

OTHMAN OMRAN KHALIFA



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المؤهل العلمي

- Doctor of Philosophy in Electrical and Electronics Engineering
- Master of Science in Electronics Engineering
- Bachelor of Science in Electronic Engineering

مسؤوليات التدريس

COMMUNICATION ENGINEERING LAB II	2018/2019
COMMUNICATION ENGINEERING LAB IV	2008/2009
COMMUNICATION PRINCIPLES	2003/2004 2004/2005
COMMUNICATION PRINCIPLES (LAB)	2003/2004
COMMUNICATIONS LAB	2002/2003 2006/2007
COMPUTER GRAPHICS	2005/2006
COMPUTER VISION AND IMAGE PROCESSING	2003/2004 2004/2005 2005/2006 2006/2007 2008/2009 2010/2011 2011/2012 2012/2013 2013/2014 2015/2016 2016/2017 2017/2018
Communications Engineering Lab II	2018/2019 2019/2020 2020/2021
DIGITAL COMMUNICATION	2018/2019
DIGITAL COMMUNICATIONS	2002/2003 2016/2017
DIGITAL LOGIC DESIGN	2002/2003
DIGITAL LOGIC DESIGN (LAB)	2002/2003
DIGITAL SIGNAL PROCESSING	2002/2003 2003/2004 2004/2005 2005/2006 2006/2007 2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
DIGITAL SIGNAL PROCESSING (LAB)	2003/2004
Digital Communication Systems Design	2018/2019 2019/2020 2020/2021
FINAL YEAR PROJECT I	2019/2020

Final Year Project I	2018/2019
Final Year Project II	2018/2019
IMAGE PROCESSING	2008/2009 2009/2010
INFORMATION THEORY AND CODING	2003/2004 2004/2005 2005/2006 2006/2007 2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2015/2016 2016/2017
INFORMATION THEORY AND CODING (LAB)	2003/2004
INFORMATION, THEORY AND CODING	2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
PROJECT II	2018/2019
SEMINAR	2006/2007
SIGNALS AND SYSTEMS	2008/2009
SPEECH AND IMAGE PROCESSING	2003/2004 2004/2005

المشاريع البحثية

In Progress

- 2019 - Present** - Artificial Intelligence aided algorithm to improve the detection of severity of curve in scoliotic spine
- 2018 - Present** - An investigation of low cost and energy efficient 3D hybrid beamforming technique of 3D antenna array for 5G standards
- 2018 - Present** - Development of Continuous-time Non-invasive Glucose Sensing System
- 2016 - Present** - Training Teachers from Sudanese International Schools
- 2016 - Present** - Reduced-reference Metric Video Quality Metric using Spatial Information in Salient Regions
- 2015 - Present** - Analysis and Evaluation of Quality of Service Support Requirements in Mobile Network Environment
- 2009 - Present** - VSLI and MEMS Research Unit
- 2009 - Present** - VSLI and System Design Research Unit

Completed

- 2016 - 2019** - Reduced-reference Metric Video Quality Metric using Spatial Information in Salient Regions

- 2016 - 2018** Multihoming-Based Scheme to Support Mobility Management in NEMO
- 2015 - 2018** Database-Aided Energy Detection Spectrum Sensing To Enhance Cognitive Radio Spectrum Utilization Of RADAR Frequency Bands
- 2015 - 2018** Analysis and Evaluation of Quality of Service Support Requirements in Mobile Network Environment
- 2013 - 2015** Medical Identity Theft in Telemedicine: Solving the Privacy and Security Issues
- 2013 - 2016** Hierarchical Horizontally Cross-tiered Scheduling for Downlink in LTE-Advanced Mobile Telecommunication System
- 2013 - 2015** Optimised Multicast Support for Mobile Sender in Wireless Mesh Networks
- 2012 - 2015** Proof of Concept for a Novel Real Time, Hardware base Cancer Chemotherapeutics Kit Using MEMS Biosensor
- 2012 - 2015** Analytical evaluation of inter domain movement in NEMO environment
- 2012 - 2013** Brain tumor data collection and analysis for developing tumor growth model
- 2012 - 2015** Hardware Implementation of a Novel Impedance Spectroscopy System for Cancer Cell Studies
- 2012 - 2015** Handheld to Facilitate Development of an Effective Multi-Targets Monitoring and Tracking (MTTM) Model
- 2011 - 2012** Enhancement of Context Transfer in Mobile Multicast
- 2011 - 2013** Hardware Prototyping of Photoplethysmography Based Cardiac Monitoring Technique for Devising a Practical Remote Health Monitor
- 2011 - 2016** Distortion- Free Digital Watermaking For Medical Images (Fundus) Using Complex-Valued Neural Network
- 2011 - 2011** Design And Development Of RFID Tag Antenna For The Use Of Metallic Item
- 2011 - 2014** RU 2011: Measurement and Prediction of Crosspolarization Statistics Due to Tropical Rainfall at Future Generation Satellite Bands
- 2011 - 2011** An Investigation of Image Guided Surgery (IGS) Computational Effectiveness Based on Clinical Evaluation
- 2011 - 2012** RU 2011: Design and Evaluation of Network Mobility Protocol to Achieve Seamless Handoff
- 2010 - 2012** Context transfer based handoff in MPLS Domain
- 2010 - 2011** Development of a Path Loss Model for Mobile Communications in Malaysia
- 2010 - 2013** Novel Algorithms on Speech and Audio Coding Based on Compressive Sensing Principle
- 2010 - 2011** TDMA Protocol for Wireless Vehicular Communication

- 2010 - 2011** RFID for Haji Visitors Identification Guide Information and Personal Announcement
- 2010 - 2012** Design and Implementation of a Smart Mobile Phone Jammer
- 2010 - 2011** An Enhanced Network Mobility Protocol to Achieve Seamless Handoff
- 2010 - 2011** Interference Analysis in OFDMA-Femtocell Systems
- 2010 - 2012** Position-based quality of service (QoS) multicast Routing Protocol for Mobile Ad-Hoc Networks
- 2009 - 2009** Quality of Service Challenges in Mobile Environment
- 2009 - -1** Investigation of the Performance of the Existing Propagation Path Loss Models for Mobile Communication in Malaysia
- 2009 - 2011** Design and Stimulation of Adaptive Beamforming Algorithm and Linear Array Antenna for Smart Antenna System
- 2009 - 2011** Development of an Efficient Portable Algorithm for the Grid Environment
- 2009 - 2012** Development of an Emergency Medical Care System for Cardiac Telemedicine Monitoring
- 2008 - 2011** Developing an Efficient Approach for Handwritten Arabic Word Recognition
- 2008 - 2016** Vision-based Road Detection for Autonomous Intelligent Vehicles
- 2008 - 2010** Wireless Data Acquisition for Monitoring of Civil Structures with Embedded Sensors - Experimental Results
- 2008 - 2009** Gesture Recognition Using Muscle Signals for Human Computer Interaction
- 2008 - 2011** Development of a Robust and Scalable Routing Protocol for Wireless Mesh Networks.
- 2007 - 2009** Vision-Based Road Detection for Autonomous Intelligent Vehicle
- 2007 - 2012** A New Modeling Technique for The Real Time Analysis of Multicomponent Transient Signals.
- 2006 - 2011** Development of Finite Field Polynomial Representation for Encoding and Decoding Operations of Low Density Parity Check Codes

المنشورات

Article

- 2020** [Performance evaluation of AODV ,OLSR, and GRP for transmitting video conferencing over MANETs.](#) International Journal of Computer Science and Information Security (IJCSIS) , 18 (4) pp.45-51

- 2020** [Design and evaluation of a multihoming-based mobility management scheme to support inter technology handoff in PNEMO.](#) Wireless Personal Communications , Online First pp.1-21
- 2020** [Simulation of handoff algorithm for NDN producer's mobility.](#) Journal of Advanced Research in Dynamical and Control Systems , 12 (2) pp.2242-2251
- 2020** [Performance analysis of constrained device virtualization algorithm.](#) International Journal of Innovative Technology and Exploring Engineering (IJITEE) , 9 (5) pp.532-539
- 2020** [Evaluating signalling and packet delivery cost for NDN producer's mobility in smart & sustainable environment.](#) Journal of Advanced Research in Dynamical and Control Systems , 12 (6) pp.1604-1614
- 2019** [براءات الاختراع في الوطن العربي \(the status of patents in the Arab World: an evaluation introductory\).](#) مجلة المستقبل العربي (Arab Future) , 41 (481) pp.28-45
- 2019** [Analytical modelling of premises-specific solar energy estimation.](#) International Journal of Recent Technology and Engineering (IJRTE) , 8 (5) pp.10971-10974
- 2019** [Evaluating mobility management models for content forwarding in named data networking environments.](#) International Journal of Interactive Mobile Technologies (ijIM) , 13 (4) pp.47-60
- 2019** [Throughput analysis for the mobility of a consumer and an anchorless producer in NDN.](#) Journal of Advanced Research in Dynamical and Control Systems , 11 (1) pp.189-196
- 2019** [Video streaming over Ad hoc on-demand distance vector routing protocol.](#) Bulletin of Electrical Engineering and Informatics , 8 (3) pp.863-874
- 2019** [Efficient 3D stereo vision stabilization for multi-camera viewpoints.](#) Bulletin of Electrical Engineering and Informatics , 8 (3) pp.882-889
- 2019** [Improved voice quality with the combination of transport layer & audio codec for wireless devices.](#) Bulletin of Electrical Engineering and Informatics , 8 (2) pp.667-675
- 2019** [Principal component analysis for human gait recognition system.](#) Bulletin of Electrical Engineering and Informatics , 8 (2) pp.571-578
- 2019** [Neuroscience-inspired artificial vision feature parallelism and deep learning models, a comparative study ii depth.](#) Journal of Asian Scientific Research , 9 (9) pp.127-139
- 2019** [Performance evaluation of best route and broadcast strategy for NDN producer's mobility.](#) International Journal of Engineering and Advanced Technology (IJEAT) , 9 (1) pp.3671-3677
- 2019** [Performance analysis of LDPC channel coding in 4G systems.](#) International Journal of Recent Technology and Engineering (IJRTE) , 8 (1) pp.1667-1670
- 2018** [Robust vision-based multiple moving object detection and tracking from video sequences.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (2) pp.817-826

- 2018** [An improved image steganography algorithm based on PVD.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (2) pp.569-577
- 2018** [Beam steering using the active element pattern of antenna array.](#) TELKOMNIKA: Telecommunication Computing Electronics and Control , 16 (4) pp.1542-1550
- 2018** [Measuring the road traffic intensity using neural network with computer vision.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.184-190
- 2018** [Fuzzy logic based edge detection method for image processing.](#) International Journal of Electrical and Computer Engineering , 8 (3) pp.1863-1869
- 2018** [Reduced-reference video quality metric using spatial Information in salient regions.](#) TELKOMNIKA , 16 (3) pp.965-973
- 2018** [Data in transit validation for cloud computing using cloud-based algorithm detection of injected objects.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.348-353
- 2018** [Developing a robust framework to reduce the size of a recorded video surveillance systems.](#) International Journal of Future Generation Communication and Networking , 11 (1) pp.37-46
- 2018** [Beam steering using the active element pattern of antenna array.](#) TELKOMNIKA: Telecommunication Computing Electronics and Control , 16 (4) pp.1542-1550
- 2017** [The feature parallelism model of visual recognition.](#) International Journal of Multimedia and Ubiquitous Engineering , 12 (2) pp.171-186
- 2017** [An overview of MANETs: applications, characteristics, challenges and recent issues.](#) International Journal of Engineering and Advanced Technology , 6 (4) pp.128-133
- 2017** [Cryptography as a Service \(CaaS\): Quantum cryptography for secure cloud computing.](#) Indian Journal of Science and Technology , 10 (7) pp.1-7
- 2017** [Development of gateway discovery and selection scheme for MANEMO \(MGDSS\).](#) International Journal of Future Generation Communication and Networking , 10 (3) pp.81-90
- 2017** [Performance of turbo code in CDMA under AWGN channel.](#) International Journal of Future Generation Communication and Networking , 10 (5) pp.18-28
- 2017** [Single channel speech enhancement using Wiener filter and compressive sensing.](#) International Journal of Electrical and Computer Engineering (IJECE) , 7 (3) pp.1941-1951
- 2017** [Border gateway protocol to provide failover in multihoming environment.](#) International Journal of Information Technology , 9 (1) pp.33-39
- 2017** [Towards an ethical online payment system through cryptography and next generation communication network.](#) International Journal of Security and Its Applications (IJSIA) , 10 (10) pp.25-34
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- 2017** [A comprehensive classification of MANETs routing protocols.](#) International Journal of Computer Applications Technology and Research , 6 (3) pp.141-158
- 2017** [قراءة في عدد الأوراق العلمية العالمية للباحثين من الوطن العربي إحصاءات 2004 و2014 = Reading in the international scientific papers numbers to researchers from the Arab World: statistics 2004-2014.](#) المستقبل العربي (Al Mustaqbal Al Arabi) (The Arab Future) , 39 (385) pp.21-38
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- 2017** [A dynamic bandwidth schemes base on adaptive video streaming.](#) Transylvanian Review , XXV (22) pp.5709-5718
- 2017** [State-Aware re-configuration model for multi-radio wireless Mesh Networks.](#) KSII Transactions on Internet and Information Systems , 11 (1) pp.146-170
- 2017** [Integrating entrepreneurship into engineering education.](#) International Journal of u- and e- Service, Science and Technology , 10 (2) pp.45-52
- 2017** [The effect of network's size on the performance of the gGateway discovery and selection scheme for MANEMO.](#) Indonesian Journal of Electrical Engineering and Informatics (IJEI) , 5 (4) pp.351-356
- 2016** [تحويل النص العربي إلى كلام منطوق بناء علي تقنية التركيب المختلط.](#) Communications of the Arab Computer Society , 9 (1) pp.1-13
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- 2016** [Video streaming based on temporal frame transcoding.](#) Advanced Science Letters , 22 (10) pp.2852-2855
- 2016** [Adaptive image enhancement .](#) Journal of Scientific and Engineering Research , 3 (2) pp.243-252
- 2016** [تحويل النص العربي إلى كالم منطوق بناء علي تقنية التركيب المختلط.](#) Communications of the Arab Computer Society , 9 (1) pp.63-76
- 2016** [نحو نموذج جديد لرسم القرآن الكريم باستخدام الحاسب الآلي.](#) Communications of the Arab Computer Society , 9 (1) pp.1-9
- 2016** [تشفير يونيكود ودوره في تسهيل كتابة القرآن الكريم باستخدام الحاسب الآلي.](#) Communications of the Arab Computer Society , 9 (1) pp.1-11
- 2016** [Speech enhancement based on wiener filter and compressive sensing.](#) Indonesian Journal of Electrical Engineering and Computer Science , 2 (2) pp.367-379
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- 2016** [Probabilistic collocation method for evaluation available transfer capability hybrid wind power system.](#) ARPN Journal of Engineering and Applied Sciences , 11 (6) pp.4143 -4153
- 2015** [Challenging development citizen-centric e-governance in Sudan .](#) International Journal of Innovative Science, Engineering & Technology , 2 (8) pp.452-456
- 2015** [Region and active contour-based segmentation technique for medical and weak-edged images.](#) Computational and Applied Mathematics , 1 (3) pp.71-78
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- 2015** [Video transmission over an enhancement approach of IEEE802.11e.](#) International Journal of Computer Applications Technology and Research , 4 (5) pp.343-350
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- 2015** [Human posture recognition: methodology and implementation .](#) Journal of Electrical Engineering Technology , 10 (4) pp.1911-1915
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- 2014** [Development of wearable pulse oximetry for telehealth monitoring system .](#) Journal of Electrical Engineering , 14 (4) pp.1-6
- 2014** [Video quality challenges in wireless networks .](#) International Journal of Computer Science and Network Security (IJCSNS) , 14 (11) pp.10-13

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- 2013** [Computational intelligence: It's application in digital watermarking](#). Middle East Journal of Scientific Research (MEJSR) , 13 pp.25-30
- 2013** [Increasing the hiding capacity of low-bit encoding audio steganography using a novel embedding technique](#). World Applied Sciences Journal , 21 pp.78-83
- 2013** [ICT in Telemedicine: Conquering Privacy and Security Issues In Health Care Services](#) . electronic Journal of Computer Science and Information Technology , 4 (1) pp.19-24
- 2013** [Evaluation of QoS supported in network mobility NEMO environments](#). IOP Conference Series: Materials Science and Engineering , 53 pp.012032-1-11
- 2013** [A novel approach to tumor quantification and graphical model for image guided surgery](#). Scottish Journal of Arts, Social Sciences and Scientific Studies , 12 (1) pp.3-15
- 2013** [Speech enhancement based on compressive sensing algorithm](#). IOP Conference Series: Materials Science and Engineering Email alert RSS feed , 53 pp.012076
- 2013** [Design and optimization of Levenberg-Marquardt based Neural Network Classifier for EMG signals to identify hand motions](#). Measurement Science Review , 13 (3) pp.142-151
- 2013** [Electromagnetic scattering computation methods for very small spheroidal dust particles: theory and applications](#). Middle East Journal of Scientific Research (MEJSR) , 13 pp.38-42
- 2013** [Analytical evaluation of a new route optimization scheme for nested mobile network](#). World Applied Sciences Journal (21) pp.16-20
- 2013** [An enhanced macro mobility management scheme in NEMO environment to achieve seamless handoff](#). World Applied Sciences Journal (21) pp.35-39
- 2013** [Design and performance analysis of artificial neural network for hand motion detection from EMG signals](#). World Applied Sciences Journal , 23 (6) pp.751-758
- 2013** [Statistical modeling for speech recognition](#). World Applied Sciences Journal (21) pp.115-122
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- 2012** [Development of low bit rate speech encoder based on vector quantization and compressive sensing](#). Journal of Applied Sciences pp.1-11
- 2012** [Position-based multicast routing in mobile ad hoc networks: an analytical study](#). KSII Transactions on Internet and Information Systems , 6 (6) pp.1586-1605
- 2012** [VHDL modeling of EMG signal classification using artificial neural network](#). Journal of Applied Sciences , 12 (3) pp.244-253
- 2012** [Cluster-based multihop synchronization scheme for femtocell network](#) . IIUM Engineering Journal , 13 (2) pp.161-172

- 2012** [Effective car monitoring and tracking model.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.1-8
- 2012** [Analytical evaluation of a new route optimization scheme for nested mobile network.](#) World Applied Sciences Journal pp.16-20
- 2012** [An enhanced macro mobility management scheme in NEMO environment to achieve seamless handoff.](#) World Applied Sciences Journal , 20 pp.35-39
- 2012** [Framework for enhancement of image guided surgery: finding area of tumor volume .](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.9-16
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- 2012** [Performance evaluation in MANETs environment.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.143-148
- 2012** [Arabic Speaker-Independent Continuous Automatic Speech Recognition Based on a Phonetically Rich and Balanced Speech Corpus .](#) International Arab Journal of Information Technology (IAJIT) , 9 (1) pp.84-93
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- 2011** [A rule-based Arabic text-to-speech system based on hybrid synthesis technique.](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.342-354
- 2011** [Determining watermark embedding strength using complex valued neural network.](#) Journal of Applied Sciences , 11 (16) pp.2907-2915
- 2011** [Simulation evaluation of DiffServ approach integrated in MIPv6 networks.](#) Australian Journal of Basic and Applied Sciences , 5 (5) pp.386-396
- 2011** [Mobility management schemes in NEMO to achieve seamless handoff: a qualitative and quantitative analysis .](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.390-402
- 2011** [An enhanced scheme to support QoS in MIPv6 based networks using DiffServ.](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.447-455
- 2011** [A cluster-based QoS multicast routing protocol for scalable MANETs.](#) KSII Transactions on Internet and Information Systems , 5 (4) pp.741-762
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- 2011** [Vision based road lane detection system for vehicles guidance.](#) Australian Journal of Basic and Applied Sciences , 5 (5) pp.728-738
- 2011** [Power control for interference avoidance in femtocell network.](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.416-422
- 2011** [Investigation of route optimization for mobile ad hoc NEMO \(MANEMO\) based proposals.](#) Australian Journal of Basic and Applied Sciences , 5 (6) pp.814-838
- 2011** [Forgery detection in medical images using Complex Valued Neural Network \(CVNN\).](#) Australian Journal of Basic and Applied Sciences , 5 (7) pp.1251-1264
- 2011** [Geographical Multicast Quality of Service Routing Protocol for Mobile Ad-Hoc Networks.](#) Engineering Letters , 18 (3) pp.212-225
- 2011** [Phonetically rich and balanced text and speech corpora for Arabic language.](#) Language Resources and Evaluation pp.1-34
- 2011** [Ethical issues in monitoring and based tracking systems.](#) IIUM Engineering Journal , Spcial (Scienc)
- 2011** [Mathematical evaluation of a context transfer-based approach to improve handover in mobile multicast environment.](#) Australian Journal of Basic and Applied Sciences , 5 (2) pp.165-172
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- 2010** [Suitability of using symmetric key to secure multimedia data: an overview..](#) Journal of Applied Sciences , 10 (15) pp.1665-1661
- 2010** [Performance evaluation of MPEG-4 video transmission over IEEE802.11e.](#) International Journal of Computer and Network Security(IJCSNS) , 2 (5) pp.11-15
- 2010** [RD-Optimisation analysis for H.264/AVC scalable video coding.](#) International Journal of Computer and Network Security (IJCNS) , 2 (4) pp.1-5
- 2010** [Forward masking threshold estimation using neural networks and its application to parallel speech enhancement.](#) IIUM Engineering Journal , 11 (1) pp.15-26
- 2010** [Enhancing selective encryption for H.264/AVC using advanced encryption standard.](#) International Journal of Computer Theory and Engineering , 2 (2) pp.223-229
- 2010** [Fade margin analysis due to duststorm based on visibility data measured in a desert.](#) American Journal of Applied Sciences , 7 (4) pp.551-555
- 2010** [Analysis of transient multiexponential signals using cepstral deconvolution.](#) Applied and Computational Harmonic Analysis , 29 (1) pp.88-96
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- 2010** [Prediction of signal attenuation due to duststorms using mie scattering.](#) IJUM Engineering Journal , 11 (1) pp.71-87
- 2010** [Engineering curriculum design and development.](#) Australian Journal of Islamic Studies , 2 (1) pp.7-26
- 2010** [Damageless digital watermarking using complex-valued artificial neural network .](#) Journal of Information and Communication Technology , 9 pp.111-137
- 2010** [Advances in electromyogram signal classification to improve the quality of life for the disabled and aged people.](#) Journal of Computer Science , 6 (7) pp.705-715
- 2009** [Signal attenuation due to duststorms at KA band .](#) Sudan Engineering Society Journal , 53 (56)
- 2009** [New approach of hidden data in the portable executable file without change the size of carrier file using statistical technique.](#) International Journal of Computer Science and Network Security (IJCSNS) , 9 (7) pp.218-224
- 2009** [Novel framework for hidden data in the image page within executable file using computation between advanced encryption standard and distortion techniques.](#) International Journal of Computer Science and Information Security , 3 (1) pp.1-6
- 2009** [Independent component analysis for fetal heart rate detection using photosplethysmography.](#) International Journal of Information Analysis and Processing , 2 (1) pp.1-6
- 2009** [Novel approach for secure cover file of hidden data in the unused area within EXE file using computation between cryptography and steganography.](#) International Journal of Computer Science and Network Security (IJCSNS) , 9 (5) pp.294-300
- 2009** [Mathematical model For the prediction of microwave signal attenuation due to duststorm.](#) Progress In Electromagnetics Research M , 6 pp.139-153
- 2009** [EMG signal classification for human computer interaction: a review.](#) European Journal of Scientific Research , 33 (3) pp.480-501
- 2008** [Rule-based fuzzy logic controller with adaptable reference.](#) International Journal of Electrical and Computer Engineering , 3 (1) pp.7-11
- 2008** [Capacitive transducer circuits for liquid level measurement.](#) International Journal of Computer Sciences and Engineering Systems , 2 (3) pp.195-197
- 2008** [Analysis on perceptibility and robustness of digital watermarking using discrete wavelet transform.](#) International Journal of Computer Science and Engineering Systems , 2 (4) pp.233-236
- 2008** [Reed-Muller Codec Simulation Performance.](#) Journal of Computer Science , 4 (10) pp.792-798
- 2008** [Toward Efficient Low Cost Highly Accurate Emotion Speech Synthesizer.,.](#) International Journal of Computer Science and Network Security (IJCSNS) , 8 (9) pp.316-320
- 2008** [Compression using Wavelet Transform.](#) International Journal of Signal Processing , 2 (5) pp.17-26

- 2008 [Adaptive Emotional Personality Model based on Fuzzy Logic Interpretation of Five Factor Theory.](#) International Journal of Signal Processing , 2 (4) pp.1-9
- 2008 [Review of multicast QoS routing protocols for mobile ad hoc networks.](#) International Journal of Computer Science and Network Security (IJCSNS) , 8 (12) pp.108-117
- 2008 [An efficient emergency, healthcare, and medical information system.](#) International Journals of Biometric and Bioinformatics (IJBB) , 2 (5) pp.1-9
- 2007 [Malaysian vehicle license plate recognition.](#) The International Arab Journal of Information Technology , 4 (4) pp.359-364
- 2007 [SMaTTS: standard malay text to speech system.](#) International Journal of Electrical and Computer Engineering , 4 (2) pp.285-293
- 2007 [PDA mobile learning using indoor intelligent wireless whiteboard.](#) Turkish Online Journal of Distance Education-TOJDE , 8 (2) pp.9-13
- 2007 [A high accuracy measurement circuit for soil moisture detection.](#) World Academy of Science, Engineering and Technology , 1 (11) pp.947-950
- 2006 [Radiation measurement from mobile base stations at a university campus in Malaysia.](#) American Journal of Applied Sciences , 3 (4) pp.1781-1784
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- 2005 [MATLAB and simulink in mechatronics education.](#) International Journal for Engineering Education , 21 (2) pp.896-905
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- 2004 [Hearing aids system for impaired peoples.](#) International Journal of Computing and Information Sciences , 2 (1) pp.23-26
- 2003 [Review of wavelet theory and its application to image data compression.](#) IJUM Engineering Journal , 4 (1) pp.25-43

Conference or Workshop Item

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