

Academic Resume



Hanan Alahmadi

Lecturer, Computer Science Department

Contact Information.

Building 61, Room 122, hjahmadi1@kau.edu.sa.

Highest Degree.

2019, Master of Science, Information Technology, King AbdulAziz University, Saudi Arabia.

Academic and Professional Experiences.

1. **2020 - Present**
Lecturer, Computer Science Department, Faculty of Computing and Information Technology, King Abdulaziz University.
2. **2016 - 2020**
Teacher Assistant, Computer Science Department, Faculty of Computing and Information Technology, King Abdulaziz University.
3. **2014 - 2016**
Teacher Assistant, Deanship of E-Learning and Distance Education, King Abdulaziz University.
4. **2011 - 2014**
Programmer, Deanship of Information Technology, King Abdulaziz University.

Research Interests.

Low Power Wide Area (LPWA) Networks, Wireless Sensor Networks (WSNs), Internet of Things (IoT), Energy efficient MAC protocols.

Teaching Interests.

Network Computing, Computer Programming.

Certifications and Trainings.

1. Cisco CCNA1: Routing and switching.
2. HPC Applications.
3. Oracle DB SQL and PL/SQL Fundamentals.
4. Oracle Forms Developer 10g: Build Internet Application.
5. Oracle Reports Developer: Build Reports.

Social, Scientific and Professional Affiliation.

Funded Projects.

1. 2017, A Multi-Channel Preamble Sampling MAC Protocol for Wireless Sensor Networks, King Abdulaziz City for Science and Technology, Postgraduate Student Research Program.
2. 2021, Utilizing Low Power WAN Technology for Mission Critical IoT Sensors, King Abdulaziz University, Institutional Funding Program for Research and Development.

Publications.

1. Hanan Alahmadi, Fatma Boabdullah, "A Review Of Multi-Channel Medium Access Control Protocols For Wireless Sensor Networks", European Journal Of Engineering And Technology Research, vol: 6, pp. 39-53, 2021.
DOI: [10.24018/ejers.2021.6.6.2222](https://doi.org/10.24018/ejers.2021.6.6.2222)
2. Hanan Alahmadi, Fatma Bouabdallah, Ahmed Al-Dubai, "A New Annulus-Based Distribution Algorithm For Scalable Iot-Driven Lora Networks", Icc 2021 - Ieee International Conference On Communications, pp. 1-6, 2021.
DOI: [10.1109/ICC42927.2021.9500407](https://doi.org/10.1109/ICC42927.2021.9500407)
3. Hanan Alahmadi, Fatma Bouabdallah, "Multichannel Preamble Sampling Mac Protocol For Wireless Sensor Networks", International Journal Of Distributed Sensor Networks, vol: 15, pp. 155014771985095, 2019.
DOI: [10.1177/1550147719850951](https://doi.org/10.1177/1550147719850951)
4. Hanan Alahmadi, Fatma Bouabdallah, "Mcps: A Multi-Channel Preamble Sampling Mac Protocol For Wireless Sensor Networks", 2018 Ieee Conference On Wireless Sensors (Icwise), pp. 34-39, 2018.
DOI: [10.1109/ICWISE.2018.8633281](https://doi.org/10.1109/ICWISE.2018.8633281)