

Faculty C.V.

1. **Name:** Khalid Sultan
2. **Academic Rank:** Full time assistant professor.
3. **Degrees:**
 - Ph. D. in Electrical and Computer Engineering (2015), Concordia University, Montreal, Canada
 - M.Sc. in Electrical and Computer Engineering (2007), Concordia University, Montreal, Canada
4. **Service at this Institution:** affiliated with AUK since 19 August 2019.
5. **Professional Experience:**
 - Assistant Professor at the College of Computer Science and Engineering, University of Hail (UoH), Hail, KSA (09/2016 to 08/2019)
 - Postdoctoral Research Fellow, Concordia Institute for Information Systems Engineering (CIISE), Concordia University, Montreal, Canada (09/2014 to 08/2016)
6. **Consulting Experience:**
 - Role: Consultant. Organization: Institute of Consulting Research and Studies, Umm Al-Qura University, Makkah, KSA. Project: Initiative of the Centre of Software Development and Electronic Applications. (01/01/2018 to 31/08/2018)
 - Role: Consultant. Organization: Institute of Consulting Research and Studies, Umm Al-Qura University, Makkah, KSA. Project: Initiative of the Centre of Software Development and Electronic Applications. (06/08/2017 to 05/12/2017)
7. **Professional Registration:** N/A
8. **Publications:**
 - a. **Refereed Journals:**
 - Mansouri, N., Sultan, K., Ahmad A., Alseadoon, I. & Alkhalil, A. (2022). A deep learning framework for covid-19 diagnosis from computed tomography. Intelligent Automation & Soft Computing. 34(2), 1247–1264. <https://www.techscience.com/iasc/v34n2/47634>
 - Sultan K., Bentahar J., Yahyaoui H., Mizouni R., (2021) Model checking agent-based communities against uncertain group commitments and knowledge. Expert Systems with Applications, Volume 177, 114792. <https://doi.org/10.1016/j.eswa.2021.114792>

- Ahmad A., Alkhalil A., Altamimi A. B., Sultan K., Khan W., (2021), Modernising Legacy Software as Context-sensitive and Portable Mobile-enabled Application, IT Professional., IEEE, 25(1), 42-50
- Alseadoon, I., Ahmad, A., Alkalel, A., Sultan, K. (2021). Migration of Existing Software Systems to Mobile Computing Platforms: A Systematic Mapping Study, Frontiers of Computer Science, 15, 152204. <https://doi.org/10.1007/s11704-019-8166-5>
- Alreshidi A., Ahmad A., Altamimi A. B., Sultan K., Mehmood R. (2019). Software Architecture for Mobile Cloud Computing Systems, Future Internet, 11(11), 238. <https://doi.org/10.3390/fi11110238>
- Khan, W., Ullah, H., Ahmad, A., Sultan, K., Alzahrani, A., ... Abdulaziz, S. (2018). CrashSafe: A Formal Model for Proving Crash-Safety of Android Applications", Human-centric Computing and Information Sciences, 8:21. <https://doi.org/10.1186/s13673-018-0144-7>

b. Conferences:

- Abu Doush, I., Sultan, K. (2022). Can I Learn During COVID-19: Web Accessibility of Children Learning Resources? The Computer Applications & Technological Solutions (CATS 2022). 1-5
- Ahmad, A., Alseadoon, I., Alkalel, A., Sultan, K. (2019). A Framework for the Evolution of Legacy Software Towards Context-aware and Portable Mobile Computing Applications, In the Proc. of SERP'19 Conference of Software Engineering Research and Practice, Las Vegas, Nevada, USA (July 29-August 01, 2019), pp 3-9.

9. Membership in Professional Societies: N/A

10. Patents, Honors and awards:

- Nominated for the CAGS/UMI Distinguished Dissertation Award, Canada, 2016. (Federal Level)
- Nominated for the Prix d'excellence de l'Association des doyens des études supérieures au Québec (ADESAQ) "Award of Excellence from the Association of Deans of Graduate Studies in Quebec", Canada, 2016. (Provincial Level)
- Nominated for the Concordia University Doctoral Dissertation, Canada, 2016. (University Level)
- Graduate Student Support Program (GSSP), Faculty of Engineering and Computer Science, Concordia University, Canada, 2005,2006,2008,2009,2010.
- PhD Scholarship, Ministry of Higher Education, Libya, 2011-2014.
- Master Scholarship, Ministry of Higher Education, Libya, 2005-2007.
- Dean's Honors List, Faculty of Engineering, Al-Mergib University, Libya, 1998.

11. **Courses taught:**

a) Academic Courses

- **Fall 2022**

CPEG 350: Data and Computer Communications (03 Hrs/week), CPEG 389: Intelligent Agents (03 Hrs/week), CPEG 455: Wireless Networks and Mobile Systems (03 Hrs/week).

- **Summer 2022**

CPEG 220: Computer Organization and Architecture (03 Hrs/week), CPEG 450: Network Security (03 Hrs/week).

- **Spring 2022**

CPEG 210: Digital Logic Design (03 Hrs/week, 2 sections), CPEG 350: Data and Computer Communications (03 Hrs/week, 2 sections), CPEG 455: Wireless Networks and Mobile Systems (03 Hrs/week).

- **Fall 2021**

CPEG 210: Digital Logic Design (03 Hrs/week), CPEG 350: Data and Computer Communications (03 Hrs/week), CPEG 455: Wireless Networks and Mobile Systems (03 Hrs/week).

- **Summer 2021**

CPEG 220: Computer Organization and Architecture (03 Hrs/week), CPEG 450: Network Security (03 Hrs/week), CPEG201L: MATLAB Programming Laboratory (01 Hr/week).

- **Spring 2021**

CPEG 210: Digital Logic Design (03 Hrs/week), CPEG 350: Data and Computer Communications (03 Hrs/week, 2 sections), CPEG 455: Wireless Networks and Mobile Systems (03 Hrs/week).

- **Fall 2020**

CPEG 220: Computer Organization and Architecture (03 Hrs/week), CPEG 350: Data and Computer Communications (03 Hrs/week), CPEG 455: Wireless Networks and Mobile Systems (03 Hrs/week).

- **Spring 2020**

CPEG 210: Digital Logic Design (03 Hrs/week), CPEG 220: Computer Organization and Architecture (03 Hrs/week, 2 sections), CPEG 350: Data and Computer Communications (03 Hrs/week, 2 sections), CPEG 455: Wireless Networks and Mobile Systems (03 Hrs/week).

- **Fall 2019**

CPEG 210: Digital Logic Design (03 Hrs/week), CPEG 220: Computer Organization and Architecture (03 Hrs/week), CPEG 350: Data and Computer Communications (03 Hrs/week).

12. Other Duties:

a) College level

- Member, Resource Management and Planning Committee: 09/2020 to present.
- Member, Research Forum Committee: 09/2020 to present.

b) Institution level

- Member, Grade Appeal Committee: 08/2022 to present.
- Member, Professional Development Committee: 09/2020 to present.
- Member, Library Committee: 09/2019 to 08/2020.

c) Outside the institution: N/A

13. Research:

- Initiation Grant: “Air Quality Prediction using Neural Networks enhanced with Gray Wolf Optimizer During COVI-19”. AUK, 2022. CO-I.
- Research grant: “A Framework and Tool Support for Automated Modernization of Legacy Enterprise Software as Context-Sensitive Mobile Computing Application”. Deanship of Research, University of Hail (KSA), 01/09/2020-31/08/2021, CO-I.

14. Participation in Specific Programs: N/A