Prof. Mouhammd Alkasassbeh

Cybersecurity Department
King Hussein School of Computing Sciences, Princess Sumaya University for Technology, Amman, Jordan

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Personal Statement

knowledgeable and motivated IT Professor with significant academic training. motivated to inspire students to succeed both academically and personally. Firm, optimistic leader who has excellent relationships with professors, administration, and students. successful in choosing and implementing the top instruction materials combined with special experience and knowledge. a careful, committed role model who is competent in most subject areas. always working to provide a colorful and interesting learning environment. Exceptional proven history of research success with multiple published articles.

Accomplishments

A proposed Darknet Traffic Classification System Based on Max Voting algorithms
Ammar Almomani, Mohammad Alauthman, **Mouhammd Alkasassbeh**, Ghassan Samara, Ryan Wen Liu
ICSPN-2022: International Conference on Cyber Security, Privacy and Networking. 2022/11

SRP-Blockchain: A Framework for Scientific Research Profile on the Blockchain
Amjad Aldweesh, Huda Alatwi, Mohammad Alauthman, **Mouhammd Alkasassbeh**
ETCEA2022 -The International Conference on Emerging Trends in Computing and Engineering Applications. 2022/11

Energy efficiency Wireless Sensor Networks Protocols: A Survey
Ghassan Samara, Ammar Almomani, Mohammad Alauthman, **Mouhammad Alkasassbeh**
ETCEA2022 -The International Conference on Emerging Trends in Computing and Engineering Applications. 2022/11

Unknown Attack Detection Based on Multistage One-Class SVM
Ashaar Alkhamaiseh, **Mouhammd Alkasassbeh**, Jaafer Al-Saraireh
ETCEA2022 -The International Conference on Emerging Trends in Computing and Engineering Applications. 2022/11

An Early Detection Model for Kerberoasting Attacks and Dataset Labeling
R Younisse, **M Alkasassbeh**, M Almseidin, H Abdi
Jordanian Journal of Computers and Information Technology

Intrusion Detection Systems: A State-of-the-Art Taxonomy and Survey
M Alkasassbeh, SAH Baddar
Arabian Journal for Science and Engineering

On Detecting Distributed Denial of Service Attacks Using Fuzzy Inference System
Mohammad Almseidin, Jamil Al-Sawwa, **Mouhammd Alkasassbeh**, Mohammed Alweshah
Cluster Computing. 2022/8

Android Spyware Detection Using Machine Learning: A Novel Dataset
Majdi K. Qabalin, Muawya Naser, **Mouhammd Alkasassbeh**

Sensors 22(15). 2022/8

Cyber-Phishing Website Detection Using Fuzzy Rule Interpolation
M Almseidin, **Mouhammd Alkasassbeh**, M Alzubi, J Al-Sawwa
cryptography 6 (2), 24

An Accurate Detection Approach for IoT Botnet Attacks Using Interpolation Reasoning Method
M Almseidin, **Mouhammd Alkasassbeh**
Information 13 (6), 300

An efficient enhanced k-means clustering algorithm for best offer prediction in telecom
M Fraihat, S Fraihat, M Awad, **Mouhammd Alkasassbeh**
International Journal of Electrical and Computer Engineering 12 (3), 2931

Generating a benchmark cyber multi-step attacks dataset for intrusion detection
M Almseidin, J Al-Sawwa, **Mouhammd Alkasassbeh**
Journal of Intelligent & Fuzzy Systems, 1-15, 2022

Diabetic Retinopathy Detection Method Using Artificial Neural Network
I Odeh, **Mouhammd Alkasassbeh**, M Almseidin
Int. J. of Bioinformatics Research and Applications

On Detecting Distributed Denial of Service Attacks Using Fuzzy Inference System
M Almseidin, J Al-Sawwa, **Mouhammd Alkasassbeh**, M Alweshah
Cluster Computing

M Almseidin, J Al-Sawwa, **Mouhammd Alkasassbeh**
Anomaly-based Intrusion Detection System Using Fuzzy Logic
2021 International Conference on Information Technology (ICIT) .6/2021.

I Odeh, **Mouhammd Alkasassbeh**, M Alauthman
Diabetic Retinopathy Detection using Ensemble Machine Learning
2021 International Conference on Information Technology (ICIT) .6/2021.

G Al-Naymat, H Hussain, **Mouhammd Alkasassbeh**, N Al-Dmour
Accurate detection of network anomalies within SNMP-MIB data set using deep learning
Int. J. Computer Applications in Technology 66 (1), 74-85..2021.

Z Alothman, **Mouhammd Alkasassbeh**, SAH Baddar. An Efficient Approach to Detect IoT Botnet
Attacks Using Machine Learning. Journal of High Speed Networks 26 (3), 241–254.12/2020.

M Alkasassbeh, MA Abbadi, AM Al-Bustanji. LightGBM Algorithm for Malware Detection.
Advances in Intelligent Systems and Computing 1230, 391-403.6/2020.

Almaha Abuzuraiq, **Mouhammd Alkasassbeh**, Mohammad Almseidin. Intelligent Methods for
Accurately Detecting Phishing Websites
The 11th International Conference on Information & Communication Systems.4/2020.

Mohammad A. Abbadi, Ahmed M. Al-Bustanji, **Mouhammd Alkasassbeh**
Robust Intelligent Malware Detection using LightGBM Algorithm
International Journal of Innovative Technology and Exploring Engineering (IJITEE).4/2020.

Mouhammd Alkasassbeh, Mohammad Almseidin, Khaled Alrfou, Szilveszter Kovacs
Detection of IoT-Botnet Attacks Using Fuzzy Rule Interpolation
Journal of Intelligent & Fuzzy Systems.3/2020.

Mouhammd Alkasassbeh, Mohannad Zead Khairallah
Network Attack Detection With SNMP-MIB Using Deep Neural Network
Handbook of Research on Intrusion Detection Systems, 66-76,2020.

Mouhammd Alkasassbeh, Safaa Mohammed, Mohammad Alauthman, Ammar Almomani
"Feature Selection Using a Machine Learning to Classify a Malware".
Handbook of Computer Networks and Cyber Security, 889-904, 2020.

Alauthman, Mohammad, Nauman Aslam, **Mouhammd Alkasassbeh**, Suleman Khan, and Kim-Kwang Raymond Choo. "An efficient reinforcement learning-based Botnet detection approach." Journal of Network and Computer Applications 150(15), January 2020.

Mouhammd Alkasassbeh, Tariq Khairallah. "Winning tactics with DNS tunnelling", Network security (12), 12-19, December 2019.

Mohammed Almseidin, AlMaha Abu Zuraiq, **Mouhammd Alkasassbeh**, Nidal Alnidami," Phishing Detection Based on Machine Learning and Feature Selection Method ", International Journal of Interactive Mobile Technologies (iJIM) 13 (12), December 2019.

Mouhammd Alkasassbeh, Safaa mohammed, Mohammad Alauthman, Ammar Almomani," Feature Selection using a Machine Learning to Classify a Malware", Computer Networks and Cyber Security: Principles and Paradigms, Springer Nature, November, 2019.

Yousef Khaled Shaheen, **Mouhammd Alkasassbeh,**" A Proactive Design to Detect Denial of Service Attacks Using SNMP-MIB ICMP Variable", The 2nd International Conference on New Trends in Computing Sciences, 62-67, November, 2019.

Abdelrahman Manna, **Mouhammd Alkasassbeh,**" Detecting network anomalies using machine learning and SNMP-MIB dataset with IP group" , The 2nd International Conference on New Trends in Computing Sciences, 51-55, November, 2019.

Mohammad Almseidin, **Mouhammd Alkasassbeh**, Szilveszter Kovacs," Detecting Slow Port Scan Using Fuzzy Rule Interpolation", The 2nd International Conference on New Trends in Computing Sciences, 33-38, November, 2019.

AlMaha Abu Zuraiq, **Mouhammd Alkasassbeh**," Review: Phishing Detection Approaches", The 2nd International Conference on New Trends in Computing Sciences, 27-32, November, 2019.

Mohammed Al-Refai, Yousef Alrabanah, Mohammed Alauthman, Ammar Almomani, **Mouhammd Alkasassbeh**, mohammed Alweshah, "A Novel Leader Election Algorithm For Honeycomb Mesh Networks".Journal of Theoretical and Applied Information Technology 97 (14), July 2019.

Mohammad A. Abbadi, **Mouhammd Alkasassbeh**, Ameen Al Saudi, "A General Structure for Improving the Lifetime and Stability Period of Wireless Sensor Networks". IJCSNS International Journal of Computer Science and Network Security. 19 (5), May 2019.

Mohammad Almseidin, Imre Piller, **Mouhammd Alkasassbeh**, Szilveszter Kovacs. "Fuzzy Automaton as a Detection Mechanism for the Multi-Step Attack". International Journal on Advanced Science, Engineering and Information Technology. 9(2), March 2019.

Nabhan Hamadneh, **Mouhammd Alkasassbeh**, Ibrahim Obiedat, Mustafa BaniKhalaf, " Revisiting the Gentle Parameter of the Random Early Detection (RED) for TCP Congestion Control". Journal of Communications. 14 (3), 2019.

Mohammad Almseidin, **Mouhammd Alkasassbeh**, Szilveszter Kovacs. "Fuzzy Rule Interpolation and SNMP-MIB for Emerging Network Abnormality". International Journal on Advanced Science, Engineering and Information Technology.9(3), 2019

I Obeidat, N Hamadneh, **M Alkasassbeh**, M Almseidin, MI AlZubi. "Intensive Pre-Processing of KDD Cup 99 for Network Intrusion Classification Using Machine Learning Techniques".International Journal of Interactive Mobile Technologies (iJIM) 13 (1), 2019.

G Al-Naymat, **M Alkasassbeh**, E Al-Hawari. "Using machine learning methods for detecting network anomalies within SNMP-MIB dataset". Int. J. Wireless and Mobile Computing 15 (1), 67-76. 2018.

G Al-Naymat, **M Alkasassbeh**, Z Sober. "Pairs Trading Strategy: A Recommendation System".International Journal of Computers and Applic ations. pages={1--11}, Taylor \& Francis. 2018

Ahmad BA Hassanat, VB Surya Prasath, **Mouhammd Alkasassbeh**, Ahmad S Tarawneh, Ahmad J Al-shamailh .. "Magnetic energy-based feature extraction for low-quality fingerprint images". Signal, Image and Video Processing, 1-8. 2018

Mouhammd Alkasassbeh, mohammad Almseidi. "Machine Learning Methods for Network Intrusion Detection". ICCCNT 2018 - THE 20th INTERNATIONAL CONFERENCE ON COMPUTING, COMMUNICATION AND NETWORKING TECHNOLOGIES.12(8).2018.

G Al-Naymat**, M Alkasassbeh**, E Al-Hawari. "Exploiting SNMP-MIB Data to Detect Network Anomalies using Machine Learning Techniques". Intelligent Systems Conference.1204-1209. 2018.

Mouhammd Alkasassbeh. "A Novel Hybrid Method for Network Anomaly Detection Based on Traffic Prediction and Change Point Detection", Journal of Computer Sciences. Volume 14, Issue 2, Pages 153-162. 2018.

Adnan Rawashdeh, **Mouhammd Alkasassbeh**, Muna Hawari. "An Anomaly Based Approach for DDoS Attacks Detection in Cloud Environment", International Journal of Computer Applications in Technology. 57(4), 2018.

Mouhammd Alkasassbeh. "AN EMPIRICAL EVALUATION FOR THE INTRUSION DETECTION FEATURES BASED ON MACHINE LEARNING AND FEATURE SELECTION METHODS", Journal of Theoretical and Applied Information Technology. 95(22), 2017.

M Almseidin, M Alzubi, S Kovacs, **Mouhammd Alkasassbeh**."Evaluation of machine learning algorithms for intrusion detection system". Intelligent Systems and Informatics (SISY), 2017 IEEE 15th International, 2017.

K Qader, M Adda**, Mouhammd Alkasassbeh.** "Comparative Analysis of Clustering Techniques in Network Traffic Faults Classification". International Journal of Innovative Research in Computer and Communication Engineering**.** 5(4), 2017.

Ghazi Al-Naymat, **Mouhammd Alkasassbeh,** N Abu-Samhadanh, S Sakr. "CLASSIFICATION OF VOIP AND NON-VOIP TRAFFIC USING MACHINE LEARNING APPROACHES". Journal of Theoretical and Applied Information Technology 92 (2), 403-414, 2016.

Mouhammd Alkasassbeh ,Ghazi Al-Naymat, Eshraq Al-Hawari. "Towards Generating Realistic SNMP-MIB Dataset for Network Anomaly Detection ", International Journal of Computer Science and

Information Security Volume 14, Issue No. 9, Pages (pp. 1162-1185). 2016.

Ghazi Al-Naymat, **Mouhammd Alkasassbeh**, Ahmad Hassanat · Ahmad Al-Tarawneh, " Dynamics-Based Approach for Accurate User Identification and Authentication using Machine Learning Techniques", Conference: International Conference on Information Technology and Applications, At Sydney, Australia, July 2016

Ahmad BA Hassanat, **Mouhammd Alkasassbeh**, Mouhammd Al-awadi, AA Esra'a, "Color-based object segmentation method using artificial neural network". Simulation Modelling Practice and Theory, March 2016

Ahmad Hassanat, Esra' Alkafaween, Nedal A Al-Nawaiseh, Mohammad A Abbadi, **Mouhammd Alkasassbeh**, Mahmoud B AlhasanatEnhancing Genetic Algorithms using Multi Mutations", Enhancing Genetic Algorithms using Multi Mutations", arXiv preprint arXiv:1602.08313.2016

Mouhammd Alkasassbeh, Ghazi Al-Naymat, Ahmad Hassanat, Mohammad Almseidin (2016)," Detecting Distributed Denial of Service Attacks Using Data Mining Techniques", (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 7, No. 1, 2016.

Ahmad Hassanat, **Mouhammd Alkasassbeh**, Mouhammd Al-awadi, Esra'a A.A Alhasanat (2015)," Colour-based lips segmentation method using artificial neural networks", IEEE Information and Communication Systems (ICICS), 2015, 6th International Conference on, Amman, Jordan.

Mouhammd Alkasassbeh, Ghada A. Altarawneh, Ahmad B. A. Hassanat (2015), "On Enhancing The Performance Of Nearest Neighbour Classifiers Using Hassanat Distance Metric", Canadian Journal of Pure and Applied Sciences, (Vol.9, No.1). 2015.

H Faris, **M Alkasassbeh**, A Rodan (2014), "Artificial Neural Networks for Surface Ozone Prediction: Models and Analysis", Polish Journal of Environmental Studies 23 (2).

H Faris, **M Alkasassbeh**, N Ghatasheh, O Harfoushi (2014), "PM10 prediction using Genetic Programming: A Case Study in Salt, Jordan", Life Science Journal 11 (2).

R Obiedat, **M Alkasassbeh**, H Faris, O Harfoushi (2013), "Customer churn prediction using a hybrid genetic programming approach", Scientific Research and Essays 8 (27), 1289-1295.

A Sheta, H Faris, **M Alkasassbeh** (2013), "A Genetic Programming Model for S&P 500 Stock Market Prediction", International Journal of Control and Automation 6 (Vol.6, No.5), pp.303-314.

M Alkasassbeh, AF Sheta, H Faris, H Turabieh (2013), "Prediction of PM10 and TSP Air Pollution Parameters Using Artificial Neural Network Autoregressive, External Input Models: A Case Study in Salt, Jordan" ,Middle-East Journal of Scientific Research 14 (7), 999-1009.

M Alkasassbeh (2013), "Predicting of Surface Ozone Using Artificial Neural Networks and Support Vector Machines" International Journal of Advanced Science and Technology. 55

A Sheta**, M Alkasassbeh**, M Braik, H Abu Ayyash (2012), "Detection of Oil Spills in SAR Images using Threshold Segmentation Algorithms", International Journal of Computer Applications 57

H Faris, **M Alkasassbeh**, A Sheta (2012), "Predicting Stock Abundance of the Barents Sea Capelin Using Genetic Programming" , International Review on Computers and Software (IRECOS) 7 (4)

Alkasassbeh, M. (2011), "Network Intrusion Detection with Wiener Filter-based Agent" World Applied Sciences Journal 13 (11): 2372-2384, 2011 - ISSN 1818-4952 - idosi.org

Alkasassbeh, M. (2011), "Change Detection Methods for Computer Network Problems", World Applied Sciences Journal 13 (11): 2364-2371, 2011 - ISSN 1818-4952- idosi.org

Alkasassbeh, M., Adda, M. (2009), " 'Network Fault Detection based on Wiener Filter' " presented at Third International Conference on Internet Technologies and Applications (ITA 09), September 2009, Wrexham, North Wales, UK.

Alkasassbeh, M., Adda, M. (2009), "Network Fault Detection with Wiener Filter-Based Agent", Journal of Network and Computer Applications-Elsevier, doi:10.1016/j.jnca.2009.02.001.

Alkasassbeh, M., Adda, M. (2007), "Analysis of Mobile Agents in Network Fault Management", Journal of Network and Computer Applications-Elsevier, Journal of Network and Computer Applications, Volume 31, Issue 4 (November 2008) table of contents, Pages 699-711, ISSN:1084-8045

Alkasassbeh, M., Adda, M. (2006), "The Architecture of the Intelligent Mobile Agent in Network Fault Management", presented at International Conference on Computer Science and Information Systems, Athens.

Alkasassbeh, M., Adda, M., Peart, A. (2005), "A survey of Network Fault Management ". In: IADAT ed. 2nd International Conference on Telecommunications and Computer Networks. 7-9 September 2005, Portsmouth UK.

Adda, M., Owen, G. **Kasassbeh, M**., Paraskelidis, A., Peart, A. (2005), "Communication issues in Large Scale Wireless Ad hoc Networks", presented at International Conference on Computer Science and Information Systems, Athens.

Journal Referee in:

- Journal of Network and Computer Applications.
- Journal of Computer Science.
- The International Arab Journal of Information Technology- IAJIT.
- KSII Transactions on Internet and Information Systems
- Sensors
- Information
- Computers
- Future Internet
- CLUSTER COMPUTING
- TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES
- APPLIED SCIENCES

- APPLIED SYSTEM INNOVATION
- ELECTRONICS
- IEEE TRANSACTIONS ON NETWORK AND SERVICE MANAGEMENT
- International Multi-Conference on Complexity, Informatics and Cybernetics
- Journal of AI and Data Mining
- JOURNAL OF INTELLIGENT & FUZZY SYSTEMS
- MATHEMATICS
-

Books

Mobile Agents for Network Fault Detection Based on the Wiener Filter

ISBN: 9783639174366

Published: 30 June 2009

Advisor or Co-Advisor on Thesis Project:

Ali Trawnih . 2015- 2019 PhD. **A new e-readiness framework for Jordanian municipalities: the development and application of a technological, organisational and environmental model.** University of Gloucestershire, UK

Mohammad Abdallah Almseidin. supervisor. 2014-2015 M.Sc. Thesis. **Detection and Classification DDoS Attack using Artificial Neural Network**. Information technology department, Mutah University, Jordan.

Ahmad Ayman Al-Tarawneh. supervisor. 2014-2015 M.Sc. Thesis. **Machine learning for user authentication using keystroke dynamics**. Information technology department, Mutah University, Jordan.

Nosaiba Hamdan Abu-Samhadanh. supervisor. 2014-2015 M.Sc. Thesis. **Computer Network Traffic Classification Using Machine Learning Technique**. Information technology department, Mutah University, Jordan.

Eshraq Mohammad Al-Hawari. supervisor. 2014-2015 M.Sc. Thesis. **A Mechanism for Detecting and Classifying Network Anomaly Using SNMP- MIB**. Information technology department, Mutah University, Jordan.

Alaa Ahmad Lasasmeh. supervisor. 2014-2015 M.Sc. Thesis. **Anomaly Detection in Wireless Sensor Networks (WSNs) by using Machine Learning Techniques**. Information technology department, Mutah University, Jordan.

Esraa Abdelsalam Hasanat. Co-supervisor. 2014-2015 M.Sc. Thesis. **Automated Positioning for Towers and Antenna in WiMAX Networks**. Information technology department, Mutah University, Jordan.

Muna Suleiman Ali AL-Hawawreh. supervisor. 2015-2016 M.Sc. Thesis. **Securing Virtual Cloud Environment from DDoS**. Information technology department, Mutah University, Jordan.

Ahmad AlShamayleh. supervisor. 2015-2016 M.Sc. **New Features Extraction Technique for Low Quality Fingerprints.** Information technology department, Mutah University, Jordan.

Esra Edenat. supervisor.   2016-2017 M.Sc. **Using MPLS to effectively transmit huge traffic amount in SDN.** Information technology department, Mutah University, Jordan

Ameen Al-Mseidein. supervisor. 2017-2018 MSc. **A General Adaptive Structure for Improving the Lifetime and Stability Period of Wireless Sensor Networks**. Information technology department, Mutah University, Jordan

Remah Shaher Al-Thunebat. supervisor. 2018-2019 MSc. **A Load Balancing in Cloud Computing Performance: Empirical Study**. Information technology department, Mutah University, Jordan

Ahmed M. Al-Bustanji. supervisor. 2018-2019 MSc. **Accurate Malware Detection using LightGBM Algorithm**. Information technology department, Mutah University, Jordan.

Omar Hamad Naser Al-Smeheen. supervisor. 2019-2020 MSc. **Dimensionality Reduction for DDOS Database
Using PCA.** Information technology department, Mutah University, Jordan.

Nisreen Raeq. supervisor. 2019-2020 MSc. **Multi Mobile Agents Planning for collecting MIB data:Dynamic Time-Effective Approach**. Princess Sumaya University for Technology, Jordan

AlMaha Abu Zuraiq. supervisor.. 2019-2020 MSc.   **Intelligent Methods for Accurately Detecting Phishing Websites**. Princess Sumaya University for Technology, Jordan

Malak Ziyad Fraihat . supervisor. 2019-2020 MSc. **New Clustering Approach to Predict the Best Customers**. Princess Sumaya University for Technology, Jordan.

Asshar khamaiseh. supervisor. 2021-2022 MSc.   **Unknown Attack Detection based on Multistage One-Class SVM**. Princess Sumaya University for Technology, Jordan.

Zain Salah Ashi. supervisor. 2021-2022 MSc. **Multi-Layered Intelligent Cyber Attack DetectionUsing One-Class SVM**. Princess Sumaya University for Technology, Jordan.

Rama Al Attar. supervisor. 2021-2022 MSc. **Soft computing for anomaly detection to mitigate IoT abuse**. Princess Sumaya University for Technology, Jordan.

Ehab Ali Almasri . supervisor. 2022-2023 MSc. **Towards Generating a Practical SUNBURST Attack Dataset for Network Attack Detections.** . Princess Sumaya University for Technology, Jordan.

Committee Member on Thesis Examination:

Nafea Ali Majeed Alhammadi. 2016. **Comparative Study between (SVM) and (KNN) Classifiers after adding (PCA) to Improve of Intrusion Detection System**. M.Sc. Faculty of Information Technology, Middle East University. Amman, Jordan.

Heba Hashim Al-Nsour. 2016. **Grey wolf optimizer algorithm with probabilistic neural.** Faculty of Graduate Studies at Al-Balqa' Applied University Salt, Jordan.

Moad Abu Qadoura.2016. **Flower Pollination Algorithm with an Artificial Neural Network for Solving classification problems**
. Faculty of Information Technology at Al-Balqa' Applied University Salt, Jordan.

Mohammed Jamal Al-Saaidah.2017. **Enhancement of Queuing Algorithm for improving Network Performance**. Faculty of Information Technology at Al-Balqa' Applied University Salt, Jordan.

Ibrahem Ahmad Alhabash.2017. **TOPOLOGY AWARE MEDIA ACCESS CONTROL PROTOCOL FOR MOBILE AD HOC NETWORK**. King Abdullah School of IT - University of Jordan, Jordan.

Hamza Bassam Bani Ata. 2018. **A Model for Privacy in Mobile Cloud Computing Systems**. King Abdullah School of IT - University of Jordan, Jordan.

Farah Tawfiq Abu-Dabaseh.2018. **Web Applications Forensics for Smartphones**. King Abdullah I School of Graduate Studies and Scientific Research, Princess Sumaya University for Technology

King Abdullah I School of Graduate Studies and Scientific Research

Sarah Khaldun . 2021.. **Blockchain Based E-Voting System for Elections in Jordan :** King Abdullah I School of Graduate Studies and Scientific Research, Princess Sumaya University for Technology

PhD Committee Member on Thesis Examination:

P.Periyasamy, 2016. **Design and Development Of Link Reliable Energy Efficient Ad Hoc On-Demand Multipath Distance Vector (LR-EE-AOMDV) Routing Protocol For Mobile Ad Hoc Networks.** Doctor Of Philosophy In Computer Science (PhD) Bharathiar University, India.

O. AbuAlghanam,2020. **Lightweight Key Distribution Protocol for Internet of Things.** Doctor Of Philosophy In Computer Science (PhD) Jordan University, Jordan.

H.Alazzam,2020. **An Automatic Lightweight Intelligent Intrusion Detection System For Cyber Security**. Doctor Of Philosophy In Computer Science (PhD) Jordan University, Jordan.

E. Rawashdeh,2020. **A Coevolutionary Framework For Feature Selection And Optimization Of Neural Networks**. Doctor Of Philosophy In Computer Science (PhD) Jordan University, Jordan.

Orieb Talal AbuAlghanam.2021. **Lightweight Key Distribution Protocol for Internet of Things**. Doctor Of Philosophy In Computer Science (PhD) Jordan University, Jordan.

Muhyidean Khaled AlTarawneh .2021. **Data Analytics Framework for Permissioned Blockchains: Hyperledger Fabric**. Doctor Of Philosophy In Computer Science (PhD) Jordan University, Jordan.

Ola Majed Malkawi .2023. **USING MACHINE LEARNING TO DESIGN AND IMPLEMENT AN INTRUSION DETECTION SYSTEM TO SECURE SMART CITIES BASED ON FEATURE SELECTION**. Doctor Of Philosophy In Computer Science (PhD) Jordan University, Jordan.

Professional Work Experience

Sept 18– Present		**Full Professor -** *King Hussien School for Computing Sciences, Princess Sumaya, University for Technology, Jordan.*
Aug 18 – Sept 18		**Full Professor -** *Computer Sciences Department – Mutah University, Jordan*
Sept 17 – Aug 18		**Associate Professor -** *Computer Sciences Department – Mutah University, Jordan*
Sept 16 – Sept 17		**Associate Professor -** *King Hussien School for Computing Sciences, Princess Sumaya, University for Technology, Jordan* (**sabbatical leave**)
Aug 13 – Sept 16		**Associate Professor -** *IT Department – Mutah University, Jordan*
Sept 13 – Sept 14		**Head of IT Department** - Mutah *University, Jordan*
Jun 11 – Sept 13		**Postdoc Leiden University, Netherlands** (Summer time each year)
Aug 08 – Aug 13		**Assistant Professor -** *IT Department Mutah University, Jordan*
Nov 05 – May 08		**Part-time Lecturer -** *Computer Sciences Department, Portsmouth University, UK*
Jan 00 – Sept 03		**Computer Programmer -** *Computer Centre, Mutah University, Jordan*
Oct 99 – Jan 00		**Teacher -** *Ministry of Education, Jordan*
Sept 98 – Sept 99		**Computer Programmer and Instructor -** *Saudi Arabia*
Feb 98 – Aug 98		**Computer Programmer –** *National Support Office, Jordan*

Education And Certification

2005 – 2008	**PhD Computer Science -** *University of Portsmouth, UK* Specialty Networking: Thesis title *"Mobile Agents for Network Fault Detection Based on Wiener Filter".*
2003 – 2004	**MSc in Internet Systems Development -** *University of Portsmouth, UK* Specialty Internet Systems.
1994 – 1998	**BSc in Computer Science -** *Mutah University, Jordan* Specialty Internet Systems.
1993 – 1994	**Scientific Stream –** *High School, Al karak, Jordan*

2016 – 2017	**Cisco Certified Network Associate Routing & Switching (CCNA)** **CCNA Security**	
2000 – 2001	**CA-OpenIngres User Interface** **CA-OpenIngres SQL** **Application Development in CA-Windows 4GL (CA OpenROAD) DEVWOR**	

Teaching

Level	Course Name	Course No
PhD	Network Security	11932
Master	Advance Computer Network	0304720
Master	Computer Simulation	0304730
Master	Network Security	0304740
Master	Design and Development of e-business	1901716
Master	Management Information Systems	1901761
Master	Introduction of Information Technology	1901717
Master	Supervision of Master's Dissertation	
Undergrad	Computer Network	0304424
Undergrad	Internet Programming	0304424
Undergrad	eCommerce Technology	0304431
Undergrad	C++ Programming	0304112
Undergrad	Final Year Projects	0307614
Undergrad	Java Programming	0304215

Research Interests

- Network Traffic Analysis
- Time Series Analysis
- Intelligent Mobile Agent Systems
- Computer Network Security
- Cloud computing

- Network Fault Detection
- AI and machine learnings in network security
- Intrusion Detections Systems (IDS)
- SDN and Traffic engineering
- Router queuing

Referees

Name:	Prof. Mo Adda
Organization:	University of Portsmouth,UK
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Relationship:	
Name:	Prof. Alex Gegov
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Webpage:	www.tech.port.ac.uk/staffweb/addist/intel.htm
Email:	alex.gegov@port.ac.uk
Name:	Prof. Vasilis Katos
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Webpage:	http://staffprofiles.bournemouth.ac.uk/display/vkatos
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Name:	Dr. Sufyan Almajali
Organization:	Princess Sumaya University for Technology (PSUT). Jordan
Webpage:	http://www.psut.edu.jo/users/dr-sufyan-almajali
Email:	s.almajali@psut.edu.jo
Name:	Dr. Ghazi Al-Naymat
Organization:	Ajman University, Ajman, UAE.
Webpage:	https://www.ajman.ac.ae/en/engineering/directory/staff/ghazi-alnaymat
Email:	g.alnaymat@ajman.ac.ae
Name:	Prof. Arafat AWAJAN
Organization:	President Mutah University
Webpage:	
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