



## Ahmed Al Maashri

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### Education

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  
The Association for Computing Machinery (ACM)  
Member of the following IEEE Technical Communities: Cloud Computing, Green ICT, Internet of Things, Smart Grid Technical Community, Software Defined Networks

### Honors and Awards

- 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] 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>)
- [J2] Saira Al-Zadjali, **Ahmed Al Maashri**, Amer Al-Hinai, Rashid Al Abri, Swaroop Gajare, Sultan Al-Yahyai, and Mostafa Bakhtar. 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>)
- [J3] 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>)
- [J4] 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.
- [J5] 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>)
- [J6] Saira Al-Zadjali, **Ahmed Al Maashri**, Amer Al-Hinai, Sultan Al-Yahyai, and Mostafa Bakhtar. An Accurate, Light-Weight Wind Speed Predictor for Renewable Energy Management Systems. *Energies*, 12(22), 2019 (<https://doi.org/10.3390/en12224355>)
- [J7] Asma Al Kindi, Dawood Al Abri, **Ahmed Al Maashri**, and Fahad Bait-Shiginah. Analysis of malware propagation behavior in Social Internet of Things. *International Journal of Communication Systems (IJCS)*, 2019 (<https://doi.org/10.1002/dac.4102>)
- [J8] Ashraf Saleem, **Ahmed Al Maashri**, Muna A. Al-Rahbi, Medhat Awadallah, and Hadj Bourdoucen. Cooperative Cruise Controller for Homogeneous and Heterogeneous Vehicle Platoon System. *International Journal of Automotive Technology (IJAT)*, 20(6):1131-1143, (2019) (<https://doi.org/10.1007/s12239-019-0106-8>)