

Mutaz Abdel Wahed

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Education:

PhD.: 2007, *Majoring in Computer Networks Security*. Thesis title: "*Methodological-algorithmic analysis and evaluation of the Reliability and fault tolerance system of Distributed Local Area Network*". Department of Computer Networks, HSE Moscow.

MSc.: 1999, Engineering & Technologies.

Saint-Petersburg Electrotechnical University, Saint-Petersburg (LETI).

BSc.: 1997, Engineering & Technologies.

Saint-Petersburg Electrotechnical University, Saint-Petersburg (LETI).

Experience - Teaching (Full-Time):

Sep 2008 – present: Associate Professor/ Faculty of Information Technology, Jadara University.

I taught the following courses:

➤ Cybersecurity Fundamentals ➤ Cybersecurity Ethics ➤ Computer Networks (switching and Routing) ➤ Wireless Networks ➤ Networks Security ➤ Networks Programming (Sockets) ➤ Computer Networks Design and Management ➤ Computer Network Protocols ➤ Networks Modeling and Simulation ➤ Discrete Structures ➤ Digital Logic Design ➤ Introduction to Programming	➤ Computer Organization and Architecture ➤ Operating Systems ➤ Programming Language I&II (C++, Java, PHP) ➤ Object Oriented Programming Using C++, Java ➤ Web programming (HTML, PHP, JavaScript) ➤ Databases (SQL, MYSQL) ➤ Introduction to IT ➤ Modeling and Simulation (Python, Arena, Any Logic, by hand, and Excel) ➤ Computer Skills ➤ Graduation Projects & Training ➤ Python Programming
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○ **Oct. 2007 – Jan 2008:** Part Time Instructor in the following courses to students at both the undergraduate and postgraduate levels:

- Digital Logic Design and LAB.
- Computer Organization and Architecture.
- Discrete Mathematics.
- Computer Networks Fundamentals.

Experience - Industry:

- **June 1999 – Jun 2003:** Gained extensive industrial experience in Saudi Arabia and Jordan as a Maintenance Manager, specializing in computer network maintenance, programming and troubleshooting automated manufacturing systems, and ensuring the reliability of production lines. As a member of the Research and Development (R&D) department, collaborated with multidisciplinary engineering teams from the Philippines, China, and India to design and implement robotic gripper systems that reduced production cycle time, improved manufacturing efficiency, and enhanced automation processes.

Experience - Administration:

Sep.2010–Oct.2012: *Chairman of Software Engineering Department*, Faculty of Information Technology, *Jadara University/ Jordan*.

Feb.2010–Oct.2012: *Chairman of Computer Science Department*, Faculty of Information Technology, *Jadara University/ Jordan*.

Oct.2016–Sep.2018: *Chairman of Computer Networks Department*, Faculty of Information Technology, *Jadara University/ Jordan*.

Oct.2022–present: *Chairman of Computer Networks and Cybersecurity Department*, Faculty of Information Technology, *Jadara University/ Jordan*.

Publications:

No.	Publications
1	Abdel Wahed Mutaz, Nader Mohammad Aljawarneh: From Manual to Agentic Security Operations: A Multi-Dimensional Evaluation of AI-Driven SOC Architectures, Journal of Information & Knowledge Management- June 2026- https://doi.org/10.1142/S0219649226500395
2	M. A. Wahed, N. M. Aljawarneh, O. Almarashdi and F. Almarashdi, "Agentic Automation in Healthcare Finance: A Next-Generation Model for Invoice Processing," 2026 <i>International Conference on Integrated Intelligence and Cognitive Engineering (ICIICE)</i> , Dubai, United Arab Emirates, 2026, pp. 1-5, doi: 10.1109/ICIICE69672.2026.11565502
3	M. A. Wahed, B. Zughuol, M. Alzubi and M. Bashabsheh, "Enhancing CNN Resilience: A Dual-Layer Defense Framework Integrating Neural-Cleanse and JPEG Compression," 2026 <i>International Conference on AI Innovations and Industry (ICAIII)</i> , Jeddah, Saudi Arabia, 2026, pp. 1-6, doi: 10.1109/ICAIII69475.2026.11521380
4	M. Alzubi, M. Bashabsheh, Z. Al-Nweiran and M. A. Wahed, "A Business Intelligence Centered Framework for Early Warning and Prescriptive Recovery in Disrupted Supply Chains," 2026 <i>2nd International Conference on Computational Intelligence Approaches and Applications (ICCIAA)</i> , Amman, Jordan, 2026, pp. 1-8, doi: 10.1109/ICCIAA68481.2026.11543775
5	M. Bashabsheh, M. Alzubi, B. Zughuol and M. A. Wahed, "Integrating Business Intelligence Frameworks for Predictive and Adaptive Supply Chain Logistics Management," 2026 <i>International Conference on AI Innovations and Industry (ICAIII)</i> , Jeddah, Saudi Arabia, 2026, pp. 1-7, doi: 10.1109/ICAIII69475.2026.11521348
6	M. Alzubi, M. Bashabsheh, B. Zughuol and M. A. Wahed, "Scope-3 Intelligence: A Business Intelligence System for Carbon Accounting and Sustainable Supply Chains," 2026 <i>International Conference on AI Innovations and Industry (ICAIII)</i> , Jeddah, Saudi Arabia, 2026, pp. 1-8, doi: 10.1109/ICAIII69475.2026.11521850
7	Mutaz Abdel Wahed, Secure and Intelligent Smart Hospitals: A Blockchain-Enabled Digital Twin Architecture, IGI Global 2026 Pages: 36, DOI: 10.4018/979-8-3373-8177-0.ch002
8	Mohammad, A. A. S., Shelash Mohammad, S. I., Vasudevan, A., Maniam, V. A., et al. (2026). Protection and analysis of healthcare data in cloud computing environments: A comprehensive review of security measures and analytical methods. In <i>Artificial Intelligence for Agile Business Solutions</i> .
9	Mohammad, A. A. S., Vasudevan, A., Al-Daoud, K. I., Abdel Wahed, M., et al. (2026). The evolution and impact of information management in computer science: A comprehensive research analysis. In <i>Artificial Intelligence for Agile Business Solutions</i> .
10	Shlash, A., Vasudevan, A., Mohammad, S. I., Al-Daoud, K., Al-Momani, A. M., et al. (2026). The evolution of cybersecurity behavior studies: Insights from a bibliometric perspective. In <i>Artificial Intelligence for Agile Business Solutions</i> .
11	Mohammad, A. A. S., Vasudevan, A., Mohammad, S. I. S., Al-Daoud, K. I., Balakrishnan, R., et al. (2026). The impact of big data on computer science: A comprehensive analysis. In <i>Artificial Intelligence for Agile Business Solutions</i> .
12	Mohammad, A. A. S., Vasudevan, A., Mohammad, S. I. S., Al-Daoud, K. I., Balakrishnan, R., et al. (2026). Genomic frontiers: Decoding the next-generation sequencing revolution through advanced data analytics. In <i>Artificial Intelligence for Agile Business Solutions</i> .
13	Shlash, A., Mohammad, S. I. S., Vasudevan, A., Maniam, V. A., et al. (2026). Bridging AI and business intelligence for enhanced sales strategies in healthcare. In <i>Artificial Intelligence for Agile Business Solutions</i> .
14	Mohammad, A. A. S., Vasudevan, A., Al-Daoud, K. I., Mohammad, S. I. S., Kutieshat, R. J., et al. (2026). The development and prospect of computer networks: An all-inclusive research review. In <i>Artificial Intelligence for Agile Business Solutions</i> .
15	Mohammad, A. A. S., Vasudevan, A., Al-Daoud, K. I., Mohammad, S. I. S., Ling, A. W. P., et al. (2026). Management information systems to business intelligence: Travel through changing information requirements. In <i>Artificial Intelligence for Agile Business Solutions</i> .
16	Mohammad, A. A. S., Al-Daoud, K. I., Vasudevan, A., Mohammad, S. I. S., Abdel Wahed, M., et al. (2026). An in-depth review of mathematical modeling's journey and applications in computer science. In <i>Artificial Intelligence for Agile Business Solutions</i> .
17	Shlash, A., Mohammad, S. I. S., Vasudevan, A., Maniam, V. A., et al. (2026). Unravelling the changing information science. In <i>Artificial Intelligence for Agile Business Solutions</i> .
18	Mohammad, A. A. S., Al-Daoud, K. I., Vasudevan, A., Mohammad, S. I. S., Alzboon, M. S., et al. (2026). The travel of data mining and its ripple in computer science. In <i>Artificial Intelligence for Agile Business Solutions</i> .
19	Shlash, A., Al-Daoud, K. I., Mohammad, S. I. S., Alzboon, M. S., et al. (2026). Cybersecurity techniques for protection of big data in business intelligence systems: Consequences on profitability and efficiency. In <i>Artificial Intelligence for Agile Business Solutions</i> .
20	Mohammad, A. A. S., Vasudevan, A., Al-Daoud, K. I., Mohammad, S. I. S., Alzboon, M. S., et al. (2026). The evolution and impact of computer simulation: A comprehensive research analysis. In <i>Artificial Intelligence for Agile Business Solutions</i> .
21	Shlash, A., Mohammad, S. I. S., Vasudevan, A., Abdel Wahed, M., et al. (2026). The computational transformation of social science research: A comprehensive bibliometric analysis. In <i>Artificial Intelligence for Agile Business Solutions</i> .
22	Mohammad, A. A. S., Shelash, S. I., Vasudevan, A., Tee, M., et al. (2026). The path and effects of computer software: An all-inclusive research approach. In <i>Artificial Intelligence for Agile Business Solutions</i> .
48	Shlash, A., Vasudevan, A., Mohammad, S. I. S., Balakrishnan, R., et al. (2026). Business intelligence in healthcare: Transforming data into strategic value. In <i>Artificial Intelligence for Agile Business Solutions</i> .

49	Shlash, A., Al-Sawaie, K. M., Al-Daoud, K., Abdel Wahed, M., et al. (2026). The effect of oil prices and the government expenditure on inflation. In <i>Artificial Intelligence for Agile Business Solutions</i> .
50	Mohammad, A. A. S., Mohammad, S. I. S., Al-Daoud, K. I., Vasudevan, A., Alzboon, M. S., et al. (2026). The evolution and impact of virtual reality in computer science: A comprehensive analysis. In <i>Artificial Intelligence for Agile Business Solutions</i> .
23	Shlash, A., Al-Daoud, K. I., Mohammad, S. I. S., Prasad, R. D. P., et al. (2026). Factors influencing intention to use AI in auditing practices: Evidence from Jordan. In <i>Artificial Intelligence for Agile Business Solutions</i> (Chapter).
24	Shlash, A., Al-Daoud, K. I., Vasudevan, A., Abdel Wahed, M., et al. (2026). Comparative analysis of mathematics research in English and Chinese: A bibliometric study (2010–2025). In <i>Artificial Intelligence for Agile Business Solutions</i> .
25	Shlash, A., Vasudevan, A., Al-Daoud, K. I., Abdel Wahed, M., et al. (2026). The evolution and future of human–computer interaction: A comprehensive research analysis. In <i>Artificial Intelligence for Agile Business Solutions</i> .
55	Wahed, M. A. (2026). Hybrid econometric and machine learning approaches for robust anomaly detection. In <i>Robust Methods for Anomaly Detection in Econometrics</i> (Vol. 1, p. 38).
56	Wahed, M. A. (2026). Real-time federated learning for autonomous defense robots: Enhancing distributed threat detection and response. <i>Journal of Information & Knowledge Management</i> , 25(01), 2550073.
57	Mowafaq Alzboon, Hussam Al-Shorman, Sabha Alka'awneh, Seyed Saatchi, Muhyeeddin Alqaraleh, Enas Samara, Mutaz Abdel Wahed, Sulieman Mohammad, Ala'a M. Al-Momani & Ayman Abu Haija (2025). The role of perceived trust in embracing artificial intelligence technologies: Insights from SMEs. Springer.
58	Saatchi, S. G., Wahed, M. K. Y. A., Alqaraleh, M. K. S., Al-Shorman, H. M., Alanazi, T., et al. (2025). The influence of compatibility on the acceptance of artificial intelligence in Kuwaiti universities. In <i>Intelligence-Driven Circular Economy: Regeneration Towards Sustainability</i> .
26	Al-Shorman, H. M., Saatchi, S. G., Alanaziand, T., Alzboon, M. S., et al. (2025). Evaluating artificial intelligence integration in education through integrating TAM and S–O–R. In <i>Intelligence-Driven Circular Economy: Regeneration Towards Sustainability</i> .
27	Alka'awneh, S. M. N., Halim, H. A., Wahed, M. K. Y. A., Alqaraleh, M. K. S., Alzboon, M. S., et al. (2025). Perceived security and privacy in artificial intelligence adoption: Extending TAM in the context of Jordanian SMEs. In <i>Intelligence-Driven Circular Economy: Regeneration Towards Sustainability</i> .
28	Wahed, M. K. Y. A., Al-shanableh, N., Saatchi, S. G., thwaib, B. M. S. A., et al. (2025). The influence of relative advantage on the acceptance of artificial intelligence in Jordanian SMEs. In <i>Intelligence-Driven Circular Economy: Regeneration Towards Sustainability</i> .
29	Wahed, M. A., Alqaraleh, M., Salem Alzboon, M., & Al-Batah, S. M. (2025). Evaluating AI and machine learning models in breast cancer detection: A review of convolutional neural networks (CNN) and global research trends. <i>LatIA</i> .
30	Wahed, M. A., Alqaraleh, M., Alzboon, M. S., & Al Batah, M. S. (2025). Application of artificial intelligence for diagnosing tumors in the female reproductive system: A systematic review. <i>Multidisciplinar (Montevideo)</i> , 15.
31	Wahed, S. A., & Wahed, M. A. (2025). AI-driven digital well-being: Developing machine learning model to predict and mitigate internet addiction. <i>LatIA</i> , 73.
32	de la Salud, R. C., & de la Inteligencia, T. I. (2025). AI Rx: Revolutionizing healthcare through intelligence, innovation, and ethics. <i>Seminars in Medical Writing and Education</i> , 4(35), 35.
33	Wahed, S. A. W. A., Shdefat, R. S., & Wahed, M. A. (2025). A machine learning model for diagnosis and differentiation of schizophrenia, bipolar disorder and borderline personality disorder. <i>LatIA</i> , 3, 133.
34	Wahed, M. A., & Wahed, S. A. (2025). Assessing internet addiction levels among medical students in Jordan: Insights from a cross-sectional survey. <i>International Journal of Advanced Health Science and Technology</i> , 5(1), 12-18.
35	Wahed, M. A., Wahed, S. A., & Alzoubi, A. E. (2025). AI-driven cybersecurity for telemedicine: Enhancing protection through autonomous defense systems. In <i>AI-Driven Security Systems and Intelligent Threat Response Using Autonomous Defense</i> .
36	Wahed, M. A., & Wahed, S. A. (2025). Autonomous defense systems for surgical robots: Ensuring cybersecurity in robotic-assisted surgery. In <i>AI-Driven Security Systems and Intelligent Threat Response Using Autonomous Defense</i> .
37	Wahed, S. A., & Wahed, M. A. (2025). Machine learning-based prediction and classification of psychiatric symptoms induced by drug and plants toxicity. <i>SAP Gamification and Augmented Reality</i> , 3, 107.
38	Wahed, S. A., & Wahed, M. A. (2025). AI-deep learning framework for predicting neuropsychiatric outcomes following toxic effects of drugs on the brain. <i>Multidisciplinar (Montevideo)</i> , 3, 1.
39	Wahed, S. A., & Wahed, M. A. (2025). Predicting post-surgical complications using machine learning models for patients with brain tumors. <i>International Journal of Open Information Technologies</i> , 13(4), 43-48.
40	Wahed, M. A., Alzoubi, A. E., Wahed, S. A., & Kursheva, J. (2025). AI-driven approach to predict high-risk newborns to reduce NICU admission overcrowding. In <i>2025 1st International Conference on Computational Intelligence Approaches...</i>
41	Wahed, M. A. (2025). AI-enhanced threat intelligence for proactive zero-day attack detection. <i>Gamification and Augmented Reality</i> , 3, 2.
42	Wahed, S. A., & Wahed, M. A. (2025). Automated detection of histological hallmarks in frontotemporal lobar degeneration using deep learning. <i>International Journal of Advanced Health Science and Technology</i> , 5(3), 91-96.
43	Wahed, S. A., Wahed, M. A., & Alzoubi, A. E. (2025). Optimizing colorectal cancer treatment with unconventional therapies: A data-driven AI approach for comprehensive image-based evaluation and treatment ranking. In <i>2025 1st International Conference on Computational Intelligence Approaches...</i>

44	Wahed, M. A. (2025). Enhanced machine learning algorithm for detection and classification of phishing attacks. <i>International Journal of Open Information Technologies (INJOIT)</i> , 13(1), 1-6.
45	Wahed, M. A., Halasa, A., & Alzboon, M. S. (2025). Enhancing real-time detection of distributed denial of service (DDoS) attacks on IoT infrastructure. In <i>2025 5th International Conference on Emerging Smart Technologies and Applications</i> .
46	Wahed, M. A. (2025). Artificial intelligence techniques for classification of regular and irregular tire wear. In <i>2025 Intelligent Technologies and Electronic Devices in Vehicle and Road Transport Complex (TIRVED)</i> .
47	Wahed, M. A., & Wahed, S. A. (2025). Predicting postoperative complications in glioblastoma patients using machine learning models. <i>SAP Health and Policy</i> , 4, 406.
51	Wahed, M. A. (2025). AI, quantum computing, and beyond: Assessing future cybersecurity threats and risk management strategies. <i>SAP Gamification and Augmented Reality</i> , 3, 264.
52	Wahed, S. A., & Wahed, M. A. (2025). Optimizing antibiotics prophylaxis in neurosurgery through machine learning: Predicting infections and personalizing treatment strategies. <i>SAP Gamification and Augmented Reality</i> , 3, 108.
53	Wahed, M. A., & Wahed, S. A. (2025). Bi-directional AI framework for differentiate psychiatric disorders and predicting symptoms from drug-induced neurotoxicity. <i>Multidisciplinary (Montevideo)</i> , 3, 230.
54	Wahed, S. A., & Wahed, M. A. (2025). A deep learning framework for unraveling toxicokinetic-neuropsychiatric interactions. <i>International Journal of Open Information Technologies</i> , 13(7), 77-82.
59	Wahed, M. A., Alzboon, M. S., Alqaraleh, M., Ayman, J., Al-Batah, M., & Bader, A. F. (2025). Automating web data collection: Challenges, solutions, and Python-based strategies for effective web scraping. In <i>7th International Conference on Internet Applications, Protocols, and Services</i> .
60	Wahed, M. A., Alzboon, M. S., Alqaraleh, M., Halasa, A., Al-Batah, M., & Bader, A. F. (2025). Comprehensive assessment of cybersecurity measures: Evaluating incident response, AI integration, and emerging threats. In <i>7th International Conference on Internet Applications, Protocols, and Services</i> .
61	Wahed, M. A., Alzboon, M. S., Alqaraleh, M., Al-Batah, M., Bader, A. F., & Wahed, S. A. (2025). Enhancing diagnostic precision in pediatric urology: Machine learning models for automated grading of vesicoureteral reflux. In <i>7th International Conference on Internet Applications, Protocols, and Services</i> .
62	Alzboon, M. S., Alqaraleh, M., Wahed, M. A., Alourani, A., Bader, A. F., & Al-Batah, M. (2025). AI-driven UAV distinction: Leveraging advanced machine learning. In <i>7th International Conference on Internet Applications, Protocols, and Services</i> .
63	Alqaraleh, M. (2024). Emerging technologies in the Middle East: Artificial intelligence adoption and performance expectancy in Jordanian SMEs. <i>Studies in Computational Intelligence</i> .
64	Al-Shanableh, N. (2024). Impact of user interface attractiveness on the willingness to use artificial intelligence among Jordanian SMEs. <i>Studies in Computational Intelligence</i> .
65	Alqaraleh, M., Alzboon, M. S., Al-Batah, M. S., Wahed, M. A., Abuashour, A., et al. (2024). Harnessing machine learning for quantifying vesicoureteral reflux: A promising approach for objective assessment. <i>International Journal of Online & Biomedical Engineering</i> , 20(11).
66	Muhyeddin, A., Mowafaq, S. A., Al-Batah, M. S., & Mutaz, A. W. (2024). Advancing medical image analysis: The role of adaptive optimization techniques in enhancing COVID-19 detection, lung infection, and tumor segmentation. <i>LatIA</i> , 2, 74.
67	Al-Batah, M. S., Al-Kwaldeh, E. R., Wahed, M. A., Alzyoud, M., & Al-Shanableh, N. (2024). Enhancement over DBSCAN satellite spatial data clustering. <i>Journal of Electrical and Computer Engineering</i> , 2024(1), 2330624.
68	Wahed, M. A. (2024). Real-time intrusion detection and traffic analysis using AI techniques in IoT infrastructure. In <i>1st International Conference on Emerging Technologies for Dependable Internet of Things</i> .
69	Wahed, M. A., Alzboon, M. S., Alqaraleh, M., Halasa, A., Al-Batah, M., & Bader, A. F. (2024). Technological innovations in autonomous vehicles: A focus on sensor fusion and environmental perception. In <i>2024 7th International Conference on Internet Applications, Protocols, and Services</i> .
70	Alsadi, J., Alawneh, A., Khatatbeh, A. A., Abdel Wahed, M., Alseafan, M., et al. (2024). Evaluating processing parameter effects on polymer grades and plastic coloring: Insights from experimental design and characterization studies. <i>Polymers</i> , 16(23), 3409.
71	Alsadi, J., Al Btoush, F. A. M., Alawneh, A., Khatatbeh, A. A., Alseafan, M., et al. (2024). Optimization of execution microscopic extrusion parameter characterizations for color polycarbonate grading: General trend and Box–Behnken designs. <i>Applied Sciences</i> , 14(11), 4848.
72	Alrashdan, M. T., Wahed, M. A., & Aljawarneh, N. M. (2024). The impact of encrypted data confidentiality in the accounting management system performance in terms of employees' passion and customer trust. <i>International Journal of Advances in Soft Computing & Its Applications</i> , 16(2).
73	Alrashdan, M. T., Wahed, M. A., Aljarrah, E., Tubishat, M., & Aljawarneh, N. M. (2024). The impact of data recovery criteria, data backup schedule and data backup processes on the efficiency of data recovery management in data centers. <i>International Journal of Data and Network Science</i> , 8(4), 2539-2546.
74	Al-Batah, M. S., Zabian, A., & Wahed, M. A. (2011). Suitable features selection for the HMLP network using circle segments method. <i>European Journal of Scientific Research</i> , 67(1), 52-65.

Certifications:

- ✓ PCEPT™ – Certified Entry-Level Python Programmer (28/06/2026)
- ✓ Cybersecurity Fundamentals (IBM) 2026
- ✓ CC Certified in Cybersecurity (CC) (ISC²) 2026
- ✓ Fortinet Certified Associate in Cybersecurity (Fortinet) 2026
- ✓ Networking Devices and Initial Configuration (CISCO Networking Academy) 2026
- ✓ Fortinet Certified Fundamentals in Cybersecurity. (Fortinet)
- ✓ Python Essentials. (CISCO Networking Academy)
- ✓ Purchasing management course using computer (University of Jordan).
- ✓ PLC (programmable logic controller) (Jordan E-Association).
- ✓ ISO 9000 & internal auditing (University of Jordan).
- ✓ Technical writing reports (Arabic/English) (Jordan E-Association).
- ✓ Comprehensive management course (Jordan E-Association).
- ✓ Android training program (Jordan E-Association).
- ✓ PHP I: Foundation (USAID).
- ✓ PHP II: Higher Structures (USAID).
- ✓ PHP Test Prep: 5.3 Certification Training (USAID).
- ✓ TOT and Communication Skills (USAID).
- ✓ Instructional Design (USAID).

Membership:

- *IEEE Senior Member.*
- *IEEE Jadara Student Branch Counselor*

Research Interests: *Network Traffic Analysis, Network Fault Detection, AI and machine learning, Cybersecurity, and Computer Network Security*