



Dr. Mohammed Al-Shalabi
(Assistant Professor)
Curriculum Vitae

ADDRESS	Computer Science and Department, University of Ha'il, Ha'il, KSA.		
	Tel.:		
	E-mail: mohammedalshalabi@yahoo.com moh.alshalbi@uoh.edu.sa		
	Research Gate URL: https://www.researchgate.net/profile/Mohammed-Shalabi		
	Scholar URL: https://scholar.google.com/citations?hl=en&user=wwktPyoAAAAJ		

PERSONAL DATA	Born: Dec 12, 1981; Place: Irbid, Jordan; Nationality: Jordanian; Status: Married-4 kids.		
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EDUCATION	<ul style="list-style-type: none">• Ph.D. Computer Science, Wireless Sensor Networks, International Advanced IPv6 Centre, Universiti Sains Malaysia, Penang, Malaysia, 2018; Rate: Excellent.• M. S. Computer Science, Information Security and Cryptography, Yarmouk University, Irbid, Jordan 2005; GPA: 89.3 ; Rate: Excellent.• B. S. Computer Science and Computer Information Systems, Philadelphia University, Amman, Jordan, 2003; GPA: 88.5; Rate: Excellent.
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TITLES OF THESIS	<ul style="list-style-type: none">• Ph. D. Enhanced Technique for Maximizing Wireless Sensor Networks Lifetime Based on Utilizing the Phenomena of Nodes Overlapping and Data Transmission.• M. S. Simulation of Certification Authority Process.
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RESEARCH INTERESTS	<ul style="list-style-type: none">• Wireless Sensor Networks.• Internet of Things and smart city systems.• Information and Network Security.• Cryptographic Algorithms.
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- Computer Networks.
- Routing Protocols.
- Mobile Communication System.
- Data Mining and Data Warehousing.
- Databases.
- E-Commerce.
- Data Sciences.
- Optimization.
- Knowledge Discovery.
- Expert systems.

ACADEMIC EXPERIENCE

- 2023-present **Assistant Profesor**, Computer Science Department, University of Ha'il, Ha'il, KSA.
 - 2019/2023 **Assistant Professor**, Information Systems and Networks Department, The World Islamic Sciences and Education University (WISE), Amman, Jordan.
 - 2007/2017 **Lecturer**, IT Department, Sharjah University, Khor Fakkan, UAE.
 - 2005/2007 **Lecturer**, Applied Computer Science Department, Philadelphia University, Amman, Jordan.
 - 2004/2005 **Teacher**, Model School, Yarmouk University, Irbid, Jordan.
 - 2003/2004 **Teaching Assistant**, CS Department, Yarmouk University, Irbid, Jordan.
 - 2003/2005 **Programming Languages and ICDL Trainer**, Al-Najjar Training Center, Irbid, Jordan.
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COURSES TAUGHT

- Information Security and Encryption
- IoT Security
- Linux
- Networks Security
- Intrusion Detection Systems
- Data Cryptography
- Wireless Security
- Software Engineering
- Computer Networks
- Networks Protocols
- Principles of Data Communications Through Networks
- Wireless Networks
- Object Oriented Programming (JAVA)
- Web Programming (ASP.NET, JSP)
- Selective Programming Language (VB.NET, Python, C++)
- Data Structure.
- Assembly.
- User Interface Design
- Computer Graphics Using C++

- JAVA Language
- Java Server Pages (JSP)
- HyperText Markup Language (HTML)
- Operating Systems
- Design and Analysis of Algorithms
- Multimedia (Adobe Flash)
- E-Commerce
- Database Applications
- Computer Architecture
- System Analysis and Design
- Visual Basic (VB.Net) Language
- Active Server Pages (ASP.Net) Language
- Web Design (Dreamweaver)
- Advanced Web Design
- Graduation Project
- Field Training
- Computer Applications Development
- Computer Skills
- FrontPage
- Visual Basic (VB) Language

BOOK CHAPTERS

- **Al-Shalabi**, M., Anbar, M. and Wan, T.C., 2018, June. Proposed Mechanism Based on Genetic Algorithm to Find the Optimal Multi-hop Path in Wireless Sensor Networks. In *Recent Trends in Data Science and Soft Computing*, (pp. 510-522). Springer, Cham.
- **Al-Shalabi**, M., Anbar, M. and Wan, T.C., 2018. Genetic algorithm based protocols to select cluster heads and find multi-hop path in wireless sensor networks. In *MATEC Web of Conferences* (Vol. 218, p. 03019). EDP Sciences.

JOURNAL PAPERS

- Obeidat, A., **Al-Shalabi**, M.A. (2022). An Efficient Approach towards Network Routing using Genetic Algorithm. *International Journal Of Computers Communications & Control*, vol. 17, issue 5. ISI Q3 IF:2.093, SCOPUS Q2.
- **Mohammed Al-Shalabi**, Jafar Ababneh, Waled Abdulraheem (2021). A Novel Adjacent Sensors-Based Mechanism to Increase Performance of Wireless Sensor Networks. *International Journal of Antennas and Propagation*, vol. 2021, Article ID 6667123, 9 pages, 2021. (ISI)
- Obeidat, A., Obeidat, R., **Al-Shalabi**, M.A. (2020). The Effectiveness of Adopting e-Learning during COVID-19 at Hashemite University. *International Journal of Advanced Computer Science and Applications*, 11, 12, 96-104. (SCOPUS).
- **Al-Shalabi**, M.A. (2020). COVID-19 Symptoms Monitoring Mechanism using Internet of Things and Wireless Sensor Networks.

International Journal of Computer Science & Network Security, 20, 8, 16-20. (EBSCO).

- Obeidat, A., **Al-Shalabi**, M.A., Addy, A., Wafaa', Al. (2020). Maximizing Profits Using Genetic Algorithm. *International Journal of Scientific & Technology Research*, 9, 6, 359-364. (Scopus).
- **Al-Shalabi**, M.A., Anbar, M., Wan, T.C., Qattan, Z. (2019). Energy Efficient Multi-hop Path in Wireless Sensor Networks Using Enhanced Genetic Algorithm. *Information Sciences*, 500, 259-273. (ISI Impact Factor 4.305, Q1).
- **Al-Shalabi**, M.A., Anbar, M., Obeidat, A. (2019). Alternating Sensing Process to Prolong the Lifetime of Wireless Sensor Networks. *Journal of Theoretical and Applied Information Technology (JATIT)*, 97, 7, 2132-2141. (Scopus).
- **Al-Shalabi**, M.A., Anbar, M., Wan, T.C., Khasawneh, A. (2018). Variants of the Low-Energy Adaptive Clustering Hierarchy Protocol: Survey, Issues and Challenges. *Electronics*, 7, 136. (ISI Impact Factor 2.110, Q2).
- **Al-Shalabi**, M.A. and Obeidat, A. (2014). New Techniques to Enhance the Promotions in E-Stores. *The Business & Management Review*, 5(2), p.116.
- Obeidat, A., **Al-Shalabi**, M.A. (2013). Improving the Performance of the Networks Using Genetic Algorithm. *International Journal of Advances in Computer Networks and its Security (IJCNS), A Unit of UACEE Journals*. pp. 33-36.
- **Al-Shalabi**, M.A. and Al-Shalabi, M.O. (2012). An Approach for Mac-Protocol in Wireless Sensor Network-The Group Split Property (GSP)-. *Annals. Computer Science Series*, 10(1).
- **Al-Shalabi**, M.A., Maqableh, M. and Obeidat, A. (2012). The Efficiency of Encryption Algorithms in Encrypting Large Files. *Annals. Computer Science Series*, 10(2).
- **Al-Shalabi**, M.A. (2011). Programs Optimization in GCC Compiler. *Annals. Computer Science Series*, 9(2).

CONFERENCE PAPERS

- **Al-Shalabi**, M.A., Anbar, M., Wan, T.C. (2018). Proposed Mechanism based on Genetic Algorithm to Find the Optimal Multi-hop Path in Wireless Sensor Networks. In *International Conference of Reliable Information and Communication Technology (IRICT 2018)*. Springer. Kuala Lumpur, Malaysia.
- **Al-Shalabi**, M.A., Anbar, M., Wan, T.C. (2018). Genetic Algorithm based Protocols to Select Cluster Heads and Find Multi-hop Path in Wireless Sensor Networks: Review. In *International Conference on Industrial Electrical and Electronics (ICIEE 2018)*. Banten, Indonesia. (Indexed in Scopus).
- **Al-Shalabi**, M.A., Obeidat, A. (2014). New Technique to Enhance the Promotions in E-Stores. In *International Academic Conference (IACP 2014)*. Paris, France.

- Obeidat, A. and **Al-Shalabi**, M.A. (2013). Improving the Performance of the Networks Using Genetic Algorithm, *In Proceedings of the ACIT Conference*, kuala lumpur, Malaysia.
- **Al-Shalabi**, M.A. and Maqableh, M. (2013). Support Offer in E-Commerce Using Data Mining Techniques. *In Proceedings of the International Academy of Business and Public Administration Disciplines (IABPAD 2013)*. Istanbul, Turkey.
- Obeidat, A. and **Al-Shalabi**, M.A. (2013). Decision support system for product promotion using GA. *In 15th International Conference on Electronics and Communication Systems Engineering (ICECSE 2013)*. Istanbul, Turkey. (ISI indexed).

**REVIEWER IN
THESE JOURNALS
and CONFERENCES**

- Telecommunication Systems (TELS), ISI indexed journal, Springer.
 - IEEE Access, ISI indexed journal.
 - International Conference On Advances In Cyber Security (ACeS), Second and Third conferences (2020 and 2021), USM, Malaysia.
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**COMPUTER
LANGUAGES**

- C
 - C++
 - JAVA
 - Visual Basic (VB)
 - Visual Basic (VB.NET)
 - Active Server Pages (ASP.NET)
 - Java Server Pages (JSP)
 - HyperText Markup Language (HTML) and CSS
 - Python
 - MATLAB
 - Structured Query Language (SQL) Server
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PROJECTS DESIGN

- Internet Security and E-Commerce. *Philadelphia University*.
- Simulation of the Certification Authority in the Internet. *Yarmouk University*.
- Natural Language Processing (SQL queries processing). *Yarmouk University*.
- Making Decisions about the products in stores using Data Mining techniques. *Yarmouk University*.
- Client-Server model for SQL queries. *Yarmouk University*.
- Secure transactions via Internet for a mobile' store. *Yarmouk University*.
- Apply most of security algorithms on a text files with my own modifications on that algorithms. *Yarmouk University*.
- Develop an online examination system for one of our courses in the IT department, *UOS*.
- Develop an academic advising system to help the advisors in the advising process, *UOS*.
- Design and implement a set of online questionnaires targeting the students in the college and the outside community, in the purpose of the strategic plan in

the college, *UOS*.

**ADMINISTRATIVE
AND
PROFESSIONAL
ACTIVITIES**

- Chairman of Students Activities committee at UOH, 2023-Now.
- Member of Academic Development committee at UOH, 2023-Now.
- Member of Course Curriculum Committee, WISE University, 2022-2023.
- Member of Training and Seminars Committee, WISE University, 2022-2023.
- Seminar at Philadelphia University. E-Commerce and Internet Security (2002).
- Seminar at Yarmouk University. Simulation of Certification Authorities (2005).
- Member of the Quality Assurance and Accreditation Committee at Philadelphia University.
- Member of the Quality Assurance and Accreditation Committee at University of Sharjah (familiar with ABET accreditation).
- Member of the Lectures and Seminars Committee at University of Sharjah.
- Coordinator of many courses at University of Sharjah.
- Design many courses on the web site of the University of Sharjah using the course genie software.
- Attend, present, and organize many seminars and workshops at University of Sharjah.
- Attend, present, and organize many training courses about the using of the blackboard at University of Sharjah.
- Organize many seminars and workshops at University of Sharjah.
- Attend and Organize workshops about the measurement of the courses' outcomes at University of Sharjah.
- Use a specific program to measure and analyze the outcomes of each course that I taught in each semester at University of Sharjah (outcomes assessment).
- Member of the editorial board of the college magazine at University of Sharjah.
- Member of many committees for developing new programs and curriculum at University of Sharjah.
- Experience in course assessment using special programs.
- Experience in teaching and supervision of lab sessions.

**TRAINING
COURSES AND
WORKSHOPS**

- E-Learning, Workshop at WISE University, Jordan, 18-19 Dec 2019.
- Learning Outcomes and Assessment Methods, Workshop at the University of Sharjah, United Arab Emirates, 08-Dec-2016.
- Skills of Using Advanced Computer Technologies in the Field of Academic Work, Training Course, organized by the Continuous Learning Center at the University of Sharjah, United Arab Emirates, 12-May-2016.
- Team Based Learning (TBL) in Higher Education, Workshop, organized by the directorate of Quality Assurance, Institutional

Effectiveness and Accreditation Unit at the University of Sharjah, United Arab Emirates, 24-Nov-2011.

- Art of Delivering Outstanding Service, Workshop at the University of Sharjah, United Arab Emirates, 28-Mar-2011.
- Instructional Technologies, Training Course, organized by the Instructional Technologies Unit at the University of Sharjah, United Arab Emirates, during Fall 2009-2010.
- Blackboard System, Training Course at the University of Sharjah, United Arab Emirates, 25-Sep-2008.
- ABET Accreditation Standards in UAE, Workshop, organized by the Quality Assurance, Institutional Effectiveness and Accreditation Unit at the University of Sharjah, United Arab Emirates, 2014.

SUPERVISED GRADUATION PROJECTS

- Penetration Testing Tool.
- Student Certification Using Blockchain.
- Jordan Motorcycle Guide.
- University Management System Based on Natural Language Processing.

CERTIFICATES AND AWARDS

- ICDL Certificate.
- Many workshops and seminars attendance and organizing certificates (Blackboard, E-Learning, Outcomes Measurement ...etc.).
- Research Award from IABPAD conference in Istanbul, Turkey.
- Many certificates of attending conferences.
- Certificate of Excellence in Community Service, Community College, University of Sharjah, United Arab Emirates.
- Certificates for reviewing papers in many journals and conferences.

LANGUAGES

- **Arabic:** Native.
- **English:** Excellent reading and writing.

REFERENCES

- **Assistant Professor** Mohammed Anbar, IPv6 Centre, Universiti Sains Malaysia, Penang, Malaysia.
E-mail: anbar@nav6.usm.my
- Associate Professor Wan Tat-Chee, Computer Science Department, IPv6 Center, Universiti Sains Malaysia, Penang, Malaysia.
E-mail: tcwan@usm.my
- **Assistant Professor** Waleed Amin, Information Systems and Networks Department, The World Islamic Sciences and Education University (WISE), Amman, Jordan.
E-mail: waleed.amin@wise.edu.jo