Mohammad Rasmi Al-Mousa

Email: mmousa@zu.edu.jo

Computer Sciences / Network Security

Academic Rank:

ASSOCIATE PROFESSOR

Membership:

1.	IEEE Membership & IEEE Young Professionals
2.	External member of the Scientific Research Council at Al-Zaytoonah University
3.	Member of the steering committee for Jordanian Collegiate Programming Contest (JCPC)
4.	Founding Member of the Jordanian Programmers Association (JPA)
5.	Senior Member of the Institute of Research, Engineers and Doctors (IRED)
6.	Member of the Software Engineering department committee.
7.	Member of the steering committee for student's practical training at the faculty.
8.	Head of a committee for student's activity at the faculty.
9.	Coach for a group of teams in the National collegiate Programming Contest and ACM Global Competition
10.	Member of the Society of Digital Information and Wireless Communications (SDIWC)
11.	Member of the Internet Society (ISOC)
12.	Member of the International Association of Computer Science and Information Technology (IACSIT)

Qualifications:

1.	Ph.D in Computer Science / Network Security, Universiti Sains Malaysia, 2013
2.	M.S. in Computer Information Systems, AABS, Jordan, 2004
3.	B.S. in Computer Science, Zarqa Private University, Jordan, 1999

Professional Objective(s):

Develop information technology in a sustainable way in order to achieve progress and prosperity in the community through the promotion and support of scientific research in this area.

Teaching Experience:

#	From	to	
1.	2024	Now	Cybersecurity/Internet Technology Department, Associate Professor, Faculty of Information Technology, Zarqa University, Jordan
2.	2021	2024	Head of Cybersecurity/Internet Technology Department, , Associate Professor, Faculty of Information Technology, Zarqa University, Jordan
3.	2020	2021	Head of Cybersecurity/Internet Technology Department, , Assistant Professor, Faculty of Information Technology, Zarqa University, Jordan
4.	2016	2020	Head of Software Engineering Department, , Assistant Professor, Faculty of Information Technology, Zarqa University, Jordan

5.	2014	2016	Assistant Professor, Faculty of Information Technology, Department of Software Engineering, Zarqa University, Jordan,
6.	2013	2014	Assistant Professor Faculty of Information Technology, Department of Computer Science, Zarqa University, Jordan
7.	2010	2013	School of Computer Sciences, Universiti Sains Malaysia. Penang, Malaysia., Teaching Assistance
8.	2010	2013	Security and Forensic Research Group (SFRG), School of Computer Sciences, Universiti Sains Malaysia. Penang, Malaysia., Researcher
9.	2004	2009	Institute of Public Administrations (IPA). Riyadh, KSA., Faculty Staff In Computer And Information Programs Dept

Publications:

#	Title	Publisher	Year/ Issue (Vol/No)
.1	Deep Learning-Based Malware Detection via Meta-Information and Manifest Analysis in Android Systems	Journal of System and Management Sciences	Vol. 14 (2024) No. 8, pp. 299-309
.2	Antecedents of cloud-based financial information systems usage: An integrated model	International Journal of Data and Network Science	8 (2024) 125–138
.3	Development of a Secure Model for Mobile Government Applications in Jordan	Journal of Statistics Applications & Probability An International Journal	13, No. 1, 145-155 (2024)
.4	Automatic Smart Parking	Intelligent Systems, Business, and Innovation Research	2024, pp. 609-616

.5	Design a Smart Turbines for Power Generation	Intelligent Systems, Business, and Innovation Research	2024, pp. 597-608
.6	Security System for Bank Cash Safe	Intelligent Systems, Business, and Innovation Research	2024, pp. 681-689
.7	Analyzing and contrasting machine learning algorithms for Intrusion Detection System	2023 24th International Arab Conference on Information Technology (ACIT)	2023
.8	An Enhanced Intrusion Detection System for Protecting HTTP Services from Attacks	International Journal of Advances in Soft Computing & Its Applications	Vol. 15, No. 2, July 2023
.9	Enhancing Imbalanced Data Classification: A Case Study of Portuguese Bank Marketing	Journal of Southwest Jiaotong University	58(6), 2023
.10	Website Phishing Detection Using Machine Learning Techniques	Journal of Statistics Applications & Probability An International Journal	13, No. 1, 119-129 (2024)
.11	The Role of Business Incubators in Promoting Entrepreneurship of Higher Education Institutions	Journal of Namibian Studies: History Politics Culture	2023(33), pp. 906-924
.12	A Comparative Study on the Performance of 64-bit ARM Processors.	International Journal of Interactive Mobile Technologies	17, 2023
.13	A New Iterative Approach for Designing Passive Harmonic Filters for Variable Frequency Drives	Applied Mathematics & Information Sciences An International Journal	17, No. 3, 453-468 (2023)
.14	Numerical Analysis of Friction Stir Welding on an Alumunium Butt Joint	Information Sciences Letters An International Journal	12, No. 9, 2299-2311 (2023)

.15	Assessing the Impact and Effectiveness of Cybersecurity Measures in e-Learning on Students and Educators: A Case Study	International Journal of Advanced Computer Science and Applications	Vol. 14, No. 5, 2023
.16	Awareness model for minimizing the effects of social engineering attacks in web applications	International Journal of Data and Network Science	7 (2023) 791–800
.17	A Mathematical Proposed Model For Public Key Encryption Algorithms In Cybersecurity	Advances in Mathematics: Scientific Journal	10 (2021), no.9, 3063–3092 ISSN: 1857-8365
.18	Blockchain-based framework for interoperable electronic health record	Annals of the Romanian Society for Cell Biology	ISSN:1583-6258, Vol. 25, Issue 3, 2021
.19	Using Chaotic Stream Cipher to Enhance Data Hiding in Digital Images	International Journal of Advanced Trends in Computer Science and Engineering	9(4), July – August 2020, 5236 – 5242, doi.org/10.30534/ijatcse/2020/153942020
.20	Proposed E-payment Process Model to Enhance Quality of Service through Maintaining the Trust of Availability	International Journal of Emerging Trends in Engineering Research	Volume 8. No. 6, June 2020, ISSN 2347 - 3983
.21	Verifying Usability In Mobile Applications	International Journal Of Scientific & Technology Research	Volume 9, Issue 06, June 2020, ISSN 2277-8616
.22	Perceptions of Smartphone Users' Acceptance and Adoption of Mobile Commerce (MC): The Case of Jordan	Journal of Computer Science	16 (4), April 2020, DOI: 10.3844/jcssp.2020.532.542
.23	Analyzing Cyber-Attack Intention for Digital Forensics Using Case-Based Reasoning	International Journal of Advanced Trends in Computer Science and Engineering	November-December 2019, 8(6), pp 3243 – 3248, doi:10.30534/ija

			tcse/2019/9286 2019
.24	Healthcare professionals' acceptance Electronic Health Records system: Critical literature review (Jordan case study)	International Journal of Healthcare Management	2018 ISSN: 2047-9700, doi.org/10.1080 /20479700.2017 .1420609
.25	Using Encryption Square Key with One-Dimensional Matrix for Enhancing RGB Color Image Encryption-Decryption	Indonesian Journal of Electrical Engineering and Computer Science	2018 9(3)
.26	Analyzing Network Traffic to Enhance the IDS Accuracy Using Intrusion Blacklist	International Journal of Computer Science and Information Security (IJCSIS)	Volume 15, Issue 1, JANUARY 2017, pp. 46-67, ISSN 1947-5500.
.27	Improving Analysis Phase in Network Forensics By Using Attack Intention Analysis	International Journal of Security and Its Applications (IJSIA)	2016. ISSN: 1738-9976 Vol. 10, No. 5 pp.297-308, http://dx.doi.org /10.14257/ijsia.2 016.10.5.28
.28	A Survey on Single Scalar Point Multiplication Algorithms for Elliptic Curves over Prime Fields	IOSR Journal of Computer Engineering (IOSR-JCE)	2016.e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 18, Issue 2, PP 31-47
.29	A Blacklist Process Model to Enhance the IDS Using Similarity Measurements	Journal of Internet Technology and Secured Transactions (JITST)	2015. Volume 4, Issue 3

.30	Deploying an Efficient Safety System for VANET	The World of Computer Science and Information Technology Journal (WSCIT)	2015. Volume 5, Issue 3. pp. 41.50. ISSN: 2221-0741
.31	PNFEA: a Proposal Approach for Proactive Network Forensics Evidence Analysis to Resolve Cyber Crimes	International Journal of Information Technology and Computer Science(IJITCS)	2015. vol.7, no.2, pp.25-32, 2015.DOI: 10.5815/ijcnis.2 015.02.03
.32	Evaluating Composite EC Operations and their Applicability to the on-the-fly and non-window Multiplication Methods.	International Journal of Computer Applications	2014. 105(6):19-26, DOI: 10.5120/18382-9621.
.33	A New Algorithm to Estimate the Similarity between the Intentions of the Cyber Crimes for Network Forensics.	Procedia Technology Journal. Published by Elsevier	2013. B.V., Vol. 11, pp. 540-547, ISSN: 2212-0173.
.34	ASAS: Agile Similarity Attack Strategy Model based on Evidence Classification for Network Forensic Attack Analysis	Information Technology and Computer Science Journal	2012. ISSN: 2147 5150, Vol. 1, pp. 846-857,
.35	A Similarity Model to Estimate Attack Strategy Based on Intentions Analysis for Network Forensics.	Recent Trends in Computer Networks and Distributed Systems Security. Springer Berlin Heidelberg	2012. Vol 335. pp. 336-346.
.36	Service Violation Monitoring Model for Detecting and Tracing Bandwidth Abuse.	JNSM: Journal of the Network and Systems Management	2012. DOI 10.1007/s10922-012-9236-2

#		Publisher	Year
.37	AIA: Attack Intention Analysis Algorithm Based on D-S Theory with Causal Technique for Network Forensics - A Case Study.	JDCTA: International Journal of Digital Content Technology and its Applications	2011. Vol. 5, No. 9, pp. 230 ~ 237
.38	Attack Intention Analysis Model for Network Forensics.	Communications in Computer and Information Science (CCIS), Springer CCIS 180	2011. pp. 403-411.

Books:

#	Book Title	Publisher	Year
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Translated Books:

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Conferences:

#	Paper Title	Organizing Institution	Conference
.1	Security Challenges Review in Agile and DevOps Practices	Zaytoona University	2023 International Conference on Information Technology (ICIT)
.2	Deep Learning for Automatic Determination of Bone Age in Children	Zarqa University	2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)
.3	Two-Layer SVM, Towards Deep Statistical Learning	Zarqa University	2022 International

			Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)
.4	Classifying Date Palm Tree Diseases Using Machine Learning	Zarqa University	2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)
.5	An Efficient Classifier: Kernel SVM-LDA	Zarqa University	2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)
.6	Image Captions and Hashtags Generation Using Deep Learning Approach	Zarqa University	2022 International Engineering Conference on Electrical, Energy, and Artificial

			Intelligence (EICEEAI)
.7	Vulnerabilities in Vehicular Ad Hoc Networks and Possible Countermeasures	Zarqa University	2022 International Arab Conference on Information Technology (ACIT)
.8	Examining Digital Forensic Evidence for Android Applications	Zarqa University	2022 International Arab Conference on Information Technology (ACIT)
.9	Improving VANET's Performance by Incorporated Fog-Cloud Layer (FCL)	Zarqa University	2021 22nd International Arab Conference on Information Technology (ACIT)
.10	General Countermeasures of Anti-Forensics Categories	Mosharaka for Research and Studies	2021 Global Congress on Electrical Engineering (GC-ElecEng)
.11	Generic Proactive IoT Cybercrime Evidence Analysis Model for Digital Forensics	Zaytoona University	The 10th International Conference on Information Technology (ICIT 2021)

.12	Intelligent security in the era of AI: The key vulnerability of RC4 algorithm	Zaytoona University	The 10th International Conference on Information Technology (ICIT 2021)
.13	Analyzing Cyber-Attack Intention for Digital Forensics Using Case-Based Reasoning	The World Academy of Research in Science and Engineering	7th International Conference on Advances in Computer Science and Engineering (ICACSE 2019)
.14	A Proposed Wireless Intrusion Detection Prevention and Attack System	Zarqa University	International Arab Conference on Information Technology (ACIT)
.15	Utility classes detection metrics for execution trace analysis	Zaytoona University	8th International Conference on Information Technology (ICIT)
.16	A trace simplification framework	Zaytoona University	8th International Conference on Information Technology (ICIT)
.17	Enhancing RGB Color Image Encryption-Decryption Using One-Dimensional Matrix	Zarqa University	The 17th International Arab Conference on Information

			Technology (ACIT'2016)
.18	A New Model for Pre-analysis of Network Traffic Using Similarity Measurement	Zaytoona University	The 7th International Conference on Information Technology (ICIT 2015)
.19	Intrusion Blacklist Model (IBM) To Pre-analyze Network Traffic Using Similarity Measurement,Abstract for publication and oral presentation	Applied Science University	the Modern Information Technology Trends (MITT)
.20	A New Approach For Resolving Cyber Crime In Network Forensics Based On Generic Process Model.	Zaytoona University	The 6th International Conference on Information Technology (ICIT 2013)
.21	A Defensive Evidence Model: An Approach of Security Model for Storing Digital Evidence in Network Forensics.	Universitas Sumatera Utara, Medan, Indonesia	The First International Conference on Computational Science and Information Management (ICoCSIM – 2012)
.22	Proactive Model to Analyze Cyber-Crime Intentions for Network Forensics.	UniversitiSains Malaysia, Penang	Proceeding of the Computer Science

			Postgraduates Colloquium (CSPC'12)
.23	A general process model for: NFAA-network forensics attack analysis.	UniversitiSains Malaysia, TanjungTokong, Penang	Proceeding of the Computer Science Postgraduates Colloquium (CSPC'11)
.24	Network Forensics Attack-Analysis Model Based on Similarity of Intention.	Beijing, China	The 2011 International Conference on Computer Application and Education Technology (ICCAET 2011).
.25	A Model for NFAA-Network Forensics Attack Analysis.	K.L, Malaysia, ASME Press	International Conference on Computer Engineering and Technology, 3rd (ICCET 2011).
.26	Client Request Acceptance Model (CRAM) for e-Transaction Security.	UniversitiSains Malaysia, Jerejak, Penang	Proceeding of the Computer Science Postgraduates Colloquium (CSPC'10)

Supervision of Theses:

#	Year	University	Thesis Title	Student Name
.1	*2023*	Zarqa University	Proposed Model for Enhancing Intrusion Detection System in DevOps Continuous Monitoring Stage Using AI	Ahmad AlZaben
.2	*2021*	Zarqa University	A Proactive Availability Intrusion Detection Model for E-government	Areeg Azaizeh
.3	*2021*	Zarqa University	Awareness Model for Minimizing the Effects of Social Engineering Attacks in Web Applications	Maher O Al-Khateeb
.4	2016	Zarqa University	Proactive Evidence Preserving Model for Cybercrime using Encryption	Sana' Omar Haimour
.5	2016	Zarqa University	Enhanced Colored Images Encryption Technique	Fadi Nayef Al-salameen
.6	2015	Zarqa University	Building an Intrusion Blacklist Using Similarity Measurement	Enas Ayman Al-Utrakchi

Community Service Activities

#	Duartion	Activity
1	6-7/2/2022	Technical development, security and information protection course for members of the public security forces

Personal Information

Name		Mohammad rasmi Al-Mousa	
Place and Date of Birth		Jordan 6/5/1977	
Nationality		Jordanian	
Marital Status		Married	
Address		Amman	
Work Tel No.		6354	فرعي	0096253821100
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Postal Address		ص.ب:5468 الرمز البريدي: 131.11	