

Dari Alhuwail, PhD, FAMIA, FIAHSI

Curriculum Vitae

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Education

- Ph.D. Information Systems – *Health Informatics*, University of Maryland, Baltimore County, 2016.
- M.S. Management Information Systems, University of Arizona, 2007.
- B.S.B.A. Management Information Systems (*Honors*), University of Arizona, 2006.
- B.S.B.A. Entrepreneurship (*Honors*), University of Arizona, 2006.
- B.S.B.A. Operations Management, University of Arizona, 2006.

Fellowships

- Fellow, International Academy of Health Sciences Informatics, International Medical Informatics Association, Switzerland, 2021.
- Fellow, American Medical Informatics Association, United States of America, 2020.
- Member, Middle East Elsevier Advisory Board, United Arab Emirates, 2019.
- Fellow, Arab-American Frontiers of Science, Engineering, and Medicine – The National Academies of Sciences, Engineering, Medicine, Kuwait, 2018.
- Research Fellow, Kuwait Programme, Middle East Centre, London School of Economics and Political Science, London, 2018.

Professional Development and Training

- Harvard Medical School Postgraduate Medical Education, Safety, Quality, Informatics and Leadership Program, 1-year Certificate Program, Harvard University, 2020.
- Research Publication Workshop, University of California Berkeley, Kuwait, 2017.
- VIVA Telecom Small to Big Entrepreneurship Training Program, London, 2012.
- Thukhur National Leadership Development Program, Cornell University, New York, 2012.
- Division of Clinical Informatics (BIDMC), Harvard Medical Faculty Physicians, Boston, 2010.

Professional Experience

- **Acting Assistant Vice President for Institutional Development**, Kuwait University, 2021 – Present.
- **Associate Professor**, Department of Information Science, College of Life Sciences, Kuwait University, 2020 – Present.
- **Acting Department Chair**, Department of Information Science, College of Life Sciences, Kuwait University, 2020 – 2021.
- **Assistant Professor**, Department of Information Science, College of Life Sciences, Kuwait University, 2019 – 2020.

- **Member**, Smart Vaccination Card Working Group, World Health Organization, 2021 – Present.
- **Member**, Digital Health Technical Advisory Group, World Health Organization, 2019 – Present.
- **Regional Vice President – Middle East and North Africa**, International Medical Informatics Association, 2020 – Present.
- **Vice President**, Middle East and North African Health Informatics Association, 2019 – Present.
- **Vice-Chair**, Student and Emerging Professionals Special Interest Group, International Medical Informatics Association, 2019 – Present.
- **Team Leader & Consultant**, Technology Team, Northern Economic Zone – "Hareer", 2019 – 2020.
- **Member**, Digital Health Committee, Ministry of Health, Kuwait, 2021 – Present.
- **Collaborator**, GeoHealth Lab, Dasman Diabetes Institute, 2018 – Present.
- **Health Informatics Consultant and Co-Founder**, Health Informatics Unit, Dasman Diabetes Institute, 2017 – Present.
- **Data Security Officer**, Data Governance Council, Dasman Diabetes Institute, 2018 – Present.
- **Advisor**, Health Reform Strategy Initiative, Kuwait Foundation for the Advancement of Sciences, Kuwait, 2019 – 2020.
- **Evaluator**, KAFO – An Amiri Diwayan Initiative, 2019 – Present.
- **Member**, National Health Informatics Strategy Committee, Ministry of Health, Kuwait, 2019 – 2020.
- **Member**, Health Information Improvement Task-force, Ministry of Health, Kuwait, 2018 – 2019.
- **Consultant**, New Kuwait Strategic Plan Promotion Advisory Board, Supreme Council for Planning and Development – Kuwait, 2018 – 2019.
- **Assistant Professor**, Department of Information Science, College of Computing Sciences and Engineering, Kuwait University, 2016 – 2019.
- **Honorary Lecturer – Postgraduate Medical Education**, College of Medicine, University of Dundee, 2016 – Present.
- **Lab Manager**, Health IT Lab, University of Maryland, Baltimore County, 2013 – 2016.
- **Teaching Assistant**, Department of Information Science, College of Computing Sciences and Engineering, Kuwait University, 2012.
- **Partner**, Burger Flipper and Operations Manager, Hashtag Burgers – Kuwait, 2011 – 2013.
- **Systems Engineer**, Information Technology, Dasman Diabetes Institute, 2010 – 2012.
- **Software Developer**, Ministry of Health – Kuwait, 2009 – 2010.

Awards

- *Research Reward for Unfunded Project* – Office of the Vice President for Research – Kuwait University, 2020.
- *Teaching Excellence Award* – Office of the Vice President for Academic Affairs – Kuwait University, 2019.
- *Outstanding Research Poster Award* – College of Computing Sciences and Engineering – Kuwait University, Annual Poster Day for Sciences Faculties, 2019.
- *Outstanding Achievement Award – "Monjiz"* – Ministry of State for Youth Affairs, 2017.
- *Outstanding Research Poster Award - College of Computing Sciences and Engineering* – Kuwait University, Annual Poster Day for Sciences Faculties, 2017.
- *Outstanding Research Podium Award - Nursing Informatics Research Award* – University of Maryland - School of Nursing, Summer Institute in Nursing Informatics (SINI), 2016.

- *Outstanding Research Poster Award - Nursing Informatics Research Award* – University of Maryland - School of Nursing, Summer Institute in Nursing Informatics (SINI), 2016.
- *Outstanding Research Poster Award - Nursing Informatics Research Award* – University of Maryland - School of Nursing, Summer Institute in Nursing Informatics (SINI), 2015.
- *Rescuer of the Year* – Middle River Volunteer Ambulance and Rescue, U.S. Congress, and U.S. Senate, 2015.
- *Rookie of the Year* – Riviera Beach Volunteer Fire Company, 2015.
- *Top Training Hours* – Riviera Beach Volunteer Fire Company, 2015.
- *Building Relationships Award* – Thukhur National Leadership Development Program, 2012.
- *Volunteer Appreciation Award* – Spread the Passion Volunteers, 2010.
- *Top U.S.A. Graduate Scholars Award* – Kuwait's Ministry of Higher Education, 2008.
- *Merit Graduate Scholarship Award* – Kuwait's Ministry of Higher Education, 2007.
- *Dean of Students Award Finalist* – University of Arizona, 2006.
- *Merit Undergraduate Scholarship Award* – Kuwait's Ministry of Higher Education, 2002.

Teaching Excellence

Self-Development

- The Art of Improvising Speech, Dr. Ahmad Bozubar, Online, 2021.
- Serving Leader Workshop, Dr. Ahmad Bozubar, Online, 2021.
- Design and Education: Designing for Sustainable Solutions, Nuqat on Tour, Nuqat, Kuwait, 2018.
- Good Practices in Utilizing Electronic/Digital Knowledge Resources in Teaching and Learning Processes, National Bureau for Academic Accreditation and Education Quality Assurance (NBAQ), 2018.
- Design Thinking for Educators, The SEEN Engaging, Embracing, Emerging - Visual Communication Conference, Gulf University for Science and Technology, Kuwait, 2018.
- Train-the-Trainer; Teaching Excellence Workshop, University of California Berkeley, San Francisco, 2018.
- Teaching Excellence Workshop, University of California Berkeley, Kuwait, 2017.

Service and Community Building

- **Member**, Teaching Excellence Committee, College of Life Sciences, Kuwait University – 2020/2021 – Present.
- **Chair**, Teaching Excellence Program, Office of the Vice President for Academic Affairs, Kuwait University – 2018/2019 – Present.
- **Co-Facilitator**, Teaching Excellence in Online Teaching Workshop, VPAA, Kuwait University – 2021.
- **Co-Facilitator**, Teaching Excellence Workshop for faculty in Arabic, VPAA, Kuwait University – 2018.
- **Co-Host**, First forum of the "Teaching Excellence Community of Practice" at Kuwait University, Kuwait University – 2018.
- **Co-Facilitator**, Teaching Excellence Workshop: Learning by Design, VPAA, Kuwait University – 2018.
- **Planner**, Active Learning and Teaching with Technology, VPAA, Kuwait University – 2018.
- **Host and Planner**, Lecture titled "Re-imagining the Teaching Space" By Prof. Paul Corcoran from University of South Australia, College of Computing Sciences and Engineering in collaboration with the VPAA, Kuwait University, 2018.

Academic Service

Kuwait University Service

DEPARTMENT-LEVEL

ACADEMIC YEAR 2021/2022

- **Co-Host**, InfoSec Summit'22, Information Science Department, College of Life Sciences, Kuwait University – 2021/2022.
- **Member**, Social and Public Seminar Committee, Information Science Department, College of Life Sciences, Kuwait University – 2021/2022.
- **Member**, Scholarship Committee, Information Science Department, College of Life Sciences, Kuwait University – 2021/2022.
- **Member**, Strategic Development Committee, Information Science Department, College of Life Sciences, Kuwait University – 2021/2022.

ACADEMIC YEAR 2020/2021

- **Acting Chair**, Information Science Department, College of Life Sciences – 2020/2021.
- **Co-Host**, InfoSec Summit'21, Information Science Department, College of Life Sciences, Kuwait University – 2020/2021.
- **Chair**, Department Advisory Board, Information Science Department, College of Life Sciences, Kuwait University – 2020/2021.
- **Convener**, Appointment and Contract Renewal Committee, Information Science Department, College of Life Sciences, Kuwait University – 2020/2021.
- **Convener**, Scholarship Committee, Information Science Department, College of Life Sciences, Kuwait University – 2020/2021.
- **Convener**, Strategic Development Committee, Information Science Department, College of Life Sciences, Kuwait University – 2020/2021.

ACADEMIC YEAR 2018/2019

- **Acting Chair**, Information Science Department, College of Computing Sciences and Engineering, Kuwait University – 2018/2019 | 9th to 15th January 2019.
- **Member**, Graduate Program Committee – M.S. Computer Information Systems, Information Science Department, College of Computing Sciences and Engineering & College of Graduate Studies, Kuwait University – 2018/2019.
- **Founder and Chair**, Ethics Review Committee, Information Science Department, College of Computing Sciences and Engineering, Kuwait University – 2018/2019.
- **Member**, Social and Public Seminar Committee, Information Science Department, College of Computing Sciences and Engineering, Kuwait University – 2018/2019.
- **Member**, Curriculum Affairs Committee, Information Science Department, College of Computing Sciences and Engineering, Kuwait University – 2018/2019.

ACADEMIC YEAR 2017/2018

- **Acting Chair**, Information Science Department, College of Computing Sciences and Engineering, Kuwait University – 2017/2018 | 14th to 29th Aug 2019.
- **Founder and Chair**, Ethics Review Committee, Information Science Department, College of Computing Sciences and Engineering, Kuwait University – 2017/2018.

- **Chair**, Social and Public Seminar Committee, Information Science Department, College of Computing Sciences and Engineering, Kuwait University – 2017/2018.
- **Member**, Curriculum Affairs Committee, Information Science Department, College of Computing Sciences and Engineering, Kuwait University – 2017/2018.

ACADEMIC YEAR 2016/2017

- **Secretary**, Department Council, Information Science Department, College of Computing Sciences and Engineering, Kuwait University – 2016/2017.
- **Secretary**, Curriculum Affairs Committee, Information Science Department, College of Computing Sciences and Engineering, Kuwait University – 2016/2017.
- **Member**, Social Committee, Information Science Department, College of Computing Sciences and Engineering, Kuwait University – 2016/2017.

COLLEGE-LEVEL

ACADEMIC YEAR 2021/2022

- **Member**, Teaching Excellence Committee, College of Life Sciences, Kuwait University – 2021/2022.

ACADEMIC YEAR 2020/2021

- **Committee Chair**, College Website Improvement Committee, College of Life Sciences, Kuwait University – 2020/2021.
- **Member**, College Council, College of Life Sciences, Kuwait University – 2020/2021.
- **Member**, Scholarship Committee, College of Life Sciences, Kuwait University – 2020/2021.
- **Member**, Teaching Excellence Committee, College of Life Sciences, Kuwait University – 2020/2021.

ACADEMIC YEAR 2016/2017

- **Secretary**, Undergraduate Programs Committee, College of Computing Sciences and Engineering, Kuwait University – 2016/2017.

UNIVERSITY-LEVEL

ACADEMIC YEAR 2021/2022

- **Acting Assistant Vice President for Institutional Development**, Kuwait University – Fall 2021/2022.
- **Member**, Academic Ranking Improvement Initiative Committee, Office of the Vice President for Planning, Kuwait University – 2021/2022.
- **Member**, Arab Government Excellence Award Committee, Kuwait University – Fall 2021/2022.
- **Member**, Digitization of Services and Digital Transformation Committee, Kuwait University – Fall 2021/2022.

ACADEMIC YEAR 2020/2021

- **Acting Assistant Vice President for Institutional Development**, Kuwait University, Summer 2020/2021.
- **Committee Chair**, Teaching Excellence Program, Office of the Vice President for Academic Affairs, Kuwait University – 2020/2021.
- **Member**, Academic Ranking Improvement Initiative Committee, Office of the Vice President for Planning, Kuwait University – 2020/2021.

ACADEMIC YEAR 2019/2020

- **Member**, eLearning Bylaws Committee, Vice President for Academic Support Services, Kuwait University, Kuwait – 2019/2020.
- **Committee Chair**, Teaching Excellence Program, Office of the Vice President for Academic Affairs, Kuwait University – 2019/2020.
- **Volunteer Trainer**, eLearning Trainers Group, Special Committee for eLearning during COVID-19, Kuwait University, Kuwait – 2019/2020.

ACADEMIC YEAR 2018/2019

- **Committee Chair**, Teaching Excellence Program, Office of the Vice President for Academic Affairs, Kuwait University – 2018/2019.
- **Co-Facilitator**, Teaching Excellence Workshop for faculty in Arabic, VPAA, Kuwait University – 2018.
- **Co-Host**, First forum of the "Teaching Excellence Community of Practice" at Kuwait University, Kuwait University – 2018.
- **Co-Facilitator**, Teaching Excellence Workshop: Learning by Design, VPAA, Kuwait University – 2018.
- **Planner**, Active Learning and Teaching with Technology, VPAA, Kuwait University – 2018.
- **Host and Planner**, Lecture titled "Re-imagining the Teaching Space" By Prof. Paul Corcoran from University of South Australia, College of Computing Sciences and Engineering in collaboration with the VPAA, Kuwait University – 2018.

Community Service

- **Founder**, Missing Maps Kuwait, 2018 – Present.
- **Member**, Kuwait GIS User Group (KGUG), 2017 – Present.
- **Chair**, Rescue Committee, Kuwait Fire Protection Association, 2016 – Present.
- **Founder**, Kuwait Health Informatics Network, 2014 – Present.
- **Volunteer**, Kuwait Red Crescent Society, 2012 – Present.
- **Information Technology and Informatics Consultant**, Direct Aid, 2013 – Present.
- **International Relations Officer**, Kuwait Dive Team, 2008 – Present.
- **Accessibility Volunteer Sailor and Mate**, Downtown Sailing Center (USA), 2012 – 2016.
- **Chair**, Graduate Students Committee, National Union of Kuwaiti Students (USA), 2013 – 2015.
- **Board Member**, National Union of Kuwaiti Students (USA), 2012 – 2013.
- **Information Technology Consultant**, Bayt Abdulla Children's Hospice, 2010 – 2014.
- **Youth Leader, Systems Advisor and Co-Founder of Kuwait 4 Kenya (K4K)**, Lothan Youth Achievement Center (LoYAC), 2008 – 2012.
- **Co-Founder**, Kuwaiti Student Association, University of Arizona, 2004.

Associations

- International Medical Informatics Association (IMIA).
- American Medical Informatics Association (AMIA).
- Healthcare Information and Management Systems Society (HIMSS).
- American Health Information Management Association (AHIMA).
- Middle East and North African Health Informatics Association (MENAHIA).

- International Society for Telemedicine and eHealth (ISfTeH).
- Institute of Electrical Engineers and Electronics (IEEE).
- Kuwait GIS User Group (KGUG), Kuwait.
- Kuwait Fire Protection Association (KFFPA), Kuwait.
- American Middle Eastern Network for Dialogue at Stanford University (AMENDS), USA.
- Arizona Blue Chip Program, USA.
- Delta Sigma Pi International Professional Business Fraternity, USA.
- Golden Key International Honor Society, USA.
- Helicopter Rescue and Response Association (HRRA).
- International Association of Fire Chiefs (IAFC).
- Kuwait Dive Team, The Environmental Voluntary Foundation, Kuwait.
- Kuwaiti Student Association - University of Arizona.
- Kuwait Information Technology Society.
- Kuwait Red Crescent Society.
- Kuwait Transparency Society.
- Kuwait Health Initiative.
- Lothan Youth Achievement Center (LoYAC).
- Maryland Flight Paramedics Association.
- Management Information Systems Graduate Association - University of Arizona.
- National Union of Kuwait Students.
- Students for International Change.
- Sigma Alpha Lambda.
- Thukhur - National Program to Develop Future Promising Leaders.
- WYSE International.

Fire, Rescue, and Emergency Medical Services

- Volunteer, Middle River Volunteer Fire and Rescue Company, 2016 – Present.
- Water Rescue Captain, Middle River Volunteer Fire and Rescue Company, 2016 – 2017.
- Rescue Lieutenant, Firefighter/NREMT, Middle River Volunteer Ambulance and Rescue, 2012 – 2016.
- Firefighter II/NREMT, Lansdowne Volunteer Fire Company, 2015 – 2017.
- Swiftwater Rescue Technician, Kingsville Volunteer Fire Company, 2015 – Present.
- Rescue Diver, Firefighter/NREMT, Prince George's County Fire and Marine Rescue Department, 2015 – 2017.
- Firefighter II/NREMT, Jessup Volunteer Fire Department, 2015 – 2017.
- Firefighter II/NREMT, Riviera Beach Volunteer Fire Company, 2012 – 2016.

Scholarly Activities

Peer-Reviewed Scientific Book Chapters

- Agarwal S, **Alhuwail D**, John O. (2020). mHealth Solutions in Global Health. In Haring R, Kickbusch I, Ganten D, Moeti M (Eds.). *Handbook of Global Health*. (Accepted). Springer. doi: [10.1007/978-3-030-05325-3](https://doi.org/10.1007/978-3-030-05325-3)
- Abd-Alrazaq A, Schneider J, **Alhuwail D**, Hamdi M, Al-Kuwari S, Al-Thani D, Househ, M. (2020). Artificial Intelligence in the Fight against the COVID-19 Pandemic: Opportunities and Challenges. In Househ M, Kushniruk A, Borycki E (Eds.). *Multiple Perspectives on Artificial Intelligence in Healthcare: From Challenges to Opportunities*. (Accepted). Springer.
- **Alhuwail D**, Abd-Alrazaq A, Al-Jafar E, Househ, M. (2020). Telehealth for the Geriatric Population: Use, Opportunities, and Challenges. In Choukou C, Syed-Abdul S (Eds.). *Smart Home Technologies and Services for Geriatric Rehabilitation*. (Accepted). Elsevier.

Journal Articles

- Alhusainan A, Jassem Z, **Alhuwail D**. Evaluating the Presence of Hospitals on Social Media: An Analytical Study of Private and Public Hospital Instagram Accounts in the State of Kuwait. *International Journal of Healthcare Information Systems and Informatics*. 2022; Accepted : In-Press.
- John O, Prabhu A, Goel A, Thomas A, Allaudin F, Weerbaaddana C, **Alhuwail D**, Koirala U, Jayalal JA, Codyre P, Singh S, Bajaj S, Sarbadhikari S, Bleaden A. Implementation Experiences of Telehealth balancing Policies with Practice in some countries of South Asia, Kuwait and EU. *Interactive Journal of Medical Research*. 2021; Accepted : In-Press.
- Abd-Alrazaq A, Alajlani M, **Alhuwail D**, Toro C, Giannicchi A, Ahmed A, Makhoul S, Househ M. The effectiveness and safety of serious games in improving cognitive abilities among elderly people with cognitive impairment: A systematic review and meta-analysis. *JMIR Serious Games*. 2021; Accepted : In-Press.
- Alibrahim A, Abdulsalam Y, Almutawaa S, Behbehani H, **Alhuwail D**, Al Jenaie S. Towards Value-Based Healthcare: Establishing Baseline Pharmacy Care Costs for Diabetes Management. *International Journal of Health Planning and Management*. 2021; Accepted : In-Press. doi: [10.1002/hpm.3370](https://doi.org/10.1002/hpm.3370)
- Abd-Alrazaq A, Al-Jafar E, Alajlani M, Toro C, **Alhuwail D**, Ahmed A, Reagu S, Al-Shorbaji N, Househ M. The effectiveness of serious games in alleviating depression: A systematic review and meta-analysis. *JMIR Serious Games*. 2021; Accepted : In-Press.
- Abd-Alrazaq A, Hassan A, Abuelezz I, Ahmed A, Alzubaidi M, Shah U, **Alhuwail D**, Giannicchi A, Househ M. Overview of Technologies Implemented During the First Wave of the COVID-19 Pandemic: Scoping Review. *Journal of Medical Internet Research*. 2021;23(9):e29136. doi: [10.2196/29136](https://doi.org/10.2196/29136)
- **Alhuwail D**, Al-Jafar E, Abdulsalam Y, Alduaij S. Information Security Awareness and Behaviors of Healthcare Professionals at Public Healthcare Facilities. *Applied Clinical Informatics*. 2021 Aug;12(4):924-932. doi: [10.1055/s-0041-1735527](https://doi.org/10.1055/s-0041-1735527)
- Tara M, Adel T, **Alhuwail D**, Al Thani DA, Al-Jafar E, Abu Hamra E, Ghazal H, Wahba H, Bahaadinbeigy K, AlKhalifa K, Joseph L, Zeroug M, Odeh MB, Alhefzi MI, Hamdi M, Househ M, Al-Shorbaji N, El Hassan O, Al-Salmi SA, Amara T, Sari Z. Middle East and North African Health Informatics Association (MENAHA): Health Informatics Response to COVID-19 Crisis. *Yearbook of Medical Informatics*. 2021; 30(01): 328-334. doi: [10.1055/s-0041-1726496](https://doi.org/10.1055/s-0041-1726496)
- Fernandez-Luque L, Kushniruk AW, Georgiou A, Basu A, Petersen C, Ronquillo C, Paton C, Năyhr C, Kuziemyk CE, **Alhuwail D**, Skiba D, Huesing E, Gabarron E, Borycki EM, Magrabi F, Denecke K, Peute LWP, Topaz M, Al-Shorbaji N, Lacroix P, Marcilly R, Cornet R, Gogia SB, Kobayashi S, Iyengar S, Deserno TM, Mettler T, Vimarlund V, Zhu X. Evidence-Based Health Informatics as the Foundation for the COVID-19 Response: A Joint Call for Action. *Methods of Information in Medicine*. 2021 May 11. doi: [10.1055/s-0041-1726414](https://doi.org/10.1055/s-0041-1726414)

- Topaz M, Peltonen LM, Mitchell J, **Alhuwail D**, Barakati SS, Lewis A, Moen H, Veeranki SPK, Block L, Risling T, Ronquillo C. How to Improve Information Technology to Support Healthcare to Address the COVID-19 Pandemic: an International Survey with Health Informatics Experts. *Studies in Health Technology and Informatics*. 2021 Apr 21. doi: [10.1055/s-0041-1726491](https://doi.org/10.1055/s-0041-1726491)
- Jeon E, Peltonen LM, Block L, Ronquillo C, Tayaben JL, Nibber R, Pruinelli L, Perezmitre EL, Sommer J, Topaz M, Eler GJ, Shishido HY, Wardaningsih S, Sutantri S, Ali S, **Alhuwail D**, Abd-Alrazaq A, Akhu-Zaheya L, Lee YL, Shu SH, Lee J. Emergency Remote Learning in Nursing Education During the COVID-19 Pandemic. *Yearbook of Medical Informatics*. 2021 May 27;281:942-946. doi: [10.3233/SHTI210317](https://doi.org/10.3233/SHTI210317)
- Khadadah F, Al-Shammari AA, Alhashemi A, **Alhuwail D**, Al-Saif B, Alzaid SN, Alahmad B, Bogoch I. The effects of non-pharmaceutical interventions on SARS-CoV-2 transmission in different socioeconomic populations in Kuwait: a modeling study. *BMC Public Health*. 2021;21:990. doi: [10.1186/s12889-021-10984-6](https://doi.org/10.1186/s12889-021-10984-6)
- Abd-alrazaq AA, Suleiman N, Baagar K, Jandali N, **Alhuwail D**, Abdalhakam I, Shahbal S, Abou-Samra A-B, Househ M. Patients and healthcare workers experience with a mobile application for self-management of diabetes in Qatar: A qualitative study. *Computer Methods and Programs in Biomedicine Update*. 2021 Jan 22;100002. doi: [10.1016/j.cmpbup.2021.100002](https://doi.org/10.1016/j.cmpbup.2021.100002)
- **Alhuwail D**. Information Management Practices in Public Tertiary Healthcare Facilities: An Empirical Investigation from the State of Kuwait. *Records Management Journal*. 2021; 31(1):60-73. doi: [10.1177/1833358319837247](https://doi.org/10.1177/1833358319837247)
- AlMeraj Z, Boujarwah F, **Alhuwail D**, Qadri R. Evaluating the Accessibility of Higher Education Institution Websites in the State of Kuwait: Empirical Evidence. *Universal Access in the Information Society*. 2021; 20(1), 121-138. doi: [10.1007/s10209-020-00717-8](https://doi.org/10.1007/s10209-020-00717-8)
- Abd-alrazaq A, Alajlani M, **Alhuwail D**, Erbad A, Giannicchi A, Shah Z, Hamdi M, Househ M. Blockchain Technologies to Mitigate COVID-19 Challenges: A Scoping Review. *Computer Methods and Programs in Biomedicine Update*. 2021; 1:100001. doi: [10.1016/j.cmpbup.2020.100001](https://doi.org/10.1016/j.cmpbup.2020.100001)
- Abd-alrazaq A, Alajlani M, **Alhuwail D**, Schneider J, Al-Kuwari S, Shah Z, Hamdi M, Househ M. Artificial Intelligence in the Fight against COVID-19: A Scoping Review. *Journal of Medical Internet Research*. 2020 Dec 15;22(12):e20756. doi: [10.2196/20756](https://doi.org/10.2196/20756)
- **Alhuwail D**, AlSharrah S, Coffee N, Al-Refaei F, Daniel M. Place and Health Infrastructure in the Gulf Cooperation Council: A Systematic Scoping Review of GIS Applications in Health. *Geospatial Health*. 2020; 15:887. doi: [10.4081/gh.2020.887](https://doi.org/10.4081/gh.2020.887)
- Abd-alrazaq A, **Alhuwail D**, Househ M, Hamdi M, Shah Z. Top Concerns of Tweeters During the COVID-19 Pandemic: A Surveillance Study. *Journal of Medical Internet Research*. 2020; 22(4). doi: [10.2196/19016](https://doi.org/10.2196/19016)
- **Alhuwail D**, Al-Jafar E, Alshammari R, Al-Shorbaji N, El Hassan O, Al-Hamdan Z, Alshammari A, Fernandez Luque L, AL Salmi S, Taweel A, AlKhalifa K, Househ M, Al Thani D. Middle East and North African Health Informatics Association (MENAHA): Strengthening Health Informatics Ecosystems in the Region and Beyond. *Yearbook of Medical Informatics*. 2020; Accepted: In-Press. doi: [10.1055/s-0040-1701968](https://doi.org/10.1055/s-0040-1701968)
- Abdulsalam Y, **Alhuwail D**, Schneller E. Adopting Identification Standards in the Medical Device Supply Chain. *International Journal of Information Systems and Supply Chain Management*. 2020; 13(1): 1-14. doi: [10.4018/IJISSCM.2020010101](https://doi.org/10.4018/IJISSCM.2020010101)
- **Alhuwail D**. Understanding Health Information Management Practices in Public Hospitals in Kuwait. *Health Information Management Journal*. 2020; 49(2-3): 127-136. doi: [10.1177/1833358319837247](https://doi.org/10.1177/1833358319837247)
- **Alhuwail D**, Albaj R, Ahmad F, Aldakheel K. The State of Mental Digi-Therapeutics: A Systematic Assessment of Depression and Anxiety Apps Available for Arabic Speakers. *International Journal of Medical Informatics*. 2019; 35:104056. doi: [10.1016/j.ijmedinf.2019.104056](https://doi.org/10.1016/j.ijmedinf.2019.104056)
- Alaslawi H, Berrou I, **Alhuwail D**, Aslanpour Z. Status and trends of e-Health tools in Kuwait: A narrative review. *Journal of Health Informatics in Developing Countries*. 2019; 13:2.

- Abdulsalam Y, **Alhuwail D**, Al-Jafar E. The Physician's Hand in Kuwait's Health Care Supply Management. *Arab Journal of Administrative Sciences*. 2019; 26(2):355-377.
- Alshammari R, Al-Shorbaji N, Ahmed Z, Al-Hamadan Z, Alshammari A, El Hassan O, **Alhuwail D**, Al Salmi S, Al-Jafar E, Ghazal H. Middle East and North African Health Informatics Association (MENAHA): A New Opportunity for the Region. *Yearbook of Medical Informatics*. 2019; 28(01): 292-296. doi: [10.1055/s-0039-1677896](https://doi.org/10.1055/s-0039-1677896)
- **Alhuwail D**, Abdulsalam Y. Assessing eHealth Literacy in the State of Kuwait: A Survey of Internet Users from an Arab State. *Journal of Medical Internet Research*. 2019; 21(5):e11174. doi: [10.2196/11174](https://doi.org/10.2196/11174)
- Peltonen LM, Pruinelli L, Ronquillo C, Nibber R, Lozada Peresmitre E, Block L, Deforest H, Lewis A, **Alhuwail D**, Ali S, Badger MK, Eler GJ, Georgsson M, Islam T, Jeon E, Jung H, Kuo CH, Sarmiento RFR, Sommer J, Tayaben JL, Topaz M. The current state of Nursing Informatics – An international cross-sectional survey. *Finnish Journal of eHealth and eWelfare*. 2019; 11(3): 220-231. doi: [10.23996/fjhw.77584](https://doi.org/10.23996/fjhw.77584)
- **Alhuwail D**, Abduo H, Alqabandi N, Abu-Ghefreh A, Dawwas B, Halawa N. Engagement and Usage Patterns of a Diabetes Education Website Tailored for Arabic Speakers: A Case Study of a Diabetes Website. *Journal of Consumer Health on the Internet*. 2018; 22(4): 337-351. doi: [10.1080/15398285.2018.1547088](https://doi.org/10.1080/15398285.2018.1547088)
- **Alhuwail D**, AlMeraj Z, Boujarwah F. Evaluating Hospital Websites in Kuwait to Improve Consumer Engagement and Access to Health Information: A Cross-Sectional Analytical Study. *BMC Medical Informatics and Decision Making*. 2018; 18:82. doi: [10.1186/s12911-018-0660-4](https://doi.org/10.1186/s12911-018-0660-4)
- Koru G, **Alhuwail D**, Jademi O, Uchidiuno U, Rosati R. Technology Innovations for Better Fall-Risk Management in Home Care: Directions Emerging from a Qualitative Analysis of Fall Incident Reports. *Journal of Gerontological Nursing*. 2018; 44(7):15-20. doi: [10.3928/00989134-20180412-01](https://doi.org/10.3928/00989134-20180412-01)
- Koru G, Parameshwarappa P, **Alhuwail D**, Aifan A. Facilitating Focused Process Improvement Efforts in Home Health Agencies to Improve Utilization Outcomes Effectively and Efficiently. *Home Healthcare Management and Practice*. 2018; 30:3. doi: [10.1177/1084822317754190](https://doi.org/10.1177/1084822317754190)
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- **Alhuwail D**. Harnessing the power of data: The journey of developing a Data Governance Framework. In: *Computer Methods and Programs in Biomedicine*. 2021; 205:105982.
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- **Alhuwail D**. Digital Therapeutics and their Potential Role to Empower Patients: Exploring the Frontiers of m-Health and Smartphone Apps in the GCC. In: *First Gulf Health Council Conference – Sustainable Healthcare in the GCC Countries: Challenges and Future Trends*. 2019. Kuwait City, Kuwait.
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- **Alhuwail D**. Illuminating Healthcare's 'Dark Data Islands': Challenges and Opportunities for Big Data in Kuwait. In: *Arab-American Frontiers of Science, Engineering, and Medicine – The National Academies of Sciences, Engineering, Medicine*. 2018. Kuwait City, Kuwait.
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- **Alhuwail D**, Abdulsalam Y. Seeking Health Information Online in Kuwait: An Exploratory Study. In: *Kuwait University Scientific Research Poster Day*. 2018. Kuwait City, Kuwait.

- Abdulsalam Y, **Alhuwail D**, Schneller E. Adopting Identification Standards in the Medical Devices Supply Chain. In: *Kuwait University Scientific Research Poster Day*. 2018. Kuwait City, Kuwait.
- Boujarwah F, AlMeraj Z, **Alhuwail D**. What Do Users Want? Preliminary Analysis of User Expectations of Hospital Websites in the State of Kuwait. In: *The ACM CHI Conference on Human Factors in Computing Systems – W27: Exploring Participatory Design Methods to Engage with Arab Communities*. 2018. Montréal, Canada.
- **Alhuwail D**, Norcio AF. Updates on Information Technology and Systems in the Fire Service. In: *Fifth International Fire and Safety Conference and Exhibition*. 2018. Kuwait City, Kuwait.
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- Koru G, Parameshwarappa P, **Alhuwail D**. Identifying home care clinical practices most associated with hospital readmissions and non-admitted ER visit rates: Secondary data analysis. In: *The 6th Annual Workshop on Health IT and Economics*. 2015. Washington D.C., USA.
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- **Alhuwail D**, Koru G, Alaiad A, Norcio AF, Topaz M. Health information technology adoption in home health: Progress report. In: *American Medical Informatics Association Annual Conference*. 2014. Washington D.C., USA.
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- **Alhuwail D**, Barnes R. Diabetes care in the age of informatics: Kuwait-Scotland Health Innovation Network. In: *Second Kuwait Conference on e-Services and e-Systems*. 2011. Kuwait City, Kuwait.
- **Alhuwail D**. Review of handheld applications for healthcare. In: *First Kuwait Conference on e-Services and e-Systems*. 2009. Kuwait City, Kuwait.

Graduate Supervision, Advising, and Examination

Supervision of Graduate Students

- Rabab Al-Tabtabaiee – **Primary Supervisor**: *Telemedicine for Diabetes Care and Management*. Project, Masters of Science in Computing Information Systems, College of Life Sciences – Kuwait University, Kuwait – in progress.
- Zahraa Jassem – **Primary Supervisor**: *Evaluating the Digital Maturity of Kuwait's Healthcare System*. Project, Masters of Science in Computing Information Systems, College of Life Sciences – Kuwait University, Kuwait – in progress.
- Anwar Al-Hussainan – **Primary Supervisor**: *Assessing Safety of Electronic Health Records*. Thesis, Masters of Science in Computing Information Systems, College of Life Sciences – Kuwait University, Kuwait – in progress.
- Fatemah Khan – **Primary Supervisor**: *Benefits and Challenges of Open Source Software Adoption in the Health Sectors of the Gulf Council Countries*. Thesis, Masters of Science in Computing Information Systems, College of Life Sciences – Kuwait University, Kuwait – in progress.
- Kholoud Alqattan – **Primary Supervisor**: *Using Machine Learning Technique to Predict Kidney Transplant Survival*. Thesis, Masters of Science in Computing Information Systems, College of Life Sciences – Kuwait University, Kuwait – in progress.
- Mai Almutairi – **Primary Supervisor**: *Measuring Kuwait's Digital Health Maturity*. Project, Masters of Science in Computing Information Systems, College of Life Sciences – Kuwait University, Kuwait – in progress.
- Hessa AlAslawi – **Co-Supervisor**: *Role of eHealth applications Diabetes Management*. Thesis, PhD, School of Life and Medical Sciences – University of Hertfordshire, University of Hertfordshire, UK – 2021.
- Ishrat Azeem – **Primary Supervisor**: *Role of mHealth for Diabetes Management*. Thesis, Masters of Science in Diabetes Care and Management, School of Medicine – University of Dundee, Dundee, UK – 2019.

Graduate Programs Examination Committees

- Fatimah Almusajin – **External Examiner**: *Factors Affecting Intention to Use Blockchain Technology in Health Records in Saudi Arabia: A Case Study of the Eastern Province*. Thesis, Masters of Science in Innovation and Technology Management – Arabian Gulf University, Bahrain – 2021.
- Yousef AlRasheed – **Examiner**: *Assessing Cyber Resilience Readiness of Small and Medium Enterprises in Kuwait*. Project, Masters of Science in Information Technology, College of Life Sciences – Kuwait University, Kuwait – 2021.
- Shok Shama – **Examiner**: *Evaluating User Experience, Accessibility and Usability of E-commerce Websites in the State of Kuwait*. Thesis, Masters of Science in Information Technology, College of Life Sciences – Kuwait University, Kuwait – 2020.

Invited Talks and Presentations

- **Alhuwail D.** Kuwait University Rankings ... Opportunities, Challenges, and the Road Ahead. In: *1st International Conference in Academic Development for Higher Education: New Vision for New Era*. Virtually, Kuwait; 2022.
- **Alhuwail D.** Telehealth Standards towards strengthening healthcare delivery system & Building Resilience. In: *Telemedicon 2021: 17th Annual International Conference of Telemedicine Society of India*. Virtually, India; 2021.
- **Alhuwail D.** Data Governance: Reducing Clinical Variations and Promoting Health Equity. In: *HIMSS Middle East Conference*. Virtually, Riyadh, Saudi Arabia; 2021.
- **Alhuwail D.** Governance, Reimbursement, Privacy, Collaboration Technology. *Global Conference: A destination in sight: Doing it right to bring personalised healthcare to patients*. Online, Germany; 2021.
- **Alhuwail D.** Examining Healthcare Professionals' Cybersecurity Awareness and Behaviors: Lessons and Recommendations. *Cybersecurity Education and Research Conference (CERC)*. Kuwait City, Kuwait; 2021.
- **Alhuwail D.** Keynote: Impact of COVID-19 on leveraging the technology adoption and the digital literacy within the healthcare ecosystem in Kuwait. In: *GCC eHealth Workforce Development Conference 2021*. Virtually, Dubai; UAE 2021.
- **Alhuwail D.** Panel Discussion: How can libraries improve health literacy in the Middle East region?. In: *Evolving Health Information Landscape Symposium – Weill Cornell Medicine-Qatar (WCM-Q) Distributed eLibrary*. Virtually, Doha, Qatar; 2021.
- **Alhuwail D.** Panel Discussion: Artificial Intelligence in Healthcare. In: *Invited talk at the United Arab Emirates Embassy in Kuwait*. Virtually, Kuwait City, Kuwait; 2021.
- **Alhuwail D.** Recommendations and Concluding Remarks. In: *InfoSec Summit'21*. Virtually, Kuwait City, Kuwait; 2021.
- **Alhuwail D.** Embracing Digital into Mainstream Healthcare: Thriving Post-COVID-19. In: *8th eGovernment Forum*. Virtually, Kuwait City, Kuwait; 2021.
- **Alhuwail D.** Translating Policy to Practice in Telehealth: Lessons from Global Implementation Experiences. In: *Telemedicon 2020*. Virtually, Chennai, India; 2020.
- **Alhuwail D.** Volunteering Inspiration. In: *KAFO 4th Annual Conference*. Virtually, Kuwait City, Kuwait; 2020.
- **Alhuwail D.** Telehealth Masterclass. In: *HIMSS Middle East Conference*. Virtually, Riyadh, Saudi Arabia; 2020.
- **Alhuwail D.** The Role of Data Science in the COVID-19 Pandemic. In: *KFAS Inspo Talks, Kuwait Foundation for the Advancement of Sciences*. Virtually, Kuwait City, Kuwait; 2020.
- **Alhuwail D.** Ethical and Privacy Considerations for Digital Interventions During Health Crisis: Recommendations and Lessons Learned. In: *Cybersecurity Education and Research Conference (CERC)*. Virtually, Kuwait City, Kuwait; 2020.
- **Alhuwail D.** Fighting the Pandemic: A GCC Digital Outlook – Public Health Informatics Forum. In: *GCC eHealth Workforce Development Conference 2020*. Virtually, Dubai; UAE 2020.
- **Alhuwail D.** The HIE'Leap of Faith: Lessons to learn today from the Pioneers. In: *GCC eHealth Workforce Development Conference 2020*. Virtually, Dubai; UAE 2020.
- **Alhuwail D.** Using Geospatial Data for Epidemic Insights in Kuwait. In: *Digital Health Strategies to Control COVID-19 – Johns Hopkins Bloomberg School of Public Health*. Virtually, Baltimore, MD, USA; 2020.
- **Alhuwail D.** Digital Systems and Services in the times of COVID-19. In: *Science and Technology Community Meetup – KAFO*. Virtually, Kuwait; 2020.

- **Alhuwail D.** Reaching Consumers Digitally: Opportunities for GCC Healthcare Systems. In: *International Symposium for Telemedicine and Artificial Intelligence in Medicine*. Muscat, Oman; 2020.
- **Alhuwail D.** The Role of Youth in Volunteering and Global Citizenship. In: *Ban Ki-moon Centre for Global Citizens*. Kuwait City, Kuwait; 2019.
- **Alhuwail D.** Health Informatics ... Are you ready for the Digital Health Wave? In: *Fifth Annual Conference of the Kuwait Institute for Medical Specialization Current Advances in Residency Education (KIMS-CARE)*. Kuwait City, Kuwait; 2019.
- **Alhuwail D.** Design Thinking for Healthcare Professionals. In: *Kuwait Dental Administration Conference and Exhibition (KDAC2019)*. Kuwait City, Kuwait; 2019.
- **Alhuwail D.** Trailblazing the Health Informatics Landscape: Research from Kuwait. In: *Hamad Bin Khalifa University CSE ICT seminars*. Doha, Qatar; 2018.
- **Alhuwail D.** Illuminating Healthcare's Dark Data Islands: Challenges and Opportunities for Big Data in Kuwait. In: *6th Arab-American Frontiers of Science, Engineering, and Medicine Symposium*. Kuwait City, Kuwait; 2018.
- **Alhuwail D.** FAIR Digital Practices: Guiding Principles for Data Science. In: *ISC Monthly Seminar Series*. Kuwait City, Kuwait; 2018.
- **Alhuwail D.** Design Thinking: App Development for Frail Patients. In: *The University of Dundee Medical School Graduate Program – Dasman Diabetes Institute*. Kuwait City, Kuwait; 2018.
- **Alhuwail D.** Diagnosing Kuwait's Digital Health Maturity: An Overview of Informatics Research in Context. In: *Ninewells Hospital and the University of Dundee Medical School*. Dundee, United Kingdom; 2018.
- **Alhuwail D.** Kuwait's Digital Health Maturity: Challenges, Opportunities, and Policy Recommendations. In: *Middle East Centre, London School of Economics and Political Sciences*. London, United Kingdom; 2018.
- **Alhuwail D.** Cybersecurity practices by organizations and professionals in healthcare. In: *5th GCC Healthcare Innovation Congress*. Dubai, UAE; 2018.
- **Alhuwail D.** Introduction to Academic Research Methods. In: *ClickIT Student Club Workshop Series*. Kuwait City, Kuwait; 2018.
- **Alhuwail D.** Information Management and Medical Informatics. In: *Kuwait Medica 2018 – Biomedical Engineering Workshop*. Kuwait City, Kuwait; 2018.
- **Alhuwail D.** Applying GIS for Water Well Mapping in Sub-Saharan Africa: Suqya's Story. In: *Tenth Kuwait GIS User Conference*. Kuwait City, Kuwait; 2018.
- **Alhuwail D.** Health Informatics Trends: Essential Knowledge for Clinicians in 21st Century Medicine. In: *Fourth Annual Conference of the Kuwait Institute for Medical Specialization Current Advances in Residency Education (KIMS-CARE)*. Kuwait City, Kuwait; 2018.
- **Alhuwail D.** Health Informatics: An Overview of the Challenges and Opportunities in the State of Kuwait. In: *Military Medical Complex – North, Medical Services Authority, Kuwait Army*. Jahra, Kuwait; 2017.
- **Alhuwail D.** Cybersecurity Threats in Healthcare: Recommendations for Kuwait's Leaders. In: *The 9th Kuwait Info Security Conference*. Kuwait City, Kuwait; 2017.
- **Alhuwail D.** Exploring Research Collaboration Opportunities in the College of Computing Sciences and Engineering. In: *Department of Computer Science Seminar Series*. Kuwait City, Kuwait; 2017.
- **Alhuwail D.** Health Informatics: Applications and Opportunities for Kuwait's Healthcare System. In: *ISC Monthly Seminar Series*. Kuwait City, Kuwait; 2016.
- **Alhuwail D.** Clinical and Health Informatics: A Roadmap for Kuwait. In: *Inaugural Scientific Health Informatics Symposium – Kuwait Health Informatics Network*. Kuwait City, Kuwait; 2015.

- **Alhuwail D.** Clinical and Health Informatics: Aspirations & Applications for Health care . In: *Sirdab Lab*. Kuwait City, Kuwait; 2014.

Op-Ed Articles

The following Op-Ed articles are published in local newspapers.¹

- **Alhuwail D.** The Phoenix and Education! In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Stop Destroying! In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Design Thinking and Digitization. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Youth Empowerment .. Reality and Ambition! In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Cybersecurity and Lifelines. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Education and Political Polemics. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** We need "Rahash". In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** We are staying here. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Dark Digital Interfaces. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Skills Not Certifications. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** E-Government: A Dream or a Reality? In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Reflections on "Ever Given" and International Cables. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Dangers in Zettabytes. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** First Year Corona. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Finally, a Ministry for Digital. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** A pearl in the Trenches of Darkness. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Before it is too late. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Understating Policies. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** The Oasis's Mirage. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Kuwait .. A Hub for the Digital Economy. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Guided by Science and Competencies. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** For Education. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Achievements not Titles. In: *AlQabas Newspaper*. Kuwait; 2021.
- **Alhuwail D.** Algorithms, Vaccines, and Crisis. In: *AlQabas Newspaper*. Kuwait; 2020.
- **Alhuwail D.** Digital Public Goods. In: *AlQabas Newspaper*. Kuwait; 2020.
- **Alhuwail D.** Digital Legislative Demands. In: *AlQabas Newspaper*. Kuwait; 2020.
- **Alhuwail D.** Cybersecurity and the Pandemic. In: *AlQabas Newspaper*. Kuwait; 2020.
- **Alhuwail D.** A Vaccine for Digital Abuse? In: *AlQabas Newspaper*. Kuwait; 2020.
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- Alhuwail D. Open Science and Knowledge for All. In: *AlQabas Newspaper*. Kuwait; 2019.
- Alhuwail D. Let Us Settle it: 16 or 1. In: *AlQabas Newspaper*. Kuwait; 2019.
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- Alhuwail D. Health Information Exchange. In: *AlQabas Newspaper*. Kuwait; 2016.
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Courses Taught

Kuwait University

GRADUATE

- **Fall 2020/2021** – MSIT 505 – Research Methodology and Seminar.
- **Spring 2018/2019** – MSCIS 580 – Health Informatics.

UNDERGRADUATE

- **Fall 2021/2022** – ISC 331 – Information Systems Theory and Practice.
- **Summer 2020/2021** – ETM 450 – Application of Information Systems in Environmental Technology.
- **Spring 2020/2021** – CLS 130 – Ethics and Practices.
- **Spring 2018/2019** – CLS 130 – Ethics and Practices.
- **Fall 2018/2019** – ISC 475 – Geographical Information Systems.
- **Fall 2018/2019** – ETM 450 – Application of Information Systems in Environmental Technology.
- **Spring 2017/2018** – ISC 380 – Introduction to Management Information Systems.
- **Spring 2017/2018** – ETM 450 – Application of Information Systems in Environmental Technology.
- **Fall 2017/2018** – ISC 100 – Fundamentals of Personal Computers.
- **Fall 2017/2018** – ISC 380 – Introduction to Management Information Systems.
- **Summer 2016/2017** – CLS 130 – Ethics and Practices.
- **Spring 2016/2017** – ETM 450 – Application of Information Systems in Environmental Technology.
- **Spring 2016/2017** – ISC 380 – Introduction to Management Information Systems.
- **Fall 2016/2017** – CLS 130 – Ethics and Practices.
- **Fall 2016/2017** – ISC 101 – Introduction to Information Systems.

University of Dundee

- **Fall 2017/2018** – GM51070 – Health Informatics Foundations.

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