

# IMAD FAKHRI TAHA ALYASEEN



- KULLIYAH OF INFORMATION AND COMMUNICATION TECHNOLOGY
- IIUM Gombak Campus
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## ACADEMIC QUALIFICATION

- Computer Science
- Computer Science
- Mathematics

## TEACHING RESPONSIBILITIES

CRYPTOGRAPHY	2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
DATA STRUCTURE & ALGORITHM	2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016
DATA STRUCTURES AND ALGORITHMS I	2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
FINAL YEAR PROJECT	2010/2011 2011/2012 2012/2013 2013/2014 2014/2015
INDUSTRIAL ATTACHMENT	2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018
NEURAL NETWORKS	2010/2011
PRINCIPLES OF ARTIFICIAL INTELLIGENCE	2011/2012 2012/2013

## RESEARCH PROJECTS

### Completed

- 2016 - 2018** Analysis of ZUC Cipher in Mobile Communication
- 2015 - 2018** AN EFFICIENT MODEL FOR PROCESSING SKYLINE QUERIES IN INCOMPLETE AND UNCERTAIN DATABASES
- 2015 - 2019** An Online Computational Modeling for EcoS Feature Selection in Traffic Volumes Prediction
- 2014 - 2017** Test Automation Model for Conformance of Mobile Applications Life Cycle
- 2014 - 2016** Computational Modeling for Analyzing the Effect of Quranic Recitations on Human Emotions

- 2014 - 2016** Anti-Malware for Mobilephones
- 2013 - 2017** Regulated Splicing Systems and Formal Models for Food Authentication
- 2013 - 2016** Visualization of Emotional Dynamic on Brain Topology using Neural Inspired Computational Model
- 2013 - 2017** New Algorithm for Realtime OLAP Scheme over Multicore Distributed Processing to Serve Warehouse Data Mining
- 2012 - 2015** A New Spatial Domain Watermarking Technique Based On Multiple Intermediate Significant Bits
- 2011 - 2013** RU 2011: Block Ciphers: Analysis and Design
- 2010 - 2012** The use of Digital Watermarking to protect Quran & Sunna

### **In Progress**

- 2016 - Present** Identifying and Profiling children with Learning disabilities using Algorithmic Computational Neuro-Physiological (CNP) Model
- 2016 - Present** Development of an Evolving Neuro-Cognitive Computational Model Based on Event-Related Potentials for Healthy Lifestyle Profiling
- 2016 - Present** Development of an Evolving Neuro-Cognitive Computational Model Based on Event-Related Potentials for Healthy Lifestyle Profiling
- 2016 - Present** Analysis of ZUC Cipher in Mobile Communication
- 2015 - Present** An Online Computational Modeling for EcoS Feature Selection in Traffic Volumes Prediction
- 2008 - Present** Intelligent Cyberspace Security

## **PUBLICATIONS**

### **Article**

- 2020** [Linear and nonlinear stochastic distribution for consensus problem in multi-agent systems.](#) Linear and nonlinear stochastic distribution for consensus problem in multi-agent systems , 32 (1) pp.261-277
- 2020** [Image De-Noising techniques: a comparative study.](#) Journal of Advanced Computer Science And Technology Research , 10 (2) pp.21-37
- 2019** [Editorial: mobile networks in the era of big data.](#) Mobile Networks and Applications , 24 (4) pp.1135-1138
- 2019** [Increasing the runs in compressed data using a dedicated move to front algorithm.](#) Journal of Computational and Theoretical Nanoscience , 16 (3) pp.903-906

- 2019** [Optimal path planning for urban vehicles using Internet of Things: a new navigation perspective.](#) Journal of Computational and Theoretical Nanoscience , 16 (3) pp.1074-1080
- 2019** [Detection of cracked digitized paintings and manuscripts based on threshold techniques.](#) Journal of Computational and Theoretical Nanoscience , 16 (3) pp.1108-1113
- 2019** [The influence of Internet and social media on purchasing decisions in Indonesia and a comparison between Indonesia and Kuwait.](#) Journal of Computational and Theoretical Nanoscience , 16 (3) pp.1029-1034
- 2019** [Theoretical review of routing protocols used for wireless community networks.](#) Journal of Computational and Theoretical Nanoscience , 16 (9) pp.3656-3662
- 2019** [A special issue on disruptive technologies: shaping the future of the industry.](#) Journal of Computational and Theoretical Nanoscience , 16 (3) pp.799-799(1)
- 2019** [Consensus algorithms blockchain: a comparative study.](#) International Journal on Perceptive and Cognitive Computing (IJPC) , 5 (2) pp.66-71
- 2019** [The scalability challenge of the blockchain: a review.](#) Journal of Advanced Computer Science and Technology Research , 9 (2) pp.13-19
- 2019** [Emerging solutions in big data and cloud technologies for mobile networks.](#) Mobile Networks and Applications , 24 (3) pp.1015-1017
- 2019** [Neural network and principle component analysis based numerical data analysis for stock market prediction with machine learning techniques.](#) Journal of Computational and Theoretical Nanoscience , 16 (3) pp.806-812
- 2019** [Identifying skylines in cloud databases with incomplete data.](#) Journal of Information and Communication Technology , 18 (1) pp.19-34
- 2018** [Improving the cost factor of DLBCA lightweight block cipher algorithm.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (2) pp.786-791
- 2018** [The influence of internet and social media on purchasing decisions in Kuwait.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (2) pp.792-797
- 2018** [A novel secret key generation based on image link.](#) International Journal of Engineering and Technology , 7 (2.5) pp.23-26
- 2018** [A scientific review of soft-computing techniques and methods for stock market prediction.](#) International Journal of Engineering and Technology , 7 (2.5) pp.27-31
- 2018** [Analysis the components of SNOW 3G and ZUC ciphers in mobile systems.](#) International Journal of Engineering & Technology , 7 (4.15) pp.519-523
- 2018** [On randomness of compressed data using non-parametric randomness tests.](#) Bulletin of Electrical Engineering and Informatics , 7 (1) pp.63-69
- 2018** [Implementation of dynamic fuzzy logic control of traffic light with accident detection and action system using iTraffic simulation Simulation.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.100-109

- 2018** [Multi-level of feature extraction and classification for X-Ray medical image.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.154-167
- 2018** [Technical approach in text mining for stock market prediction: a systematic review.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (2) pp.770-777
- 2018** [A model for skyline query processing in a partially complete database.](#) Advanced Science Letters , 24 (2) pp.1339-1343
- 2018** [Using pre-determined patterns to analyze the common behavior of compressed data and their compressibility appeal.](#) International Journal of Engineering & Technology , 7 (2 (Special Issue 34)) pp.34-38
- 2018** [Detection and restoration of cracked digitized paintings and manuscripts using image processing.](#) International Journal of Engineering & Technology , 7 (2.34) pp.39-43
- 2018** [A review of steganographic methods and techniques.](#) International Journal on Perceptive and Cognitive Computing (IJPCC) , 4 (1) pp.1-6
- 2017** [A web and software-based approach blending social networks for online Qur'anic Arabic learning.](#) The International Arab Journal of Information Technology , 14 (1) pp.80-90
- 2017** [The influence of internet and social media on purchasing decisions in Egypt and a comparison between Egypt and Kuwait.](#) International Journal of Computer Applications , 178 (5) pp.26-32
- 2017** [Input significance analysis: feature ranking through synaptic weights manipulation for ANNs-based classifiers.](#) Journal of Fundamental and Applied Sciences , 9 (4S) pp.639-662
- 2017** [Input significance analysis: Feature selection through synaptic weights manipulation for EFuNNs classifier.](#) Journal of Fundamental and Applied Sciences , 9 (4S) pp.681-709
- 2017** [Reach a nonlinear consensus for MAS via doubly stochastic quadratic operators.](#) International Journal of Control , 90 (7) pp.1-29
- 2017** [Processing skyline queries in incomplete database: issues, challenges and future trends.](#) Journal of Computer Science , 13 (11) pp.590-601
- 2017** [Analyzing brainwaves while listening to Quranic recitation compared with listening to music based on EEG signals.](#) International Journal on Perceptive and Cognitive Computing (IJPCC) , 3 (1) pp.1-5
- 2017** [A symmetric cryptosystem based on nondeterministic finite automata.](#) Journal of Theoretical and Applied Information Technology ( JATIT ) , 95 (6) pp.1489-1498
- 2017** [A comparative performance analysis of modified Dömösi's cryptosystem and data encryption standard.](#) International Journal on Perceptive and Cognitive Computing (IJPCC) , 3 (1) pp.11-14
- 2017** [Detection and restoration of cracked digitized paintings and manuscripts using image processing - a survey.](#) International Journal on Perceptive and Cognitive Computing , 3 (2) pp.1-6

- 2016** [Analysis randomness properties of basic components of SNOW 3G cipher in mobile systems.](#) International Journal on Perceptive and Cognitive Computing , 2 pp.12-16
- 2016** [Lightweight block cipher algorithms: review paper.](#) International Journal of Enhanced Research in Science, Technology & Engineering , 5 (5) pp.136-143
- 2016** [Emotion detection using physiological signals EEG & ECG.](#) International Journal of Advancements in Computing Technology (IJACT) , 8 (3) pp.103-112
- 2016** [Data recovery and business continuity in cloud computing: a review of the research literature.](#) International Journal of Advancements in Computing Technology(IJACT) , 8 (5) pp.80-94
- 2016** [Security and performance analysis of SCDSP.](#) International Journal on Perceptive and Cognitive Computing (IJPCC) , 2 (1) pp.27-33
- 2016** [Performance and security improvements of Dömösi's cryptosystem.](#) International Journal of Applied Mathematics and Statistics , 55 (2) pp.32-45
- 2016** [An overview of cryptosystems based on finite automata.](#) Journal of Advanced Review on Scientific Research , 27 (1) pp.1-7
- 2016** [A framework for evaluating skyline queries over incomplete data.](#) Procedia Computer Science , 94 pp.191-198
- 2016** [A new block cipher based on finite automata systems.](#) International Journal on Perceptive and Cognitive Computing (IJPCC) , 2 (1) pp.23-26
- 2015** [A new design of cryptographic hash function: gear.](#) International Journal on Perceptive and Cognitive Computing (IJPCC) , 1 (1) pp.29-34
- 2015** [A new design of cryptographic hash function: gear.](#) International Journal on Perceptive and Cognitive Computing (IJPCC) , 1 (1) pp.29-34
- 2015** [CERT team involving GEs structured.](#) International Journal of Innovative Research in Engineering & Multidisciplinary Physical Sciences , 3 (3) pp.12-26
- 2015** [CERT Technologies.](#) International Journal of Innovation in Science and Mathematics , 3 (6) pp.275-282
- 2015** [An adequate approach to image retrieval based on local level feature extraction .](#) Mehran University Research Journal of Engineering & Technology , 34 (4) pp.337-348
- 2015** [SCDSP: a novel stream cipher with dynamic structure and parameters.](#) International Journal of Advancements in Computing Technology (IJACT) , 7 (5) pp.49-56
- 2015** [Blogging: a new platform for spreading rumors!.](#) CCIT Journal , 9 (1) pp.71-76
- 2014** [Key-dependent s-box in lightweight block ciphers.](#) Journal of Theoretical and Applied Information Technology , 62 (2) pp.554-559
- 2014** [Kuwait government entities e-business continuity and disaster recovery plan.](#) Journal of Advanced Computer Science and Technology Research (JACSTR) , 4 (3) pp.62-75

- 2014** [Comparative study on 4G/LTE cryptographic algorithms based on different factors.](#) International Journal of Computer Science and Telecommunications , 5 (7) pp.7-10
- 2013** [EEG emotion recognition based on the dimensional models of emotions.](#) Procedia - Social and Behavioral Sciences , 97 pp.30-37
- 2013** [A new algorithm for human face detection using skin color tone.](#) IOSR-Journal of Computer Engineering , 11 (6) pp.31-38
- 2013** [MOIM: a novel design of cryptographic hash function.](#) International Journal of Computer Engineering & Technology (IJECT) , 4 (4) pp.1-19
- 2013** [Hash function of finalist SHA-3: analysis study.](#) International Journal of Advanced Computer Science and Information Technology , 2 (2) pp.1-12
- 2013** [Evaluation of usability problems of labor portal in Saudi Arabia.](#) International Journal of Advanced Computer Science and Information Technology , 2 (1) pp.14-25
- 2013** [Broad view of cryptographic hash functions.](#) International Journal of Computer Science Issues (IJCSI) , 10 (4) pp.239-246
- 2013** [Affective computing model using source-temporal domain.](#) Procedia - Social and Behavioral Sciences , 97 pp.54-62
- 2013** [The ethical dilemma of software piracy: an inquiry from an Islamic perspective.](#) Creative Communication and Information Technology , 7 (1) pp.59-76
- 2013** [Achieving security by combining Huffman and SLSB algorithms.](#) Journal of Advanced Computer Science and Technology Research (JACSTR) , 3 (4) pp.163-172
- 2013** [Comparative study between traffic control methods Using simulation software .](#) International Journal of Machine Learning and Computing (IJMLC) , 3 (5) pp.424-429
- 2013** [Emotion recognition model using source-temporal features and fuzzy.](#) Lecture Notes in Computer Science (LNCS) , 8226 (1) pp.577-584
- 2012** [Rational drug design using genetic algorithm: case of malaria disease.](#) Journal of Emerging Trends in Computing and Information Sciences , 3 (7) pp.1093-1102
- 2012** [Protection of the texts using Base64 and MD5.](#) Journal of Advanced Computer Science and Technology Research(JACSTR) , 2 (1) pp.22-34
- 2012** [Achieving security for images by LSB and MD5.](#) Journal of Advanced Computer Science and Technology Research(JACSTR) , 2 (3) pp.127-139
- 2012** [Designing a smart city in Kuwait: an initial study.](#) Journal of Advanced Computer Science and Technology Research (JACSTR) , 2 (3) pp.116-126
- 2012** [Smart cities: a survey.](#) Journal of Advanced Computer Science and Technology Research (JACSTR) , 2 (2) pp.79-90
- 2012** [Lightweight block ciphers: A comparative study.](#) Journal of Advanced Computer Science and Technology Research(JACSTR) , 2 (4) pp.159-165

- 2011 [A practical method for the analysis of genetic algorithms.](#) Journal of Advanced Computer Science and Technology Research(JACSTR) , 1 ( ) pp.1-9
- 2011 [Security threats of finger print biometric in network system environment.](#) Journal of Advanced Computer Science and Technology Research (JACSTR) , 1 (1) pp.36-51
- 2011 [An improved genetic algorithm for solving the multiprocessor scheduling problem.](#) Australian Journal of Basic and Applied Sciences
- 2011 [Frequencies determination of characters for Bahasa Melayu: results of preliminary investigation .](#) Procedia - Social and Behavioral Sciences , 27 pp.233-240
- 2006 [Genetic-local hybrid optimizer for solving advance layout problem.](#) Journal of Al Rafidain University College , 8 (19) pp.87-98
- 2006 [Comparison between Lamarckian Evolution and Baldwin Evolution of neural network.](#) Journal of Al Rafidain University College , 8 (19) pp.217-232
- 2006 [New statistical Binary Random Test.](#) Journal of Al Rafidain university college , 8 (18) pp.81-101
- 2004 [Protecting an Internet Web File using Java.](#) Journal of Al Rafidain University College- Iraq , 7 (15) pp.51-60

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

- 2019 [XMIAR: X-ray medical image annotation and retrieval.](#) In: **Computer Vision Conference, CVC 2019**
- 2018 [Scientific research in view of Quran and the creation of Allah s.w.t..](#) In: **International Conference on Computer Assisted Systems in Health (CASH 2018)**
- 2018 [Disaster recovery in single-cloud and multi-cloud environments: Issues and challenges.](#) In: **The 4th IEEE International Conference on Engineering Technologies and Applied Sciences (ICETAS)**
- 2018 [Scientific research in view of Quran and the creation of Allah s w t.](#) In: **Seminar of Information Retrieval and knowledge management SIRKM 2018**
- 2018 [Structure of research proposal.](#) In: **Postgraduate Development Program (Package 2)**
- 2018 [Cryptocurrency vs fiat currency: Architecture, algorithm, cashflow & ledger technology on emerging economy subtitle: The influential facts of cryptocurrency and fiat currency.](#) In: **2018 International Conference on Information and Communication Technology for the Muslim World (ICT4M)**
- 2017 [Analysis of confidentiality algorithms in different mobile generations.](#) In: **1st International Conference of Cihan University-Erbil on Communication Engineering and Computer Science (CIC-COCOS'17)**
- 2017 [A practical and interactive web-based software for online Qur'anic Arabic learning.](#) In: **6th International Conference on Information and Communication Technology for the Muslim World (ICT4M 2016)**
- 2017 [Skyline query processing for incomplete data in cloud environment.](#) In: **The 6th International Conference on Computing and Informatics, ICOCI 2017**

- 2016 [Mobile technology generations and cryptographic algorithms: analysis study.](#) In: **2015 4th International Conference on Advanced Computer Science Applications and Technologies (ACSAT 2015)**
- 2016 [Automatic emotion recognition based on EEG and ECG signals while listening to quranic recitation compared with listening to music.](#) In: **6th International Conference on Information and Communication Technology for the Muslim World (ICT4M 2016)**
- 2016 [Computational properties of Watson-Crick context-free grammars.](#) In: **2015 4th International Conference on Advanced Computer Science Applications and Technologies (ACSAT 2015)**
- 2016 [A practical and interactive web-based software for online Qur'anic Arabic learning.](#) In: **2016 6th International Conference on Information and Communication Technology for The Muslim World (ICT4M 2016)**
- 2016 [A performance improvement of Dömösi's cryptosystem.](#) In: **Progress in Applied Mathematics in Science and Engineering 2015**
- 2016 [Enhancing lightweight block cipher algorithm OLBCA through decreasing cost factor.](#) In: **4th International Conference on Advanced Computer Science Applications and Technologies, ACSAT 2015**
- 2016 [EEG-based emotion recognition while listening to Quran recitation compared with relaxing music using Valence-arousal model.](#) In: **2015 4th International Conference on Advanced Computer Science Applications and Technologies**
- 2016 [Statistical analysis of the eSTREAM competition winners.](#) In: **2015 4th International Conference on Advanced Computer Science Applications and Technologies (ACSAT 2015)**
- 2016 [Statistical approach for a complex emotion recognition based on EEG features.](#) In: **2015 4th International Conference on Advanced Computer Science Applications and Technologies (ACSAT 2015)**
- 2015 [A performance improvement of Domosi's cryptosystem.](#) In: **2015 Progress in Applied Mathematics in Science and Engineering (PIAMSE)**
- 2015 [Enhancing lightweight block cipher algorithm OLBCA through decreasing cost factor.](#) In: **4th International Conference on Advanced Computer Science Applications and Technologies (ACSAT 2015)**
- 2014 [HISEC: a new lightweight block cipher algorithm.](#) In: **The 7th International Conference on Security of Information and Networks (SIN'14)**
- 2014 [Feature ranking through weights manipulations for artificial neural networks-based classifiers.](#) In: **2014 Fifth International Conference on Intelligent Systems, Modelling and Simulation (ISMS 2014)**
- 2014 [Feature ranking through weights manipulations for artificial neural networks-based classifiers.](#) In: **2014 Fifth International Conference on Intelligent Systems, Modelling and Simulation (ISMS 2014)**
- 2014 [A study on the effects of EEG and ECG signals while listening to Qur'an recitation.](#) In: **2014 5th International Conference on Information and Communication Technology for The Muslim World (ICT4M 2014)**



- 2014 [A study on the effects of EEG and ECG signals while listening to Qur'an recitation.](#) In: 2014 the 5th International Conference on Information and Communication Technology for the Muslim World, ICT4M 2014
- 2014 [Design and analysis of a new hash function gear.](#) In: 7th International Conference on Security of Information and Networks (SIN'14)
- 2014 [A cognitive-affective measurement model based on the 12-point affective circumplex.](#) In: 2014 3rd International Conference on Advanced Computer Science Applications and Technologies
- 2014 [A survey of intrusion detection system using case study Kuwait governments entiteis.](#) In: Advanced Computer Science Applications and Technologies (ACSAT), 2014 3rd International Conference
- 2014 [CMAC-based computational model of affects \(CCMA\) for profiling emotion from EEG signals.](#) In: 5th International Conference on Information and Communication Technology for The Muslim World (ICT4M 2014)
- 2014 [Comparative study of some symmetric ciphers in mobile systems.](#) In: 5th International Conference on Information and Communication Technology for The Muslim World (ICT4M 2014)
- 2014 [Brain & heart from computer science perspective.](#) In: 3rd International Conference on Advanced Computer Science Applications and Technologies - ACSAT2014
- 2014 [OLBCA: a new lightweight block cipher algorithm.](#) In: 3rd International Conference on Advanced Computer Science Applications and Technologies - ACSAT2014
- 2014 [Security risk analysis used by Kuwait government sectors .](#) In: 3rd International Conference on Advanced Computer Science Applications and Technologies - ACSAT2014
- 2014 [Cyber-attacks detection & protection in Kuwait government sectors.](#) In: 3rd International Conference on Advanced Computer Science Applications and Technologies - ACSAT2014
- 2014 [A study on the effects of EEG and ECG signals while listening to Qur'an recitation.](#) In: 5th International Conference on Information and Communication Technology for The Muslim World (ICT4M 2014)
- 2014 [Dynamic linear feedback shift registers: a review.](#) In: 5th International Conference on Information and Communication Technology for The Muslim World (ICT4M 2014)
- 2013 [Similarities and dissimilarities between character frequencies of written text of Melayu, English and Indonesian languages .](#) In: 2103 International Conference of Advanced Computer Science Applications and Technologies (ACSAT)
- 2013 [SVG and Arabic font challenges and improvements.](#) In: 5th International Conference on Information and Communication Technology for the Muslim World
- 2013 [A new fragile digital watermarking technique for a PDF digital Holy Quran.](#) In: 2013 International Conference on Advanced Computer Science Applications and Technologies (ACSAT)

- 2013 [Setting-up a sulh-based, community mediation-type of online dispute resolution \(ODR\) in Malaysia.](#) In: **5th International Conference on Information and Communication Technology for the Muslim World**
- 2013 [Protection of the digital Holy Quran hash digest by using cryptography algorithms.](#) In: **2nd International Conference on Advanced Computer Science Applications and Technologies (ACSAT2013)**
- 2013 [Protection of the digital holy Quran using SAB hash function.](#) In: **International Conference on Islamic Applications in Computer Science and Technologies**
- 2013 [e-Business continuity and disaster recovery plan case study: Kuwait government entities \(GEs\).](#) In: **2nd International Conference on Advanced Computer Science Applications and Technologies (ACSAT2013)**
- 2013 [Improving the security of LBlock lightweight algorithm using bit permutation.](#) In: **2nd International Conference on Advanced Computer Science Applications and Technologies (ACSAT2013)**
- 2013 [Improving PRESENT lightweight algorithms.](#) In: **2nd International Conference on Advanced Computer Science Applications and Technologies (ACSAT2013)**
- 2013 [Cryptographic hash function: A high level view.](#) In: **International Conference on Informatics and Creative Multimedia (ICICM), 2013**
- 2013 [Joux multicollisions attack in sponge construction.](#) In: **6th International Conference on Security of Information and Networks**
- 2013 [Multicollisions in sponge construction.](#) In: **International Conference on Informatics and Creative Multimedia (ICICM), 2013**
- 2012 [Protection of text using SHA1 and Base64.](#) In: **3rd International Conference on Cryptology and Computer Security 2012**
- 2012 [Protection of integrity and ownership of pdf documents using invisible signature.](#) In: **14th International Conference on Computer Modelling and Simulation (UKSim)**
- 2012 [Traffic management system based on wsn in Kuwait: an initial design.](#) In: **International Conference on Informatics and Applications 2012**
- 2012 [Comparative study on content-based image retrieval CBIR\).](#) In: **International Conference on Advanced Computer Science Applications and Technologies**
- 2012 [Quality evaluation of "safeer" portal for Saudi students studying abroad .](#) In: **International Conference on Advanced Computer Science Applications and Technologies**
- 2012 [Security of present s-box.](#) In: **International Conference on Advanced Computer Science Applications and Technologies**
- 2012 [An improved full search block matching algorithm for imaging applications.](#) In: **International Conference on Computer and Communication Engineering (ICCCE 2012)**

- 2012 [An anatomy of IGP and BGP routing protocols.](#) In: **International Conference on Advanced Computer Science Applications and Technologies**
- 2012 [Comparison and analysis study of sha-3 finalists.](#) In: **International Conference on Advanced Computer Science Applications and Technologies**
- 2011 [Frequencies determination of characters for Bahasa Melayu: results of preliminary investigation.](#) In: **12th Conference of the Pacific Association for Computational Linguistics (PACLING 2011)**
- 1999 [A genetic algorithm for the cryptanalysis of Chor-Rivest knapsack public key cryptosystem \(PKC\).](#) In: **Third International Conference on Computational Intelligence and Multimedia Applications. ICCIMA'99**

#### Book

- 2017 [Dynamic fuzzy logic traffic light integrated system with accident detection and action.](#) IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-673-9
- 2017 [Minimum capabilities and requirements for establishing a national cert for AGC.](#) IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-682-1
- 2017 [Effectiveness and performance of e-government in Saudi Arabia.](#) IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-680-7
- 2017 [Enhancement of lightweight block cipher algorithms.](#) IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-695-1
- 2017 [Protection of the digital holy Quran using IT techniques.](#) IIUM Press, International Islamic University Malaysia . ISBN 978-967-418-789-7
- 2011 [Computer applications: theories and applications.](#) IIUM Press . ISBN 9789674181079
- 2011 [Introduction of computer systems and applications.](#) IIUM Press . ISBN 978-967-418-085-0
- 2011 [Cryptography: past, present and future.](#) IIUM Press . ISBN 9789674181130

#### Book Section

- 2015 [Cryptographic hash function: a high level view.](#) In: **Threat Detection and Countermeasures in Network Security** IGI Global . ISBN 978-1-4666-6583-5 , pp.80-94
- 2015 [Cryptographic hash function: a high level view.](#) In: **Threat Detection and Countermeasures in Network Security** IGI Global . ISBN 978-1-4666-6583-5 , pp.80-94
- 2011 [Introduction.](#) In: **Cryptography: past, present and future** IIUM Press . ISBN 9789674181130 , pp.65-72
- 2011 [The use of genetic algorithm in autonomous robot navigation .](#) In: **Computer applications: theories and applications** IIUM Press . ISBN 978-967-418-107-9 , pp.3-13
- 2011 [Message Digest \(MDx\) family.](#) In: **Cryptography: past, present and future** IIUM Press . ISBN 9789674181130 , pp.73-80

- 2011 [In-silico drug target design & its approaches](#) . In: **Computer Applications: Theories and Applications** IJUM Press . ISBN 978-967-418-107-9 , pp.15-26
- 2011 [SHA family hash function](#) . In: **Cryptography: past, present and future** IJUM Press . ISBN 9789674181130 , pp.81-87
- 2011 [RIPEMD and Chameleon hash function](#) . In: **Cryptography: past, present and future** IJUM Press . ISBN 9789674181130 , pp.89-96
- 2011 [Molecular docking](#) . In: **Computer applications: Theories and applications** IJUM Press . ISBN 978-967-418-107-9 , pp.37-44
- 2011 [The use of genetic algorithm in improving medical image segmentation techniques](#) . In: **Computer applications: Theories and applications** IJUM Press . ISBN 978-967-418-107-9 , pp.45-55
- 2011 [Rivest-Shamir-Adleman \(RSA\)](#) . In: **Cryptography: past, present and future** IJUM Press . ISBN 9789674181130 , pp.99-105
- 2011 [Protection mechanisms using MD5 and Base64](#) . In: **Computer Applications: Theories and Applications** IJUM Press . ISBN 978-967-418-107-9 , pp.59-69
- 2011 [Developed system for Quran protection using MD5 and Base64](#) . In: **Computer applications: Theories and applications** IJUM Press . ISBN 978-967-418-107-9 , pp.71-84
- 2011 [Protection mechanisms using LSB and MD5](#) . In: **Computer applications: Theories and applications** IJUM Press . ISBN 978-967-418-107-9 , pp.85-98
- 2011 [Cryptanalysis of RSA](#) . In: **Cryptography: past, present and future** IJUM Press . ISBN 9789674181130 , pp.107-112
- 2011 [Developed system for Quran protection using LSB replacement and MD5](#) . In: **Computer applications: Theories and applications** IJUM Press . ISBN 978-967-418-107-9 , pp.99-109
- 2011 [Digital signature algorithm](#) . In: **Cryptography: past, present and future** IJUM Press . ISBN 9789674181130 , pp.113-115
- 2011 [Background of zero-knowledge proof](#) . In: **Cryptography: past, present and future** IJUM Press . ISBN 9789674181130 , pp.117-120
- 2011 [Interactive proof systems](#) . In: **Cryptography: past, present and future** IJUM Press . ISBN 9789674181130 , pp.121-126
- 2011 [Zero-knowledge-proof](#) . In: **Cryptography: past, present and future** IJUM Press . ISBN 9789674181130 , pp.127-132
- 2011 [Feige-Fiat-Shamir identification scheme](#) . In: **Cryptography: past, present and future** IJUM Press . ISBN 9789674181130 , pp.133-138
- 2011 [Introduction](#) . In: **Cryptography: past, present and future** IJUM Press . ISBN 9789674181130 , pp.3-9
- 2011 [Shamir's threshold scheme](#) . In: **Cryptography: past, present and future** IJUM Press . ISBN 9789674181130 , pp.147-150

- 2011 [Blakely's secret sharing scheme.](#) In: **Cryptography: past, present and future** IIUM Press . ISBN 9789674181130 , pp.151-154
- 2011 [The study of multicast listener discovery.](#) In: **Advances in mobility management for IP networks** IIUM Press . ISBN 9789674181406 , pp.27-31
- 2011 [MIPv6 based approaches for mobility management.](#) In: **Advances in mobility management for IP networks** IIUM Press . ISBN 9789674181406 , pp.32-35
- 2011 [Qualitative study of mobility management approaches.](#) In: **Advances in mobility management for IP networks** IIUM Press . ISBN 9789674181406 , pp.48-52
- 2011 [Polyalphabetic substitution cipher.](#) In: **Cryptography: past, present and future** IIUM Press . ISBN 9789674181130 , pp.17-23
- 2011 [Introduction.](#) In: **Cryptography: past, present and future** IIUM Press . ISBN 9789674181130 , pp.141-146
- 2011 [Internal structure of computer systems.](#) In: **Introduction of computer systems and applications** IIUM Press . ISBN 9789674180850 , pp.1-8
- 2011 [Interfaces and protocols.](#) In: **Introduction of computer systems and applications** IIUM Press . ISBN 9789674180850 , pp.9-16
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