui</i>	P97
1570571249	Bio-inspired energy efficient clustering approach for wireless sensor networks , <i>Israel Edem Agbehadji; Richard C Millham; Jason J. Jung; Khac-Hoi Nam Bui; Simon Fong; Abayomi Abdultaofeek; Samuel O Frimpong</i>	P103
1570572595	Unsupervised Brain Tumor Segmentation from Magnetic Resonance Images , <i>Chaimae Ouchicha; Mohammed Meknassi; Ouafae Ammor</i>	P111
1570572809	Real Time Traffic Light Detection and Classification using Deep Learning , <i>Zakaria Ennahhal; Ismail Berrada; Khalid Fardousse</i>	P116
1570578906	Model to Improve the Forecast of the Content Caching based Time-Series Analysis at the Small Base Station , <i>Khalil Ibrahimi; Ouafa Ould Cherif Ouafa; Mohammed El Koutbi; Imane Rouam</i>	P123
1570579433	Short term solar irradiance forecasting using artificial neural network for a semi-arid climate in Morocco , <i>Omaima El Alani; Hicham Ghennioui</i>	P129
1570579512	Archimate based Security Risk Assessment as a service: preventing and responding to the cloud of things' risks , <i>Wissam Abbass; Amine Baina; Bellafkih Mostafa</i>	P136
1570579799	Three branch microwave channelized active bandpass filter , <i>Mariem Jarjar; El ouazzani Nabih</i>	P142
1570580407	Analyzing Friendship's Social Networks Using the Topological Indices , <i>Charifa Laghrifat; Ilham Mounir; Mohamed Essalih</i>	P147
1570580412	Compact Size T-Shaped Patch Antenna for E-Band Applications , <i>Abir Zaidi; Wahaj Abbas Awan; Niamat Hussain; Abdelhakim Ballouk; Abdelmajid Badri; Abdennaceur Baghdad</i>	P152
1570580575	Proposed Solutions for Smart Traffic Lights using Machine Learning and Internet of Thing , <i>Adnane Addaim; Imad El Hassak</i>	P155
1570581153	Proposed Architecture of e-health IOT , <i>Imam Alihamidi; Abdessalam Ait Madi; Adnane Addaim</i>	P161
1570581271	An optical qualification technique for solar parabolic trough concentrators using the distant observer method and image processing algorithms , <i>Massaab El Ydrissi; Hicham Ghennioui; Farid Abdi; El Ghali Bennouna</i>	P168
1570581323	Neural Network Adaptive Control of Dissolved Oxygen for an Activated Sludge process , <i>Drioui Nissrine; El alami Jamila; El mazoudi El houssine</i>	P174
1570581376	A fog-driven IoT e-Health framework to monitor and control Asthma Exacerbation , <i>Anas Maach; El alami Jamila; El mazoudi El houssine</i>	P182
1570582048	Mobile Applications: A Bayesian Game Approach to Optimize Transmission Strategies , <i>Mohamed El Amrani; Hamid Garmani; Driss Ait Omar; Baslam Mohamed; Brahim Minaoui</i>	P188
1570582408	Predicting Driver Lane Change Maneuvers Using Driver's Face , <i>Abdelatif Moussaid; Ismail Berrada; Mohamed El Kamili; Khalid Fardousse</i>	P195
1570582708	Trust Based Security in Battlefield-of-Things , <i>Manisha Jitendra Nene; S Sundeep Desai</i>	P202
1570583880	Ethereum for Secure Authentication of IoT using Pre-Shared Keys (PSKs) , <i>Mohammed Ibrahim El-hajj; Ahmad Fadlallah; Maroun Chamoun; Ahmed Serhrouchni</i>	P209
1570584333	New PAPR reduction technique combining the Tone Reservation based on PCG algorithm with Clipping , <i>Hicham Ghennioui; Hajar Abdelali; Mohamed El Kamili; Mohamed Firdaoussi</i>	P216
1570588080	Improved security intrusion detection using intelligent techniques , <i>Cherkaoui Leghris; Ouafae El aeraj; Eric Renault</i>	P222

1570589326	Fusion of Convolutional Neural Network and Statistical Features for Texture classification , Mourad Jbene; Ahmed El Maliani drissi; Mohammed El Hassouni	P227
1570593537	Optimization of the Radar Ambiguity Function-Application to Chaotic Sequences , Zouhair Ben Jemaa; Sylvie Marcos; Safya Belghith	P231
1570596231	An Auction-Based Resource Leasing Mechanism for Under-Utilized Spectrum , Haya Shajaiah; Ahmed Abdelhadi; Driss Benhaddou; Charles Clancy	P237
1570596284	DFT-Spread Spectrally Efficient Non-Orthogonal FDMA , Izzat Darwazeh; Tongyang Xu	P243
1570597526	Fast-OFDM Transmission with Duobinary 3-PSK Modulation , Izzat Darwazeh; Tongyang Xu; Liyan Zhu	P248
1570598949	klm-PPSA: klm-based profiling and preventing security attacks for cloud environments , Nahid Eddermoug; Abdeljebar Mansour; Mohamed Sadik; Essaid Sabir; Mohamed Azmi	P254
1570599518	A New Approach of Data Pre-processing for Data Compression in Smart Grids , Yifei Sun; Hang Zou; Samson E Lasaulce; Michel Kieffer; Lucas Saludjian	P261
1570599605	Deep Learning Approaches for Electrical Vehicular Mobility Management , Dridi Aicha; Chérifa Boucetta; Abubakar Yau Alhassan; Hassine Moun gla; Hossam Afifi; Houda Labiod	P267