

ADAMU ABUBAKAR IBRAHIM



- KULLIYAH OF INFORMATION AND COMMUNICATION TECHNOLOGY
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المؤهل العلمي

- Information and Communication Technology
- Cryptography, Steganography, and Watermarking
- Database system and DBMS
- Geography

مسؤوليات التدريس

COMPUTER MEDIATED COMMUNICATION	2017/2018 2018/2019 2019/2020
COMPUTER NETWORKING	2016/2017 2017/2018 2018/2019 2019/2020
DATA COMMUNICATION IN BUSINESS	2012/2013 2015/2016
DATA MANAGEMENT	2016/2017
DATA STRUCTURE & ALGORITHM	2014/2015
DATA STRUCTURED & ALGORITHM	2014/2015
FINAL YEAR PROJECT	2016/2017 2017/2018 2018/2019
FINAL YEAR PROJECT I	2014/2015 2015/2016 2017/2018
FINAL YEAR PROJECT II	2014/2015 2015/2016 2017/2018 2019/2020
FOUNDATION OF QUANTITATIVE ANALYSIS	2015/2016
INDUSTRIAL ATTACHMENT	2014/2015 2015/2016 2016/2017 2017/2018
INFORMATION RESOURCE AND STRATEGY MANAGEMENT	2013/2014 2014/2015
INFORMATION RETRIEVAL TECHNOLOGIES	2013/2014 2014/2015 2015/2016
MANAGEMENT INFORMATION SYSTEM	2014/2015
OPERATING SYSTEM	2016/2017
OPERATING SYSTEM	2014/2015
WEB PROGRAMMING II	2011/2012 2012/2013

المشاريع البحثية

In Progress

- 2018 - Present** Novel Over-sampling Methods for Classification of Imbalanced Quranic Topics
- 2014 - Present** User Awareness on the Authenticity of Mobile Quran
- Unknown - Present** A semantic framework remodeling on GPS mobile outdoor navigation for blind pedestrians

Completed

- 2016 - 2019** A Structured Large Data Volume Heterogeneity with Minimal Incompleteness in a Big Data Analytics
- 2015 - 2018** An Enhanced Centralized Multi-Nodal Model Associated with Congested Network Environment
- 2015 - 2019** A Model for Assessing IT Readiness in Organizations for Successful Business Intelligence Systems
- 2014 - 2019** User Awareness on the Authenticity of Mobile Quran
- 2013 - 2016** Subjective Assessment Model of the Quranic Audio Watermarking

المنشورات

Article

- 2019** [The connectivity and the static-cost-effective analysis of a shifted completely connected network.](#) International Journal of Computational Intelligence Studies , 8 (1/2) pp.158-175
- 2019** [Limit behavior of the trajectories of extreme doubly stochastic quadratic operators on two dimensional simplex.](#) International Journal of Recent Technology and Engineering (IJRTE)
- 2019** [Recent advances in mobile touch screen security authentication methods: a systematic literature review.](#) Computers & Security , 85 pp.1-24
- 2019** [Cotton crop cultivation oriented semantic framework based on IoT smart farming application.](#) International Journal of Engineering & Advanced Technology (IJEAT) , 8 (3) pp.480-484
- 2019** [Rift: a high-performance consensus algorithm for Consortium Blockchain.](#) International Journal of Recent Technology and Engineering , 7 (6S) pp.989-997
- 2019** [Sensor enhanced health information systems: issues and challenges.](#) International Journal of Interactive Mobile Technologies , 13 (1) pp.99-114
- 2019** [Users perception of cryptocurrency system application from the Islamic views.](#) International Journal on Islamic Applications in Computer Science And Technology , 7 (1) pp.13-25

- 2018** [Nonlinear convergence algorithm: structural properties with doubly stochastic quadratic operators for multi-agent systems.](#) Journal of Artificial Intelligence and Soft Computing Research , 8 (1) pp.49-61
- 2018** [Critical factors influencing effective of ICT resources and capabilities.](#) Journal of Theoretical and Applied Information Technology , 96 (6) pp.1633 -1646
- 2018** [Small and medium-sized enterprise: prioritization of Internet bandwidth needs for business purposes.](#) International Journal of Advanced Science and Technology , 116 pp.151-166
- 2018** [BSCL: Blockchain-Oriented SDN Controlled cloud based Li-Fi communication architecture for smart city network.](#) International Journal of Engineering & Technology , 7 (4) pp.888-892
- 2017** [CPU scheduling with a round Robin algorithm based on an effective time slice.](#) Journal of Information Processing Systems , 13 (4) pp.941-950
- 2017** [Soft computing approach for predicting OPEC countries' oil consumption.](#) International Journal of Oil, Gas and Coal Technology , 15 (3) pp.298-316
- 2017** [Dynamics of watermark position in audio watermarked files using neural networks.](#) Applied Mathematics & Information Sciences , 11 (3) pp.703-715
- 2017** [A Review on mobile SMS Spam filtering techniques.](#) IEEE Access , 5 pp.15650-15666
- 2017** [Bio-inspired computation: Recent development on the modifications of the cuckoo search algorithm.](#) Applied Soft Computing , 61 pp.149-173
- 2017** [Advances in teaching and learning on facebook in higher institutions.](#) IEEE ACCESS , 5 pp.480-500
- 2017** [A review on soft set-based parameter reduction and decision making.](#) IEEE ACCESS , 5 pp.4671-4689
- 2017** [The dynamics of data packet in transmission session.](#) IEEE ACCESS , 5 pp.4329-4339
- 2017** [Integrated modalities search framework for digital english language text Holy Qur'an and Tafsir.](#) International Journal on Islamic Applications in Computer Science And Technology , 5 (2) pp.26-36
- 2017** [Neural networks optimization through genetic algorithm searches: A review.](#) Applied Mathematics and Information Sciences , 11 (6) pp.1543-1564
- 2017** [Online fake news detection algorithm.](#) Journal of Theoretical and Applied Information Technology , 95 (17) pp.4114-4122
- 2016** [Empirical investigation of the factors influencing the usage mobile government services: case study of Saudi Arabia.](#) International Journal of Advanced Research , 4 (1) pp.1443-1450
- 2016** [Examining the round trip time and packet length effect on window size by using the Cuckoo search algorithm.](#) International Review on Computers and Software (IRECOS) , 11 (9) pp.752-763

- 2016** [Utilising key climate element variability for the prediction of future climate change using a support vector machine model.](#) International Journal of Global Warming , 9 (2) pp.129-151
- 2016** [A support vector machine classification of computational capabilities of 3D map on mobile device for navigation aid.](#) International Journal of Interactive Mobile Technologies , 10 (3) pp.4-10
- 2016** [A review on artificial intelligence methodologies for the forecasting of crude oil price.](#) Intelligent Automation & Soft Computing , 22 (3) pp.449-462
- 2016** [An intermediate significant bit \(ISB\) watermarking technique using neural networks.](#) SpringerPlus , 5 (1) pp.868-1-868-25
- 2016** [Non-contact electrocardiogram \(ECG\) smart chair for ST segment elevation myocardial infarction detect.](#) Journal of Theoretical and Applied Information Technology , 84 (3) pp.315-320
- 2016** [A new approach for forecasting OPEC petroleum consumption based on neural network train by using flower pollination algorithm.](#) Applied Soft Computing , 48 (November 2016) pp.50-58
- 2016** [Utilizing modular neural network for prediction of possible emergencies locations within point of interest of Hajj pilgrimage.](#) Modern Applied Science , 10 (2) pp.34-51
- 2016** [Studying the effect of training Levenberg Marquardt neural network by using hybrid meta-heuristic algorithms.](#) Journal of Computational and Theoretical Nanoscience , 13 (1) pp.450-460
- 2015** [Optimization of neural network using cuckoo search for the classification of diabetes.](#) Journal of Computational and Theoretical Nanoscience , 12 (12) pp.5755-5758
- 2015** [Image segmentation methods and edge detection: An application to knee joint articular cartilage edge detection.](#) Journal of Theoretical and Applied Information Technology , 71 (1) pp.87-96
- 2015** [Visualisation of a three-dimensional \(3D\) object's optimal reality in a 3D map on a mobile device.](#) Applied Mathematics & Information Sciences , 9 (6) pp.3133-3145
- 2015** [Malaria severity classification through Jordan-Elman neural network based on features extracted from thick blood smear.](#) Neural Network World , 5 (15) pp.565-584
- 2015** [Global warming: predicting OPEC carbon dioxide emissions from petroleum consumption using neural network and hybrid cuckoo search algorithm.](#) PLoS ONE , 10 (8) pp.1-21
- 2015** [Intelligent decision support systems for oil price forecasting.](#) International Journal of Information Science and Management (IJISM) , Spec. pp.47-59
- 2015** [An appraisal of Malaysian hospital websites as a new media tool for improving healthcare information: a systematic review.](#) Australian Journal of Basic and Applied Sciences , 9 (2) pp.151-156

- 2015** [Knowledge management framework using green IT to implement sustainable entrepreneur ecosystem](#) . Applied Mathematics & Information Sciences , 9 (5) pp.2703-2714
- 2015** [A review of the advances in cyber security benchmark datasets for evaluating data-driven based intrusion detection systems](#). Procedia Computer Science , 62 pp.221-227
- 2014** [The state of online audio qur'an and its public perception](#). International Journal on Islamic Applications in Computer Science And Technology , 2 (4) pp.23-34
- 2014** [Investigating the impact of audience response system on student's performance outcomes](#). World Applied Sciences Journal , 32 (7) pp.1268-1283
- 2014** [Empirical investigation of visualization quality for three-dimensional \(3d\) objects of 3d map on mobile device for navigation aid](#) . Journal of Theoretical and Applied Information Technology , 63 (2) pp.372-380
- 2014** [A navigation-aided framework for 3D map views on mobile devices](#). International Review on Computers and Software (IRECOS) , 9 (9) pp.1605-1611
- 2014** [Implementation of server virtualization to build energy efficient data centers](#). Journal of Power Technologies , 94 (2) pp.1-10
- 2014** [Modified low energy adaptive clustering hierarchy protocol for efficient energy consumption in wireless sensor networks](#). International Review on Computers and Software (I.RE.CO.S.) , 9 (11) pp.1904-1915
- 2014** [A framework for realizing universal standardization for internet of things](#). Journal of Industrial and Intelligent Information , 2 (2) pp.147-153
- 2014** [Randomized text encryption: a new dimension in cryptography](#). International Review on Computers and Software (I.RE.CO.S.) , 9 (2) pp.365-373
- 2014** [Subjective assessment of audio watermarked quran](#). Ulum Islamiyyah - The Malaysian Journal of Islamic Sciences , 13 (Sp. ed) pp.75-90
- 2013** [Effective utilization of 3D representation in mobile device for pedestrian navigation aid](#). International Journal of Humanities and Social Science , 3 (4) pp.182-188
- 2013** [Visual interactive Islamic learning system for children](#). International Journal on Islamic Applications in Computer Science And Technology , 1 (3) pp.17-23
- 2013** [Computational intelligence techniques with application to crude oil price projection: a literature survey from 2001-2012](#) . Neural Network World , 6 (13) pp.523-551
- 2013** [Computational intelligence techniques with application to crude oil price projection: A literature survey from 2001-2012](#) . Neural Network World: International Journal On Non-Standard Computing And Artificial Intelligence , 23 (6) pp.523-551
- 2012** [3D graphics visualization for interactive mobile users navigation](#). WSEAS Transactions on Systems , 11 (8) pp.453-464

Conference or Workshop Item

- 2019 [Hybrid of swarm intelligent algorithms in medical applications.](#) In: **The Second International Conference on Advanced Data and Information Engineering (DaEng-2015)**
- 2019 [Nature inspired meta-heuristic algorithms for deep learning: recent progress and novel perspective.](#) In: **Computer Vision Conference (CVC) 2019**
- 2018 [An improved chaotic image encryption algorithm.](#) In: **2018 International Conference on Smart Computing and Electronic Enterprise, ICSCEE 2018**
- 2018 [Information-based interactive services and support system.](#) In: **2017 IEEE Conference on Systems, Process and Control (ICSPC 2017)**
- 2018 [Window size and round-trip-time in a network transmission session.](#) In: **2018 International Conference on Information and Communication Technology for the Muslim World (ICT4M)**
- 2018 [Cloud computing platforms for delivering computer science and mathematics instructional course content to learners.](#) In: **3rd IEEE International Conference on Electro-Technology for National Development, NIGERCON 2017**
- 2018 [MapReduce a comprehensive review.](#) In: **2018 International Conference on Smart Computing and Electronic Enterprise (ICSCEE 2018)**
- 2018 [Software defined-network for real-time operations of business intelligence tasks.](#) In: **International Conference on Business, Humanities and Education (ICBHE 2018)**
- 2017 [Successful business intelligence system for SME: An analytical study in Malaysia.](#) In: **International Research and Innovation Summit (IRIS2017)**
- 2017 [The trend of business intelligence adoption and maturity.](#) In: **2nd International Conference on Computer Science and Engineering**
- 2016 [An appraisal of online audio Qur'an as a new media tool for civilization.](#) In: **1st International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering, 2015**
- 2016 [TCP Skudai: A high performance TCP variant for Collaborative Virtual Environment systems.](#) In: **6th International Conference on Information and Communication Technology for the Muslim World (ICT4M 2016)**
- 2016 [The mediating effect of teamwork toward organizational readiness for Business Intelligence \(BI\) implementation.](#) In: **2015 4th International Conference on Advanced Computer Science Applications and Technologies (ACSAT 2015)**
- 2016 [The extreme doubly stochastic quadratic operators on two dimensional simplex.](#) In: **2015 4th International Conference on Advanced Computer Science Applications and Technologies (ACSAT 2015)**
- 2016 [Stegano-image as a digital signature to improve security authentication system in mobile computing.](#) In: **2016 International Conference on Informatics and Computing (ICIC)**
- 2016 [VisUN-3D: User navigation with visualized 3D maps for mobile users.](#) In: **2016 International Conference on Informatics and Computing (ICIC)**

- 2016 [User awareness in the authenticity of mobile Quran apps.](#) In: **Symposium Kebangsaan Sistem Autentikasi Al-Quran dan Al-Hadith (SAHIH 2016)**
- 2016 [Electrocardiogram identification: Use a simple set of features in QRS complex to identify individuals.](#) In: **12th International Conference on Computing and Information Technology (IC2 IT)**
- 2015 [An evaluation of mobile Quran apps.](#) In: **CHIuXiD 2015 Conference, ACM In Coop International Conference in HCI and UX, Bandung, 8-10 April 2015**
- 2015 [A framework for non-contact ECG signal detection device on smart chair and its implementation.](#) In: **Second International Conference on Advanced Data and Information Engineering (DaEng-2015)**
- 2015 [Mobile Quran app security vulnerabilities.](#) In: **5th International Conference on Computing and Informatics, ICOCI 2015**
- 2015 [A novel algorithm to detect a QPSK signal with the minimum number of samples.](#) In: **Fourth INNS Symposia Series on Computational Intelligence in Information Systems (INNS-CIIS 2014)**
- 2015 [An ensemble CRT, RVFLN, SVM method for estimating Propane Spot Price.](#) In: **Fourth INNS Symposia Series on Computational Intelligence in Information Systems (INNS-CIIS 2014)**
- 2015 [Comparing performances of neural network models built through transformed and original data.](#) In: **International Conference on Computer, Communications, and Control Technology (I4CT), 2015**
- 2015 [A review of the applications of bio-inspired flower pollination algorithm.](#) In: **2015 International Conference on Soft Computing and Software Engineering (SCSE'15)**
- 2014 [Performance analysis of cloud-based cve communication architecture in comparison with the traditional client server, p2p and hybrid models.](#) In: **5th International Conference on Information and Communication Technology for The Muslim World (ICT4M 2014)**
- 2014 [Investigating how the sources of online audio Qur'an empower listeners.](#) In: **The 5th International Conference on Information and Communication Technology for The Muslim World (ICT4M 2014)**
- 2014 [Text normalization algorithm for facebook chats in Hausa language.](#) In: **Information and Communication Technology for The Muslim World (ICT4M), 2014 The 5th International Conference on**
- 2014 [Automatic face reconstruction system.](#) In: **2014 6th International Conference on Computer Science and Information Technology (CSIT)**
- 2014 [Investigating rendering speed and download rate of three-dimension \(3D\) mobile map intended for navigation aid using genetic algorithm.](#) In: **The First International Conference on Soft Computing and Data Mining (SCDM-2014)**
- 2014 [Comparing performances of Markov Blanket and Tree Augmented Naïve-Bayes on the IRIS dataset.](#) In: **International MultiConference of Engineers and Computer Scientists 2014 (IMECS 2014)**

- 2014 [Throughput analysis of TCP congestion control algorithms in a cloud based collaborative virtual environment.](#) In: **2014 First International Conference on Systems Informatics, Modelling and Simulation**
- 2014 [Investigating the act of deception in online-Islamic content.](#) In: **2014 3rd International Conference on User Science and Engineering (i-USER)**
- 2014 [Exploring the challenges of MP3 audio steganography.](#) In: **2nd International Conference on Advanced Computer Science Applications and Technologies (ACSAT2013)**
- 2014 [An empirical study of customers' adoption of mobile money transfer services in Somaliland.](#) In: **2014 The 5th International Conference on Information & Communication Technology for the Muslim World (ICT4M 2014)**
- 2014 [RFID based smart hospital management system: A conceptual framework.](#) In: **2014 The 5th International Conference on Information and Communication Technology for The Muslim World (ICT4M)**
- 2014 [Perceptions of library and information science community towards open source software adoption in libraries of Oman.](#) In: **The 5th International Conference on Information and Communication Technology for The Muslim World (ICT4M 2014)**
- 2014 [Optimization of neural network through genetic algorithm searches for the prediction of international crude oil price based on energy products prices.](#) In: **CF '14 Proceedings of the 11th ACM Conference on Computing Frontiers**
- 2014 [Modified neural network activation function.](#) In: **4th International Conference on Artificial Intelligence with Applications in Engineering and Technology (ICAJET 2014)**
- 2013 [Optimizing three-dimensional \(3D\) map view on mobile devices as navigation aids using artificial neural network.](#) In: **2013 International Conference on Advanced Computer Science Applications and Technologies (ACSAT)**
- 2013 [Automatic interactive security monitoring system.](#) In: **2013 International Conference on Research and Innovation in Information Systems (ICRIIS)**
- 2013 [Investigating the dynamics of watermark features in audio streams.](#) In: **2013 IEEE Symposium on Industrial Electronics & Applications (ISIEA)**
- 2013 [Intelligent system for predicting the price of natural gas based on non-oil commodities.](#) In: **2013 IEEE Symposium on Industrial Electronics & Applications (ISIEA2013)**
- 2013 [3D mobile map visualization concept for remote rendered dataset.](#) In: **2nd International Conference on Advanced Computer Science Applications and Technologies (ACSAT2013)**
- 2013 [Investigating digital watermark dynamics on carrier file by feed-forward neural network.](#) In: **2nd International Conference on Advanced Computer Science Applications and Technologies (ACSAT2013)**

**Book
Book Section**

- 2019 [A theoretical framework for big data analytics based on computational intelligent algorithms with the potential to reduce energy consumption.](#) In: **Green Energy and Technology** Springer Verlag . ISBN 978-3-319-69889-2 , pp.1-20
- 2019 [Bio-inspired algorithm optimization of neural network for the prediction of Dubai crude oil price.](#) In: **Lecture Notes in Electrical Engineering** Springer Nature Singapore . ISBN 978-3-030-17794-2 , pp.151-162
- 2019 [Estimation of Middle-East oil consumption using hybrid meta-heuristic algorithms.](#) In: **Lecture Notes in Electrical Engineering** Springer Nature Singapore . ISBN 978-981-13-1797-2 , pp.139-150
- 2018 [A new static cost-effective parameter for interconnection networks of massively parallel computer systems.](#) In: **Soft computing in data analytics** Springer Nature . ISBN 978-981-13-0513-9 / 978-981-13-0514-6 , pp.147-155
- 2015 [Spread spectrum audio watermarking using vector space projections.](#) In: **Advances in Intelligent Informatics** Springer International Publishing . ISBN 978-3-319-11218-3 , pp.297-307
- 2015 [Fundamentals of computer networks: wired/wireless.](#) In: **Internet Applications** IIUM Press . ISBN 9789674183134 , pp.1-15
- 2015 [Multimedia security and the internet.](#) In: **Internet Applications** IIUM Press . ISBN 9789674183134 , pp.48-62
- 2015 [Fundamentals of multimedia.](#) In: **Multimedia and Its Applications** IIUM Press . ISBN 978-967-418-312-7 , pp.1-23
- 2015 [Text in multimedia.](#) In: **Multimedia and its applications** IIUM Press . ISBN 978-967-418-312-7 , pp.64-72
- 2015 [Practices of handling audio.](#) In: **Multimedia and its applications** IIUM Press . ISBN 978-967-418-312-7 , pp.126-138
- 2015 [Video.](#) In: **Multimedia and its applications** IIUM Press . ISBN 978-967-418-312-7 , pp.139-148
- 2014 [Usability evaluation of hospital websites in Nigeria: what affects end users' preferences?.](#) In: **HCI International 2014 - Posters' extended abstracts: International Conference, HCI International 2014, Heraklion, Crete, Greece, June 22-27, 2014. Proceedings, Part II** Springer International Publishing . ISBN 978-3-319-07853-3 (P), 978-3-319-07854-0 (O) , pp.430-434
- 2014 [Kernel functions for the support vector machine: comparing performances on crude oil price data.](#) In: **Recent advances on soft computing and data mining: proceedings of The First International Conference on Soft Computing and Data Mining (SCDM-2014) Universiti Tun Hussein Onn Malaysia, Johor, Malaysia June 16th-18th, 2014** Springer International Publishing . ISBN 9783319076911 , pp.273-281
- 2013 [A framework for selecting the optimal technique suitable for application in a data mining task.](#) In: **Future information technology** SpringerLink . ISBN 978-3-642-40860-1 (P), 978-3-642-40861-8 (O) , pp.163-169
- 2011 [Web application development process.](#) In: **The Web : Its Utilisation, Evaluation and Security** IIUM Press . ISBN 978-967-418-112-3 , pp.189-197