

Majed A. Alowaidi

Assistant Professor

College of Computer and Information Science (CCIS), Majmaah University,

Majmaah, Saudi Arabia

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Education

Ph.D. Electrical and Computer Engineering, University of Ottawa, Ottawa, Canada, 2018

M.Sc. Electrical and Computer Engineering, University of Ottawa, Ottawa, Canada, 2012

B.Sc. Computer Technology Engineering (2nd Honor degree), Riyadh College of Technology, Riyadh, Saudi Arabia, 2006

Education Experience

Majmaah University

MAJMAAH (CENTRAL AREA, KSA)

Member of Postgraduate Students Affairs Committee

Aug '20 – present

I have been a member of a committee that handles postgraduate students' issues since August 2020

Member of CCIS Advisory Council Board

Aug '20 – present

I have been a member of a the Advisory Council Board of the College of Computer and Information Sciences since April 2019

IT Communication Officer

Dec '19 – Until now

IT Officer of Majmaah University for delegating with Ministry of CIT regarding the Digital Transform Plan.

Vice dean of Postgraduate Studies and Scientific Research

Oct '19 – Until now

Based on a decision of the Majmaah University rector, I have been leading the postgraduate study and scientific research vice-deanship since February 2019.

Member of College of Computer and Information Science (CCIS) Council

Feb '19 – present

Based on a decision of the Majmaah University rector, I have been a member of CCIS Council

Member of Advisory Committee of the Information Systems Program at Knowledge University

Dec. '21 – present

Based on a letter of the Dean of Applied Sciences College, Knowledge University, I have been a member of CCIS Council

Member of Advisory Committee of the IT department

Oct. '19 – present

I have been nominated by the CCIS dean to be one of the IT Department councilor members.

Assistant Professor

April '19 – present

Based on a decision of the Majmaah University rector, I have been appointed as Assistant Professor in the Information Technology Department, CCIS, Majmaah University.

Information Technology Department Head

Feb '19 – Sept. 2021

Based on a decision of the Majmaah University rector, I led the IT department for 31 months. since Feb 2019

Taqnia Cyber

Aug. '18 - Aug '22 '22

Cyber Security Compliance Specialist

- CyberSecurity Strategic Planning Course (lead by me)

CCIS Bachelor courses Teaching

Jan. '19, April '20, Jan. '21

- Selected Topics in System Administration IT429
- System Administration and Maintenance IT432
- Network Management & Security CS445
- Seminar IT399
- Information Security CS450

CCIS Master courses Teaching

Winter '19., Winter '21 & Fall 2022

Master MCSDF courses

- Information Security Law, Policy, and Ethics IT 603

University of Ottawa

OTTAWA (ONTARIO, CANADA)

Teaching Assistant (TA)

Winter 2015 & Winter 2016

Computer Communication Network ELG5374, University of Ottawa, Canada

Teaching Assistant (TA)

Introduction to Network Design CEG4190, University of Ottawa, Canada

Winter 2015 & Winter 2016

Teaching Assistant (TA)

Computer Network Management CEG4396, University of Ottawa, Canada

Fall 2015 & Winter 2016

Technical Experience**Freelancer**

RIYADH, (KSA)

Cybersecurity Consultant

Nov. 2022 – current

Part-time consultant of Cybersecurity in the Cybersecurity Department in a government authority

Cybersecurity Consultant

Nov. 2021 – 31 Aug 2022

Part-time consultant of Cybersecurity GRC and SOC in Human Rights Commission

Saudi Arabian Cultural Bureau (SACB)

OTTAWA, (CANADA)

IT Consultant

Jan '09 – April '11

I was a part-time consultant at IT Dept., SACB, to help them choose the optimal hardware and security procedures for their internal network.

King Abdulaziz for Science and Technology (KACST)

RIYADH (SAUDI ARABIA)

Network and Security Administrator

Jan '07 – Jan '08

I was hired in Internet Services Unit (ISU) as a network administrator and I was responsible of the customers' networks including leased lines, connecting them to the KACST, etc.

Department of IT, National Information Center (NIC)

RIYADH (SAUDI ARABIA)

Network technician, NIC

1994 – Sept. '06

I started working as a PC technician then I directly switched as network administrator at one of departments of the National Information Center at Ministry of Interior in Riyadh

New Horizons Centers

RIYADH (KSA)

CNAP teacher

2003

I taught temporarily as a part time for about more than a month as Cisco Networking Academy Program instructor.

Microsoft Windows & Office instructor

2004

As well, I taught in other location of New Horizons Centers a curriculum of Microsoft applications like the most well know Windows and Office for almost three months.

Awards, Appreciation and achievements

1. **Medal of Merit of the third degree for blood donation** granted by King Fahad bin Abdulaziz in 1995.
2. **The best graduate project** among graduate projects competition that held in Riyadh Technology College 2006
3. **The Excellence award** granted by Saudi Cultural Bureau in Canada in January 2013
4. **The Excellence award** granted by Saudi Cultural Bureau in Canada in August 2013
5. **Appreciation certificate** by the Saudi Embassy for the participation in the Multiculturalism Week in Ottawa Summer 2010
6. **Appreciation certificate** by Al Majmaah University for the participation in the Employment Exhibition in Ottawa Winter 2013
7. **2017 Best Demo at the Sensor App. Development Workshop.** by SAS17 March, 2017
8. **The Excellence Award** granted by Faculty of Engineering, University of Ottawa in December 2018
9. **Grant Award for Research Group Fund** granted by Deanship of Scientific Research, Majmaah University 2019
10. **Three Grant Awards for Excellent Research** granted by Deanship of Scientific Research, Majmaah University 2020 & 2021

Publication, conferences, and workshops

1. **M. A. Alowaidi**. "Modified Intrusion Detection Tree with Hybrid Deep Learning Framework based Cyber Security Intrusion Detection Model." Accepted at IJACSA (2022): 315-322.
2. SK Sharma, MI Al-Wanain, **M. Alowaidi**, H Alsaghier. "Mobile healthcare (m-Health) based on artificial intelligence in healthcare 4.0." The International FLAIRS Conference Proceedings, Expert Systems, 2022/7/18, e13025.
3. **M. Alowaidi**, M. Alshehri. "Domain Adaptive Scene Text Localization in Night View Images." The International FLAIRS Conference Proceedings, 2022.
4. **M. A. Alowaidi**. "Fuzzy efficient energy algorithm in smart home environment using Internet of Things for renewable energy resources." IEEE Access 9 (2021): 72040-72054.
5. **M. A. Alowaidi**. "Hate Speech Detection Using Modified Principal Component Analysis and Enhanced Convolution Neural Network on Twitter Dataset." (2021).
6. Kraiem, Habib, Aymen Flah, Naoui Mohamed, **M. A. Alowaidi**, Mohit Bajaj, Shailendra Mishra, Naveen Kumar Sharma, and Sunil Kumar Sharma. "Increasing Electric Vehicle Autonomy Using a Photovoltaic System Controlled by Particle Swarm Optimization." Energy Reports, Volume 8, 2022: 2462-2471.
7. Bhardwaj, Shivam, **M. A Alowaidi**, Rashmi Bhardwaj, and Sunil Kumar Sharma. "Machine learned hybrid Gaussian analysis of COVID-19 pandemic in India." Results in Physics (2021): 104630.
8. Bajaj, Mohit, Aymen Flah, **M. A. Alowaidi**, Naveen Kumar Sharma, Shailendra Mishra, and Sunil Kumar Sharma. "A Lyapunov-Function Based Controller for 3-Phase Shunt Active Power Filter and Performance Assessment Considering Different System Scenarios." IEEE Access 9 (2021): 66079-66102.
9. A. Flah, **M. A. Alowaidi**, M. Bajaj, N. K. Sharma, S. Mishra, and S. K. Sharma, "Electric Vehicle Model based on Multiple Recharge System and A Particular Traction Motor Conception," in IEEE Access, 23 March 2021.
10. S. Mishra, S. K. Sharma and **M. A. Alowaidi**, "Multilayer self-defense system to protect enterprise cloud," Computers, Materials & Continua, vol. 66, no.1, pp. 71–85, 2021.
11. S. K. Sharma, S. Bhardwaj, R. Bhardwaj and **M. Alowaidi**, "Nonlinear time series analysis of pathogenesis of covid-19 pandemic spread in saudi arabia," Computers, Materials & Continua, vol. 66, no.1, pp. 805–825, 2021.
12. M. Bajaj, A. K. Singh, **M. Alowaidi**, N. K. Sharma, S. K. Sharma and S. Mishra, "Power Quality Assessment of Distorted Distribution Networks Incorporating Renewable Distributed Generation Systems Based on the Analytic Hierarchy Process," in IEEE Access, vol. 8, pp. 145713-145737, 2020
13. Shailendra Mishra, **M. A. Alowaidi**, Sunil Sharma, Sunil Kumar Sharma, "Impact of security standards and policies on the credibility of e-government", Journal of Ambient Intelligence and Humanized Computing, To appear in Springer 2021
14. **M. Alowaidi**, Mohammad Aljaafreh, Ali Karime and Abdulmotaleb El Saddik, A Fuzzy Markup Language-Based Approach for a Quality of Location Inference as an Environmental Health Awareness", International Journal of Extreme Automation and Connectivity in Healthcare (IJEACH), 2018.
15. **Majed Alowaidi**, Ali Karime, Mohammed Aljaafrah, and Abdulmotaleb El Saddik, Empirical Study of Noise and Air Quality Correlation Based on IoT Sensory Platform Approach, IEEE I2MTC 2018, Houston, USA.
16. Al Jaafreh M., **Alowaidi M.**, Al Osman H., El Saddik A. (2018) Multimodal Systems, Experiences, and Communications: A Review Toward the Tactile Internet Vision. Recent Trends in Computer Applications. Springer.
17. **Majed Alowaidi**, Md. Abdur Rahman, Elham Hassanain, and Abdulmotaleb El Saddik, "A Semantic Notification Approach for IoT-Based Sensory Data: Demo Abstract", ACM Aril 2017. 5) Abdullah Aljanah, **Majed Alowaidi** and Richard Yu, "Green Cellular Networks with Renewable Energy Resources Using Stream Control Transmission Protocol (SCTP)", 2015
18. B. Hafidh, H Al Osman, **M. Alowaidi**, A El-Saddik, XP Liu, "F-Glove: A glove with force-audio sensory substitution system for diabetic patients", 2013
19. **Majed Alowaidi**, F. Richard Yu, Abdulmotaleb El Saddik, and Abdullah Aljanah, "Improving Performance of Smart Grid Communications using Multi-homing and Multi-streaming offered by SCTP", , Nov. 2012.

20. IEEE SmartGridComm 2012 Symposium, Tainan, Taiwan, Nov 5-8 . 2012.
21. Winter Enrichment Program (**WEP**), **KAUST**, Thuwal, KSA, January 2013.
22. INCOSE Canada Chapters, Systems Engineering for the Internet of Things* (IoT)", 20 Sept. 2016
23. IoT613 Meetup Workshop in Ottawa, 26 Sep. 2016.
24. SAS17 Conference in Glassboro, NewJersy, US March 12-15, 2017
25. CPS Week in Pittsburgh, PA, USA April 18-21, 2017.

Training, Certifications, and Associations

1. Networking

Cisco Networking Academy Program (CNAP) training NEW HORIZON CENTERS, RIYADH (SAUDI ARABIA)

Onsite extenisve hands-on training

March '03 – Sept '03

Theoretical and practical training has been conducted by New Horizon Centers for 5 months that covered the all CCNA certificate aspect.

2. Security

CEH & CHFI training

MAJMAAH UNI., MAJMAAH (SAUDI ARABIA)

Onsite hands-on training

Jan '09 – April '11

has been conducted by E-Council for ten days that covered the following certificates:

- Certified Ethical Hacker
- Computer Hacking Forensics Investigator

IDS & IPS training

ISU, KACST, RIYADH (SAUDI ARABIA)

Onsite training

13 & 15 May 2007

has been conducted by Internet Security Systems that included the following:

- Introduction to Site Protector
- Network Intrusion Prevention

ISACA Associate

ISACA member

Until Dec. 2023

has been an ISACA associate member as one of the pioneer firms in security and information assurance

- **CISM** (Certified Information Security Manager) and **CISA** (Certified Information Systems Auditor)
- ISACA certificates are scheduled for certification.

The End