



# Ahmed Al Maashri

Associate Professor

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## Education

Master of Leadership and Management, Arizona State University, USA, 2023

Ph.D., Computer Science and Engineering, The Pennsylvania State University, USA, 2012

M.Infs., Information Systems, University of New South Wales, Australia, 2005

B.Eng., Electrical and Electronics Engineering, Sultan Qaboos University, Oman, 2002

## Academic Experience

Sultan Qaboos University, Associate Professor, (2020 - Present), full time

Sultan Qaboos University, Assistant Professor, (2012 - 2020), full time

Sultan Qaboos University, Lecturer, (2005 - 2012), full time

Sultan Qaboos University, Demonstrator, (2002- 2005), full time

## Current Membership in Professional Organizations

The Institute of Electrical and Electronics Engineers (IEEE)

The IEEE Computer Society

Member of the following IEEE Technical Communities: Cloud Computing, Internet of Things

## Honors and Awards

- Won the 2022 National Award for Research in the ICT sector. Awarded by Ministry of Higher Education, Research, and Innovation.
- Best Researcher Award (May 2021, SQU's University Day)
- Won the 2020 National Award for Research in the ICT sector. Awarded by Ministry of Higher Education, Research, and Innovation.
- Best Teaching Award (May 2018, SQU's University Day)

## Service Activities

- Webinar: Introduction to IR4. Delivered to faculty, staff, and students of SQU.
- Webinar: Assessment in Remote Teaching. Delivered to faculty and staff of the College of Engineering.
- Technical Talk: Evaluating the Quality of Mobile Data Networks Through Crowdsourcing. Delivered during the celebration of the IEEE Day.
- Webinar: Using FOSS for Distant Learning. Delivered to faculty of Ibri College of Technology.
- Webinar: Delivered a webinar organized by Ministry of Technology and Communications ( البرمجيات ) (الحررة مفتوحة المصدر والتعليم عن بعد)
- Keynote Address: Evaluating QoE of Data Services on Mobile Data Networks through Crowdsourcing, The 4th MEC Student Research Conference on Smart Technologies, Communication, Engineering,

Archives and Management, Muscat, Oman

- Soft Skills: Delivering an Effective Presentation, Military Technological College (MCT), Muscat, Oman
- Adopting FOSS in College of Engineering – SQU, during the celebration of the Free Software Day, organized by ITA, Hormuz Grand Muscat, Muscat, Oman (<https://foss.om/sfd/>)
- IEEE Drive Talk, Modern College for Business and Science (MCBS), Muscat, Oman  
IEEE Drive Talk, Ibri College of Technology, Muscat, Oman
- Open Source Software, WIPO-Oman Summer School on Intellectual Property and Knowledge Transfer, Organized by the World Intellectual Property Organization (WIPO) in cooperation with Sultan Qaboos University (SQU), Muscat, Sultanate of Oman. Also, I have participated in the Panel Discussion
- QoS Monitoring System for Mobile Networks in Oman, (Invited Talk by TRC in the 4th Annual Research Forum)
- Augmented Reality, given as an activity within the 7th Technical Forum How to Deliver an Effective Presentation, given to Final Year Students
- The Long and Inevitable Road to FOSS Deployment in Oman: Opportunities, Challenges, and Caveats, Invited talk at the 3rd Free and Open Source Conference
- Embedded Vision Systems: from FOSS to FPGA, delivered to a number of colleges and venues.

### Selected Publications

- [J1] Ayman Termanini, Dawood Al-Abri, Hadj Bourdoucen, and **Ahmed Al Maashri**. Using machine learning to detect network intrusions in industrial control systems: a survey. *International Journal of Information Security*. Volume 24, Article 20. 2025. <https://doi-org.squ.idm.oclc.org/10.1007/s10207-024-00916-x>
- [J2] Waleed Al Maawali, Mostefa Mesbah, **Ahmed Al Maashri**, and Ashraf Saleem. Design of intelligent thruster decision-making system for USVs. *Ocean Engineering*. Volume 285, Part 2, 2023. <https://doi.org/10.1016/j.oceaneng.2023.115431>.
- [J3] Nesrine Abid, Ahmed. C. Ammari, **Ahmed Al Maashri**, Mohamed Abid, and Medhat Awadalla. Accelerated and optimized covariance descriptor for pedestrian detection in self-driving cars. *Design Automation for Embedded Systems*. 2023. (<https://doi.org/10.1007/s10617-023-09273-9>)
- [J4] **Ahmed Al Maashri**, Ashraf Saleem, Hadj Bourdoucen, Omer Eldirdiry, and Ahmed Al Ghadani. A novel drone-based system for accurate human temperature measurement and disease symptoms detection using thermography and AI. *Remote Sensing Applications: Society and Environment*, Volume 27, August 2022, 100787 (<https://doi.org/10.1016/j.rsase.2022.100787>)
- [J5] Afaq Ahmad, Sayyid Samir Al-Busaidi, **Ahmed Al Maashri**, Medhat Awadalla, and Sabir Hussain. FPGAs – Chronological Developments and Challenges. *International Journal of Electrical Engineering and Technology*, 12(11), November 2021, pp. 60-72, (<https://doi.org/10.34218/IJEET.12.11.2021.006>)
- [J6] Saira Al-Zadjali, **Ahmed Al Maashri**, Amer Al-Hinai, Rashid Al Abri, Swaroop Gajare, Sultan Al-Yahyai, and Mostafa Bakhtvar. A Fast and Accurate Wind Speed and Direction Nowcasting Model for Renewable Energy Management Systems. *Energies*, 14(23), 2021 (<https://doi.org/10.3390/en14237878>)
- [J7] Nasser Hosseinzadeh, **Ahmed Al Maashri**, Naser Tarhuni, Abdelsalam Elhaffar, and Amer Al-Hinai. A Real-Time Monitoring Platform for Distributed Energy Resources in a Microgrid—Pilot Study in Oman. *Electronics*, vol. 10, no. 15, p. 1803, Jul. 2021. (<https://doi.org/10.3390/electronics10151803>)

- [J8] Manar Aldaoud, Dawood Al-Abri, **Ahmed Al Maashri**, and Firdous Kausar. DHCP attacking tools: an analysis. *Journal of Computer Virology and Hacking Techniques*, pp. 1–11, 2021, doi: 10.1007/s11416-020-00374-8.
- [J9] Abdul Aziz Al Abri, **Ahmed Al Maashri**, Mohamed Ould-Khaoua, and Hadj Bourdoucen. Game-Theoretic Modeling of the Behavior of Domain Name System Attacker. *Computers and Electrical Engineering*, Volume 87, 2020 (<https://doi.org/10.1016/j.compeleceng.2020.106801>)