

Prof. Mouhammd Alkasassbeh

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Personal Statement

Skilled and inspired IT Professor with an advanced educational background. Driven to motivate students to attain academic and personal excellence. Firm, positive leader with outstanding rapport among faculty, administration, students and parents. Accomplished in the selection and adaptation of the best teaching materials, combined with a unique experience and knowledge. Meticulous and devoted role model, knowledgeable in all curriculum areas. Continually striving to create a stimulating and engaging learning environment. Exceptional proven history of research success with multiple published articles.

Accomplishments

Z Alothman, M Alkasassbeh, SAH Baddar. An Efficient Approach to Detect IoT Botnet Attacks Using Machine Learning. *Journal of High Speed Networks* 26 (3), 241–254

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 Applications. 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 Alhasanat "Enhancing 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

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.

Mohamed Abushwereb. supervisor. 2019-2020 MSc. **An accurate IoT Intrusions Detection Framework using Apache Spark.** Princess Sumaya University for Technology, Jordan.

Zainab Ameen. supervisor. 2019-2020 MSc. **An Efficient Approach to Detect IoT Botnet Attacks Using Machine Learning .**-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

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.

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 “ <i>Mobile Agents for Network Fault Detection Based on The Wiener Filter</i> ”.
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
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
 - Machine Learning
 - Intrusion Detections Systems
 - SDN and Traffic engineering
 - Router queuing
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Referees

Name: Dr. Mo Adda
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