

# MOHAMED HADI HABAEBI



- KULLIYAH OF ENGINEERING
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## ACADEMIC QUALIFICATION

- Ph.D in Computer & Communication Systems Engineering
- Master of Electrical Engineering
- Bachelor of Communication Engineering

## TEACHING RESPONSIBILITIES

ADVANCED COMPUTER NETWORKING	2020/2021
COMMUNICATION ENGINEERING LAB III	2012/2013 2013/2014
COMMUNICATIONS ENGINEERING LAB I	2013/2014 2014/2015 2015/2016 2016/2017 2017/2018
COMPUTER COMMUNICATIONS AND NETWORKS	2014/2015 2018/2019 2019/2020
DATA COMMUNICATIONS AND NETWORKING	2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
DIGITAL COMMUNICATION	2014/2015
DIGITAL COMMUNICATIONS	2014/2015 2017/2018 2018/2019 2019/2020 2020/2021
ELECTRIC CIRCUITS	2011/2012
ENGINEERING LAB I	2011/2012
FINAL YEAR PROJECT I	2019/2020 2020/2021
FINAL YEAR PROJECT II	2018/2019
FUNDAMENTAL OF COMMUNICATION ENGINEERING	2013/2014 2014/2015
MOBILE COMMUNICATIONS	2016/2017 2017/2018
OPERATING SYSTEMS	2011/2012 2012/2013
PERFORMANCE MODELLING OF COMPUTER SYSTEM	2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021

PERFORMANCE MODELLING OF COMPUTER SYSTEMS

2012/2013 2013/2014 2015/2016 2016/2017

PROJECT I

2018/2019

## RESEARCH PROJECTS

### In Progress

- 2019 - Present** - IoT-Blockchain based Renewable Energy Certificate (REC) trading platform for autonomic digital marketplace
- 2018 - Present** - Modelling of Wireless Distributed Computing and Energy Harvesting Mechanisms for CR Technology
- 2018 - Present** - Modelling of Wireless Distributed Computing and Energy Harvesting Mechanisms for CR Technology
- 2018 - Present** - Novel modulation modeling of visible light communication system with electron radiation
- 2016 - Present** - Modeling of Multiband / Wideband Stack Series Array Antenna Configuration for 5G Application
- 2016 - Present** - Development, Testing and Field Evaluation of Physical Intrusion Detection Alarm-cum-Office/Home Automation System Utilizing Radio Frequency Signals Energy for Indoor Environment Use
- Unknown - Present** - Modelling of Wireless Distributed Computing and Energy Harvesting Mechanisms for CR Technology

### Completed

- 2016 - 2019** - Modeling of Multiband / Wideband Stack Series Array Antenna Configuration for 5G Application
- 2016 - 2019** - Real-Time Data Retrieval and Sorting System for the IoT
- 2016 - 2019** - Development, Testing and Field Evaluation of Physical Intrusion Detection Alarm-cum-Office/Home Automation System Utilizing Radio Frequency Signals Energy for Indoor Environment Use
- 2014 - 2017** - Analysis and Synthesis of Cryptographic Boolean Functions in Haar Domain
- 2013 - 2016** - Discovering Colossal Closed Itemsets from High Dimensional Datasets
- 2013 - 2017** - New Algorithm for Realtime OLAP Scheme over Multicore Distributed Processing to Serve Warehouse Data Mining
- 2013 - 2016** - Hierarchical Horizontally Cross-tiered Scheduling for Downlink in LTE-Advanced Mobile Telecommunication System
- 2013 - 2016** - Development of Novel Wireless Sensor Networks (WSNs) for Smart Grid Low Voltage Distribution Automation System (LVDAS)

- 2013 - 2016** Development of Experimental Testbed for Energy Efficient Healthnets in Zigbee-Based Wireless Sensor Networks
- 2013 - 2015** A Secure Scheme for User Authentication and Authorization Using OTP in Android Mobile Environment
- 2013 - 2015** Cross Layer and Co-Layer Management of Femtocells Interference
- 2013 - 2016** Novel Distributed Cooperative Dynamic Spectrum Access Mechanisms for Cognitive Mesh Networks
- 2012 - 2013** Fine-Grained Modelling of Interference in Femtocell 4G Wireless Networks
- 2012 - 2013** Investigation of the Effect of Electromagnetic Radiation on Human from Wireless Communication Systems Frequencies 2-2.5GHz
- 2011 - 2013** RU 2011: Testbed For Transmit Power Control in Zigbee-based WSN Healthnets
- 2011 - 2015** Ensemble Mobile Platform for Innovation Digital Economy Environment - Enhancing Protocol for Peer to Peer and Peer to Multipoint Communications

## PUBLICATIONS

### Article

- 2021** [Effects of humidity on sand and dust storm attenuation predictions based on 14 GHz measurement.](#) TELKOMNIKA Telecommunication, Computing, Electronics and Control , 19 (2) pp.364-371
- 2021** [Anomaly detection in ICS datasets with machine learning algorithms.](#) Computer Systems Science and Engineering , 37 (1) pp.33-46
- 2021** [Design of UWB microstrip patch antenna with variable band notched characteristics.](#) TELKOMNIKA Telecommunication, Computing, Electronics and Control , 19 (2) pp.357-363
- 2021** [Suppressing voltage spikes of MOSFET in H-Bridge inverter circuit.](#) Electronics , 10 (4) pp.1-17
- 2020** [POMDP formulation for energy harvesting network with wireless distributed computing.](#) HAL archives-ouvertes pp.1-6
- 2020** [A review on application of blockchain in 5G and beyond networks: taxonomy, field-trials, challenges and opportunities.](#) IEEE Access Journal , 8 pp.115876-115904
- 2020** [Performance evaluation of lightweight Crypto functions for Internet of things applications.](#) Journal of Advanced Research in Dynamical & Control Systems , 12 (2) pp.800-808
- 2020** [Design an ultra-wideband modified wilkinson power divider fed-by balanced antipodal vivaldi antenna array for imaging applications.](#) Journal of Advanced Manufacturing Technology , 14 (1)

- 2020** [A real-time mobile notification system for inventory stock out detection using SIFT and RANSAC.](#) International Journal of Interactive Mobile Technologies (ijIM) , 14 (5) pp.32-46
- 2020** [Mobile drone localization in indoor environment based on passive RFID.](#) International Journal of Interactive Mobile Technologies (ijIM) , 14 (5) pp.1-12
- 2020** [Performance evaluation of 5G OFDM Filter Solutions with multiuser superposition transmission.](#) Technical Reports of Kansai University (TRKU) , 62 (9) pp.5515-5529
- 2020** [A novel PTS based PAPR reduction scheme for FBMC-OQAM system without extra bits transmission of SI.](#) International Journal of Electronics pp.1-28
- 2020** [Analysis of rain fade slope for terrestrial links.](#) Indonesian Journal of Electrical Engineering and Computer Science , 18 (2) pp.896-902
- 2020** [Availability modeling of terrestrial hybrid FSO/RF based on weather statistics from tropical region.](#) IET Communications , Ahead of print pp.1937-1941
- 2020** [An adaptive diffserv approach to support QOS in network mobility nemo environment.](#) International Journal of Computer Networks & Communications (IJCNC) , 12 (2) pp.23-48
- 2020** [Rain fade slope model for terrestrial microwave links.](#) International Journal of Microwave and Wireless Technologies , 12 (5) pp.372-379
- 2020** [A systematic review of breast cancer detection using thermography and neural networks.](#) IEEE Access , 8 pp.208922-208937
- 2019** [A 28 GHz MIMO antenna array design for 5G applications.](#) Journal of Advanced Research in Dynamical and Control Systems , 11 (1) pp.197-203
- 2019** [Cyber attacks analysis and mitigation with machine learning techniques in ICS SCADA systems.](#) Journal of Advanced Research in Dynamical and Control Systems , 11 (1) pp.180-188
- 2019** [A planar parallel slotted circular disk passive UWB-RFID tag.](#) ARPN Journal of Engineering and Applied Sciences , 14 (6) pp.1149-1154
- 2019** [Assessment of road traffic noise: a case study in Monastir City.](#) Jordan Journal of Mechanical and Industrial Engineering , 13 (3) pp.149-154
- 2019** [Mitigation of multipath fading in indoor radiometric fingerprinting systems.](#) Computers and Electrical Engineering , 73 (1) pp.46-57
- 2019** [IoT Light Weight \(LWT\) crypto functions.](#) International Journal of Interactive Mobile Technologies (ijIM) , 13 (4) pp.117-128
- 2019** [Gateway sink placement for sensor node grid distribution in LoRa smart city networks.](#) Indonesian Journal of Electrical Engineering and Computer Science , 14 (2) pp.834-842
- 2019** [Capacitive electrode sensor implanted on a printed circuit board designed for continuous water level measurement.](#) Bulletin of Electrical Engineering and Informatics , 8 (2) pp.452-461

- 2019** [Intelligent flood disaster warning on the fly: developing IoT-based management platform and using 2-class neural network to predict flood status.](#) Bulletin of Electrical Engineering and Informatics , 8 (2) pp.708-719
- 2019** [Accelerometer based structural health monitoring system on the go: Developing monitoring systems with NI LabVIEW.](#) International Journal of Online and Biomedical Engineering (ijOE) , 15 (7) pp.32-51
- 2019** [Intelligent flood disaster warning on the fly: developing IoT-based management platform and using 2-class neural network to predict flood status.](#) Bulletin of Electrical Engineering and Informatics , 8 (2) pp.706-717
- 2019** [A novel optimization harmonic elimination technique for cascaded multilevel inverter.](#) Bulletin of Electrical Engineering and Informatics , 8 (2) pp.405-413
- 2019** [The effects of rain fade on millimetre wave channel in tropical climate.](#) Bulletin of Electrical Engineering and Informatics , 8 (2) pp.653-664
- 2019** [Design and parametric evaluation of UWB antenna for array arrangement.](#) Bulletin of Electrical Engineering and Informatics , 8 (2) pp.644-652
- 2019** [Application of mobile cloud computing in emergency health care.](#) Bulletin of Electrical Engineering and Informatics , 8 (3) pp.1088-1095
- 2019** [Smartphone aided real-time blood vein detection system.](#) Bulletin of Electrical Engineering and Informatics (BEEI) , 8 (3) pp.1096-1107
- 2019** [Design, simulation and practical experimentation of miniaturized turbine flow sensor for flow meter assessment.](#) Bulletin of Electrical Engineering and Informatics (BEEI) , 8 (3) pp.777-788
- 2019** [Dermatological diagnosis by mobile application.](#) Bulletin of Electrical Engineering and Informatics (BEEI) , 8 (3) pp.847-854
- 2019** [Pre-trained based CNN model to identify finger vein.](#) Bulletin of Electrical Engineering and Informatics (BEEI) , 8 (3) pp.855-862
- 2019** [On the analysis of received signal strength indicator from ESP8266.](#) Bulletin of Electrical Engineering and Informatics (BEEI) , 8 (3) pp.933-940
- 2019** [Long range channel characteristics through foliage.](#) Bulletin of Electrical Engineering and Informatics (BEEI) , 8 (3) pp.941-950
- 2019** [New tag estimator for the dynamic framed slotted Aloha anti-collision algorithm in RFID systems.](#) International Journal of Computer Science, Communication & Information Technology (CSCIT) , 8 (1) pp.1-5
- 2019** [Design and implementation of visible light communication based toys.](#) Bulletin of Electrical Engineering and Informatics (BEEI) , 8 (3) pp.960-969
- 2019** [Analysis of different digital filters for received signal strength indicator.](#) Bulletin of Electrical Engineering and Informatics (BEEI) , 8 (3) pp.970-977
- 2019** [Multiband antenna using stacked series array for Ka-Band application.](#) Bulletin of Electrical Engineering and Informatics (BEEI) , 8 (3) pp.1004-1013
- 2019** [Analysis of airborne dust effects on terrestrial microwave propagation in arid area.](#) Bulletin of Electrical Engineering and Informatics (BEEI) , 8 (3) pp.1014-1021

- 2019** [Energy harvesting network with wireless distributed computing.](#) IEEE Systems Journal , early access pp.1-12
- 2019** [New hybrid tag estimator for the dynamic framed slotted aloha in RFID systems.](#) Proceedings of Science and Engineering (PET) , 46 pp.75-78
- 2019** [Empirical evaluation of LORA link performance for Smart City/Smart Campus environments.](#) International Journal of Innovative Technology and Exploring Engineering (IJITEE) , 8 (8S) pp.50-58
- 2019** [Follow me travel bag.](#) International Journal of Innovative Technology and Exploring Engineering (IJITEE) , 8 (8S) pp.59-64
- 2019** [An improvement approach for reducing transmission power in wireless sensor networks.](#) International Journal of Innovative Technology and Exploring Engineering (IJITEE) , 8 (8S) pp.65-75
- 2019** [Design and implementation of tri-band microstrip antenna.](#) International Journal of Microwave and Optical Technology , 14 (6) pp.409-414
- 2019** [A Comparative study of total harmonics distortion between Spwm and She-Pwm modulation techniques for inverters..](#) Journal of Electrical Power and Electronics System , 1 (1) pp.1-5
- 2018** [An analysis of a flexible dry surface electrodes.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.74-83
- 2018** [Building textual OLAP cubes using real-time intelligent heterogeneous approach.](#) International Journal of Intelligent Information Technologies , 14 (3) pp.83-108
- 2018** [Comparison of selective harmonic elimination and SPWM techniques for unipolar inverters.](#) International Journal of Engineering & Technology , 7 (4) pp.6626-6630
- 2018** [Maximum-largest weighted delay first algorithm for heterogeneous traffic in 4G networks.](#) Indonesian Journal of Electrical Engineering and Informatics (IJEEI) , 6 (2) pp.190-199
- 2018** [A packet scheduling scheme for improving real-time applications performance in downlink LTE-advanced.](#) Indonesian Journal of Electrical Engineering and Informatics (IJEEI) , 6 (2) pp.200-209
- 2018** [Beam steering antenna array for 5G telecommunication systems applications.](#) Progress In Electromagnetics Research M , 67 (4) pp.197-207
- 2018** [General analysis of resonance coupled wireless power transfer \(WPT\) using inductive coils.](#) Technical Gazette=Tehnicki Vjesnik , 25 (3) pp.720-726
- 2018** [Gateway sink placement for sensor node grid distribution in LoRa smart city networks.](#) Journal of Telecommunication, Electronic and Computer Engineering pp.1-7
- 2018** [Black phosphorus saturable absorber for pulse generation using Q-switched technique.](#) Indonesian Journal of Electrical Engineering and Computer Science , 11 (1) pp.36-40
- 2018** [Low-cost vibration chamber for landslide sensory and alarm system.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.110-119

- 2018** [Evaluation of MAC's distributed queuing algorithm for internet of things applications.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (3) pp.966-973
- 2018** [An indoor path loss model for wireless sensor networks.](#) International Journal of Ultra Wideband Communications and Systems , 3 (4) pp.192-200
- 2018** [Micro search engine for IoT: an IoT search engine prototype for private networks.](#) Recent Advances in Electrical and Electronic Engineering , 11 (2) pp.123-131
- 2018** [A real time vein detection system.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.129-137
- 2018** [Analysis of time diversity gain for satellite communication link based on ku-band rain attenuation data measured in Malaysia.](#) International Journal of Electrical and Computer Engineering (IJECE) , 8 (4) pp.2608-2613
- 2018** [Cluttered traffic distribution in LoRa LPWAN.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.214-223
- 2018** [Coil geometry models for power loss analysis and hybrid inductive link for wireless power transfer applications.](#) Sadhana - Academy Proceedings in Engineering Sciences , 43 (5) pp.1-11
- 2018** [Availability prediction methods for terrestrial free-space-optical link under tropical climate.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.224-229
- 2017** [RSSI-based human presence detection system for energy saving automation.](#) Indonesian Journal of Electrical Engineering and Informatics (IJEI) , 5 (4) pp.339-350
- 2017** [Development of wireless power transfer system using resonance principle with security features.](#) IIUM Engineering Journal , 18 (2) pp.117-127
- 2017** [Availability assessment of free-space-optics links with rain data from tropical climates.](#) Journal of Lightwave Technology , 35 (19) pp.4282-4288
- 2017** [The distribution of path loss exponent in 3D indoor environment.](#) International Journal of Applied Engineering Research , 12 (18) pp.7154-7161
- 2017** [Enhanced vein detection from video sequences.](#) Indonesian Journal of Electrical Engineering and Computer Science , 8 (2) pp.420-427
- 2017** [Novel distributed algorithm for coalition formation for enhanced spectrum sensing in cognitive radio networks.](#) International Journal of Electronics and Communications ( AEU) , 77 (7) pp.139-148
- 2017** [Novel distributed algorithm for coalition formation in cognitive radio networks for throughput enhancement using matching theory.](#) International Journal of Communication Systems pp.1-15
- 2017** [Design and implementation of a multihoming-based scheme to support mobility management in NEMO.](#) Wireless Personal Communications , 95 (2) pp.457-473
- 2017** [Autonomic Internet of things for enforced demand management in smart grid.](#) American Journal of Data Mining and Knowledge Discovery , 2 (2) pp.69-75

- 2017** [Resilient IEEE802.15.4MAC Protocol for Multi-Hop Mesh Wireless Sensor Network.](#) Journal of Telecommunication, Electronic and Computer Engineering (JTREC) , 9 (3-10) pp.71-77
- 2017** [Analysis of mutual inductance and coupling factor of inductively coupled coils for wireless electricity.](#) ARPN Journal of Engineering and Applied Sciences , 12 (13) pp.4007-4012
- 2017** [Analysis of hardware architecture Markovian Chain Queuing model for wireless sensor networks.](#) International journal of future generation communication and networking , 10 (1) pp.211-232
- 2017** [A 2X2 MIMO Patch Antenna for Multi-Band Applications.](#) Indonesian Journal of Electrical Engineering and Informatics , 5 (4) pp.383-389
- 2017** [Effects of shadowing on LoRa LPWAN Radio links.](#) International Journal of Electrical and Computer Engineering (IJECE) , 7 (6) pp.2970-2976
- 2017** [Dust storm attenuation modeling based on measurements in Sudan.](#) IEEE Transactions on Antennas and Propagation , 65 (8) pp.4200-4208
- 2017** [Performance analysis of rain attenuation on earth-to-satellite microwave links design in Libya.](#) IOP Conference Series: Materials Science and Engineering , 260 (na) pp.012041
- 2017** [Site diversity gain for earth-to-satellite links using rain intensity measurement.](#) Indonesian Journal of Electrical Engineering and Informatics (IJEI) , 5 (4) pp.330-338
- 2016** [TOPSIS-Based service arbitration for autonomic Internet of things.](#) IEEE ACCESS , 4 (-) pp.1313-1320
- 2016** [Wireless distributed computing for cyclostationary feature detection.](#) Digital Communications and Networks , 2 (1) pp.47-56
- 2016** [Analysis on the effect of stimulator parameters in electrical stimulation procedure on the human bicep muscle.](#) Jurnal Teknologi , 78 (7-5) pp.15-22
- 2016** [A numerical evaluation on multi-interfaced fast handoff scheme: impact of rising link switching delay for a high speed car.](#) Advanced Science Letters , 22 (10) pp.2804-2808
- 2016** [Effects of switching frequency to series loaded series resonant circuit.](#) ARPN Journal of Engineering and Applied Sciences , 11 (1) pp.382-386
- 2016** [A modified LTE simulator for 3D femtocell networks.](#) ARPN Journal of Engineering and Applied Sciences , 11 (1) pp.415-420
- 2016** [Parameterized indoor propagation model for mobile communication links .](#) Microwave and Optical Technology Letters , 58 (4) pp.823-826
- 2016** [Cost investigation of multihoming-based scheme to support mobility management in NEMO.](#) Malaysian Journal of Mathematical Sciences , 10 (5) (Part 2) pp.423-430
- 2016** [Jammer localization using wireless devices with mitigation by self-configuration.](#) PLOS ONE , 11 (9) pp.1-21



- 2016** [Handoff performance analysis for multihoming-based network mobility scheme.](#) International Journal of Smart Home , 10 (5) pp.339-346
- 2016** [Development of Wi-Fi based home energy monitoring system for green internet of things.](#) Journal of Electronic Science and Technology , 14 (3) pp.249-256
- 2016** [Visibility effect on the availability of a terrestrial free space optics link under a tropical climate.](#) Journal of Atmospheric and Solar-Terrestrial Physics , 143-144 pp.47-52
- 2016** [Availability analysis of free-space-optical links based on rain rate and visibility statistics from tropical a climate.](#) Optik - International Journal for Light and Electron Optics , 127 (22) pp.10316-10321
- 2016** [Design and simulation of a multihoming-based inter-system handoff scheme in NEMO.](#) Elektronika ir Elektrotechnika , 22 (1) pp.92-96
- 2016** [A QoS awareness scheme sustaining seamless handover for network mobility.](#) Indian Journal of Science and Technology , 9(S1), ((S1)) pp.1-8
- 2016** [Performance of ZigBee based fall detection alarm system.](#) IEICE Transactions on Communications , E99-B (2) pp.385-391
- 2015** [A scheme \(Diff NEMO\) for enhancing QoS in network mobility.](#) Journal of Applied Sciences , 15 (3) pp.474-482
- 2015** [Investigation of metamaterial unit cells based on dispersion characteristics.](#) ARPN Journal of Engineering and Applied Sciences , 10 (23) pp.17380-17385
- 2015** [Phased array antenna design for 5G mobile networks.](#) ARPN Journal of Engineering and Applied Sciences , 10 (23) pp.17370-17374
- 2015** [A proposed rain attenuation prediction method for free space optical link based on rain rate statistics.](#) ARPN Journal of Engineering and Applied Sciences , 10 (23) pp.17351-17355
- 2015** [Fair scheduling algorithm in LTE-advanced networks.](#) ARPN Journal of Engineering and Applied Sciences , 10 (23) pp.17337-17340
- 2015** [A modified effective path length for predicting rain attenuation based on measurements in Penang-Malaysia.](#) ARPN Journal of Engineering and Applied Sciences , 10 (21) pp.10096-10100
- 2015** [Autonomic computing in internet of things for resource management.](#) Journal of Next Generation Information Technology , 6 (4) pp.47-62
- 2015** [Design of rectangular microstrip patch antenna using stepped cut at four corners for broadband/multiband application.](#) ARPN Journal of Engineering and Applied Sciences , 10 (22) pp.17265-17269
- 2015** [Radio resource scheduling in LTE-advanced system with carrier aggregation.](#) ARPN Journal of Engineering and Applied Sciences , 10 (22) pp.17281-17285
- 2015** [QoS amendment toward seamless handover in network mobility NEMO.](#) ARPN Journal of Engineering and Applied Sciences , 10 (21) pp.9698-9709

- 2015** [Design of rectangular microstrip patch antenna using stepped cut at four corners for broadband/ multiband application.](#) ARPN Journal of Engineering and Applied Sciences , 10 (22) pp.17265-17269
- 2015** [Effects of wind velocity on slant path rain-attenuation for satellite application in Malaysia.](#) Acta Astronautica , 117 pp.402-407
- 2015** [P2P file sharing app for android devices sporting IEEE 802.15.4 zigbee radios.](#) ARPN Journal of Engineering and Applied Sciences , 10 (2) pp.557-562
- 2015** [A flow-based mobility architecture in multihomed nemo to minimize registration delay.](#) ARPN Journal of Engineering and Applied Sciences , 10 (2) pp.396-401
- 2015** [Generalized discrete fourier transform based improvement of partial transmit sequence scheme to reduce PAPR in OFDM systems.](#) Journal of Theoretical and Applied Information Technology , 76 (1) pp.76-81
- 2015** [Autonomic schemes for threat mitigation in internet of things.](#) Journal of Network and Computer Applications , 49 (1) pp.112-127
- 2015** [Characterization of RF signal behavior for the use in indoor human presence detection.](#) ARPN Journal of Engineering and Applied Sciences , 10 (21) pp.9669-9674
- 2015** [Coalition formation for throughput enhancement in cognitive radio wireless networks.](#) ARPN Journal of Engineering and Applied Sciences , 10 (21) pp.9675-9681
- 2015** [A simulation analysis of mobility models for network mobility environments.](#) ARPN Journal of Engineering and Applied Sciences , 10 (21) pp.9949-9952
- 2015** [Survey on energy harvesting cognitive radio network.](#) ARPN Journal of Engineering and Applied Sciences , 10 (23) pp.17407-17415
- 2015** [Energy detector assisted by geolocation database scheme utilizing radar bands.](#) ARPN Journal of Engineering and Applied Sciences , 10 (21) pp.10048-10051
- 2015** [A critique study on phase optimized generalized discrete fourier transform based partial transmit sequence for PAPR in OFDM systems.](#) ARPN Journal of Engineering and Applied Sciences , 10 (21) pp.10077-10087
- 2015** [A modified effective path length for predicting rain attenuation based on measurements in Penang-Malaysia.](#) ARPN Journal of Engineering and Applied Sciences , 10 (21) pp.10096-100100
- 2015** [Performance evaluation of LTE scheduling techniques for heterogeneous traffic and different mobility scenarios.](#) Advanced Computer and Communication Engineering Technology Lecture Notes in Electrical Engineering , 315 (15) pp.141-150
- 2015** [Development of physical intrusion detection system using wi-fi/zigbee RF signals.](#) Procedia Computer Science , 76 pp.547-552
- 2014** [Development of analytical approach to evaluate \(diffServ-MIPv6\) scheme.](#) Research Journal of Applied Sciences, Engineering and Technology , 7 (12) pp.2529-2538

- 2014** [Analytical evaluation of intra domain mobility approach in NEMO environment.](#) Research Journal of Applied Sciences, Engineering and Technology , 7 (7) pp.1139-1148
- 2013** [A modified cross antenna rotation and inversion algorithm for Peak-to-Average Power Ratio Reduction in MIMO-OFDM systems.](#) Pensee Journal , 75 (11) pp.68-73
- 2013** [Towards Islamic ethics in professional penetration testing.](#) Revelation and Science , 3 (2) pp.30-38
- 2013** [Challenges in online secure authentication and authorization methodology: a review.](#) Pensee Journal , 75 (12) pp.320-328
- 2013** [Incorporation of QoS in network mobility \(NEMO\) network.](#) International Journal of Computer Science and Network Security (IJCSNS) , 13 (12) pp.1-5
- 2013** [Secure scheme for user authentication and authorization in android environment.](#) International Journal of Engineering Research and Application , 3 (5) pp.1874-1882
- 2013** [Investigation of three dimensional empirical indoor path loss models for femtocell networks.](#) IOP Conference Series: Materials Science and Engineering , 53 (Conf.1) pp.012021-1
- 2013** [A framework for developing Real-Time OLAP algorithm using multi-core processing and GPU: heterogeneous computing.](#) IOP Conference Series: Materials Science and Engineering , 53 (Conf.1) pp.012043-1
- 2013** [Rain attenuation analysis using synthetic storm technique in Malaysia .](#) IOP Conference Series: Materials Science and Engineering , 53 (Conf.1) pp.012045-1
- 2013** [Evaluation of QoS supported in network mobility NEMO environments.](#) IOP Conference Series: Materials Science and Engineering , 53 pp.012032-1
- 2013** [Human gait recognition and classification using similarity index for various conditions .](#) IOP Conference Series: Materials Science and Engineering , 53 (Conf.1) pp.012069-1
- 2013** [Optimal throughput and self-adaptability of robust real-time IEEE 802.15.4 MAC for AMI Mesh network .](#) IOP Conference Series: Materials Science and Engineering , 53 (Conf.1) pp.012091-1
- 2013** [Enhancing the reliability of spectral correlation function with distributed computing .](#) IOP Conference Series: Materials Science and Engineering , 53 (01209) pp.1-8
- 2013** [Malicious behaviour of node and its significant security techniques in MANET- a review.](#) Australian Journal of Basic and Applied Sciences , 7 (12) pp.286-293
- 2013** [Analysis of p2p communication over various mobile platforms.](#) Australian Journal of Basic and Applied Sciences , 7 (11) pp.125-131
- 2013** [Comparison between scheduling techniques in long term evolution.](#) International Islamic University Malaysia Engineering Journal , 14 (1) pp.66-75
- 2013** [Robust real-time IEEE802.15.4 MAC protocol in multi-hop mesh network for distribution smart grid-AMI.](#) International journal of Engineering and Computer Science IJECS-IJENS , 13 (4) pp.1-8

- 2013** [Performance analysis of QoS scheme supported in MIPv6 network.](#) World Applied Sciences Journal , 28 (8) pp.1134-1145
- 2012** [Reliable cooperative multicasting for MBS WiMAX traffic.](#) Computer Networks , 56 (11) pp.2600-2613
- 2012** [Interference minimization schemes in OFDMA-based femtocells.](#) Australian Journal of Basic and Applied Sciences , 6 (10) pp.76-87
- 2012** [Quantum key distribution in real life.](#) World Applied Sciences Journal , 4 (10) pp.29-34
- 2011** [Reliable battery-aware cooperative multicasting for MBS WiMAX traffic.](#) International Journal of Communications, Network and System Sciences , 4 (10) pp.648-655
- 2008** [Effect of sensor specific body location on wireless network routing performance.](#) Electronics Letters , 44 (1) pp.40-42
- 2006** [Macro/micro-mobility fast handover in hierarchical mobile IPv6.](#) Computer Communications , 29 (11) pp.611-617
- 2004** [Aggregate history of user mobility pattern for QoS provisioning in multimedia wireless networks.](#) International Journal of Wireless Information Networks , 11 (1) pp.19-27
- 2003** [Utilising signal measurement in bandwidth reservation scheme for QoS provisioning in multimedia wireless networks.](#) Malaysian Journal of Computer Science , 16 (2) pp.58-72
- 2003** [Adaptive call admission control for QoS provisioning in multimedia wireless networks.](#) Computer Communications , 26 (14) pp.1560-1569
- 2001** [Improving the performance of the FPBA algorithm using random transmitter power levels.](#) IEE Proceedings: Communications , 148 (4) pp.212-216
- 2001** [Adaptive reservation TDMA protocol for wireless multimedia traffic.](#) Malaysian Journal of Computer Science , 14 (2) pp.1-19
- 2000** [Adaptive framed pseudo-Bayesian Aloha algorithm with priorities.](#) IET Electronic Letters , 36 (13) pp.1145-1147

#### **Conference or Workshop Item**

- 2020** [Design of UWB microstrip patch antenna with variable band notched characteristic for WiMAX application.](#) In: **2020 18th IEEE Student Conference On Research and Development (SCORED)**
- 2020** [Street lighting poles top solar power generation for typical housing area in Kuwait.](#) In: **2nd IEEE International Conference on Innovative Research and Development, ICIRD 2019**
- 2020** [Embedded LoRaWAN for agricultural sensing applications.](#) In: **2019 6th IEEE International Conference on Engineering Technologies and Applied Sciences (ICETAS)**
- 2020** [Review of SCADA systems and IoT honeypots.](#) In: **2019 6th IEEE International Conference on Engineering Technologies and Applied Sciences (ICETAS)**

- 2019 [Development of an emperical model for dust storm attenuation prediction.](#) In: **2019 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE)**
- 2019 [UWB antenna based time-domain approach for through the walls gap estimation.](#) In: **2019 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2019)**
- 2019 [Increasing RPL-based LLN lifespan using harvested solar energy.](#) In: **2019 IEEE 6th International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2019)**
- 2018 [Miniaturized turbine flow sensor: design and simulation.](#) In: **2018 7th International Conference on Computer Communication Engineering (ICCCE2018)**
- 2018 [LoRa LPWAN propagation channel modelling in IIUM Campus.](#) In: **2018 7th International Conference on Computer Communication Engineering (ICCCE2018)**
- 2018 [Effect of duty cycle on THD for multilevel inverter based on selective harmonic elimination technique.](#) In: **2018 7th International Conference on Computer Communication Engineering (ICCCE2018)**
- 2018 [Air born dust particles effects on microwave propagation in arid-area.](#) In: **7th International Conference on Computer and Communication Engineering, ICCCE 2018**
- 2018 [Availability modeling of terrestrial free-space-optical links using fade statistics from tropical climate.](#) In: **4th IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA2017)**
- 2018 [Enhanced vision based vein detection system.](#) In: **2017 IEEE 4th International Conference on Smart Instrumentation, Measurement and Application (ICSIMA)**
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