

Curriculum Vitae

Dari Alhuwail, PhD, FAMIA, FIAHSI

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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*); Entrepreneurship (*Honors*); 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

Active

- **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.
- **Co-Chair**, Student and Emerging Professionals Special Interest Group, International Medical Informatics Association, 2022 – 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.
- **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.
- **Honorary Lecturer – Postgraduate Medical Education**, College of Medicine, University of Dundee, 2016 – Present.

Past

- **Acting Vice President for Planning**, Kuwait University, 1–6 September 2022.
- **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 – 2022.
- **Member**, Digital Health Technical Advisory Group, World Health Organization, 2019 – 2022.
- **Vice-Chair**, Student and Emerging Professionals Special Interest Group, International Medical Informatics Association, 2019 – 2022.
- **Team Leader & Consultant**, Technology Team, Northern Economic Zone – "Hareer", 2019 – 2020.
- **Member**, Digital Health Committee, Ministry of Health, Kuwait, 2021 – 2022.
- **Advisor**, Health Reform Strategy Initiative, Kuwait Foundation for the Advancement of Sciences, Kuwait, 2019 – 2020.
- **Evaluator**, KAFO – An Amiri Diwayan Initiative, 2019 – 2021.
- **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.
- **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.

Scientific and Academic Service

External to Kuwait University

- **Member of the Scientific Program Committee**, GCC eHealth Workforce Development Conference, 2022.
- **Member of ZIMAM Digital Health Award**, GCC eHealth Workforce Development Conference, 2022.
- **Member of the Scientific Program Committee**, HIMSS22 Middle East Health Conference & Exhibition, 2022.
- **Member**, AMIA 2022 Annual Symposium Scientific Program Committee, 2022.
- **Presenter**, Chief Science Officers Program, Kuwait Foundation for the Advancement of Sciences, 2022.
- **Interviewer**, STEM Internship Program, Kuwait Foundation for the Advancement of Sciences, 2022.
- **Interviewer**, STEM Educational Trip to South Korea, Kuwait Foundation for the Advancement of Sciences, 2022.
- **Member of the Scientific Program Committee**, GCC eHealth Workforce Development Conference, 2021.
- **Member of the Scientific Program Committee**, GCC eHealth Workforce Development Conference, 2019.

Kuwait University Service

DEPARTMENT-LEVEL

ACADEMIC YEAR 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 – 2021/2022.
- **Co-Host**, Organizing Committee, InfoSec Summit'22, Information Science Department, College of Life Sciences, Kuwait University – 2021/2022.
- **Member**, Scientific Committee, InfoSec Summit'22, Information Science Department, College of Life Sciences, Kuwait University – 2021/2022.
- **Member**, People with Disabilities Committee, Kuwait University – 2021/2022.
- **Member**, Academic Ranking Improvement Initiative Committee, Office of the Vice President for Planning, Kuwait University – 2021/2022.
- **Member**, Scientific Committee, Kuwait University Research Conference Kuwait University – Spring 2021/2022.
- **Coordinator**, Improving Kuwait University Identity, Alumni and Workplace Relations, and Cultural and Sports Activities Committee, Kuwait University Academic Ranking Improvement Initiatives, Kuwait University – Spring 2021/2022.
- **Coordinator**, Improving Data Collection Committee, Kuwait University Academic Ranking Improvement Initiatives, Kuwait University – Spring 2021/2022.
- **Rapporteur**, Web Presence Improvement Committee, Kuwait University Academic Ranking Improvement Initiatives, Kuwait University – Spring 2021/2022.
- **Member**, Improving Research Output and Capacity Committee, Kuwait University Academic Ranking Improvement Initiatives, Kuwait University – Spring 2021/2022.
- **Member**, Arab Government Excellence Award Committee, Kuwait University – Fall 2021/2022.
- **Member**, Digitization of Services and Digital Transformation Committee, Kuwait University – 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.
- **Member**, Scientific Committee, Kuwait Fire Protection Association, 2021 – 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.
- **Chair**, Rescue Committee, Kuwait Fire Protection Association, 2016 – 2019.
- **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 (MENAHA).
- International Society for Telemedicine and eHealth (ISfTeH).
- Institute of Electrical Engineers and Electronics (IEEE).
- Kuwait GIS User Group (KGUG), Kuwait.
- Kuwait Fire Protection Association (KFPA), 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 (HRRRA).
- 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

1. **Alhuwail D**, Alhouti A. (2022). Empowering Consumers for More Resilient and Sustainable Healthcare Systems: Citizen Science Approaches to Engage Least Utilized Resources and the Development of Technology Tools during COVID-19. **In:** Kuriansky J, Kakkattil P (Eds.). *Resilient Health: Leveraging Technology and Social Innovations to Transform Healthcare for COVID-19 Recovery and Beyond*. Academic Press.

2. Al-Shorbaji N, **Alhuwail D**. (2022). Chapter 16 - Health informatics in the Middle East and North Africa. **In:** Hovenga E, Grain H (Eds.). *Roadmap to Successful Digital Health Ecosystems*. Academic Press. doi: [10.1016/B978-0-12-823413-6.00029-X](https://doi.org/10.1016/B978-0-12-823413-6.00029-X)
3. 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)
4. 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 Health-care: From Challenges to Opportunities*. (Accepted). Springer.
5. **Alhuwail D**, Abd-Alrazaq A, Al-Jafar E, Househ, M. (2021). 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). Academic Press. doi: [10.1016/B978-0-323-85173-2.00008-4](https://doi.org/10.1016/B978-0-323-85173-2.00008-4)

Journal Articles

1. Alotaibi J, Tolma E, **Alhuwail D**, Alali W, Ahmed A, AlJunid S. Factors contributing to physicians' current use and satisfaction of electronic health records (EHRs) in Kuwait's Public Health care: Cross-Sectional Questionnaire Study. *JMIR Medical Informatics*. 2022 Accepted: In-press.
2. Abd-Alrazaq A, **Alhuwail D**, Al-Jafar E, Ahmed A, Shuweihdi, Reagu S, Househ M. The Effectiveness Of Serious Games In Improving Memory Among The Elderly With Cognitive Impairment: A Systematic Review And Meta-analysis. *JMIR Serious Games*. 2022 Aug 9;10(3):e35202. doi: [10.2196/35202](https://doi.org/10.2196/35202)
3. Abdulsalam Y, Alibrahim A, **Alhuwail D**, Behbehani H. A Procurement-Based Classification of Pharmaceutical Supplies for Diabetes Disease Management. *Health Science Reports*. 2022. Accepted: In-press.
4. Alaslawi H, Berrou I, Alhamid, **Alhuwail D**, Aslanpour Z. Diabetes Self-management Apps: A Systematic Review Of Adoption Determinants And Future Research Agenda. *JMIR Diabetes*. 2022 Jul 28;7(3):e28153. doi: [10.2196/28153](https://doi.org/10.2196/28153)
5. Abd-Alrazaq A, **Alhuwail D**, Ahmed A, Househ M. Effectiveness of Serious Games for Improving Executive Functions Among Older Adults With Cognitive Impairment: Systematic Review and Meta-analysis. *JMIR Serious Games*. 2022 Jul 25;10(3):e36123. doi: [10.2196/36123](https://doi.org/10.2196/36123).
6. Abd-Alrazaq A, **Alhuwail D**, Schneider J, Toro CT, Ahmed A, Alzubaidi M, Alajlani M, Househ M. The Performance Of Artificial Intelligence-driven Technologies In Diagnosing Mental Disorders: An Umbrella Review. *NPJ Digit Med*. 2022 Jul 7;5(1):87. doi: [10.1038/s41746-022-00631-8](https://doi.org/10.1038/s41746-022-00631-8).
7. Jassem Z, AlMeraj Z, **Alhuwail D**. Evaluating Breast Cancer Websites Targeting Arabic Speakers: Empirical Investigation of Popularity, Availability, Accessibility, Readability, and Quality. *BMC Medical Informatics and Decision Making*. 2022; 22(1):126. doi: [10.1186/s12911-022-01868-9](https://doi.org/10.1186/s12911-022-01868-9)
8. AlMeraj Z, Abou Doush I, **Alhuwail D**, Shama S, AlBahar A, Al-Ramahi M. Access And Experiences Of Arabic Native Speakers With Disabilities On Social Media During And After The World Pandemic. *International Journal of Human-Computer Interaction*. 2022; Accepted : In-Press. doi: [10.1080/10447318.2022.2051887](https://doi.org/10.1080/10447318.2022.2051887)
9. Abd-Alrazaq A, Alajlani M, **Alhuwail D**, Toro C, Giannicchi A, Ahmed A, Makhoulouf 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*. 2022; 10(1):e34592. doi: [10.2196/34592](https://doi.org/10.2196/34592)

10. Alibrahim A, Abdulsalam Y, Al Mutawa 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*. 2022 Mar;37(2):790-803. doi: [10.1002/hpm.3370](https://doi.org/10.1002/hpm.3370).
11. 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.
12. Abd-Alrazaq A, Alajlani M, **Alhuwail D**, Schneider J, Akhu-Zaheya L, Ahmed A, Househ M. The Effectiveness Of Serious Games In Alleviating Anxiety: A Systematic Review And Meta-analysis. *JMIR Serious Games*. 2022;10(1):e29137. doi: [10.2196/29137](https://doi.org/10.2196/29137)
13. 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*. 2022 Jan 14;10(1):e32331. doi: [10.2196/32331](https://doi.org/10.2196/32331)
14. John O, Sarbadhikari SN, Prabhu T, Goel A, Thomas A, Shroff S, Allaudin F, Weerabaddana C, **Alhuwail D**, Koirala U, Johnrose J, Codyre P, Bleaden A, Singh S, Bajaj S. Implementation and Experiences of Telehealth: Balancing Policies With Practice in Countries of South Asia, Kuwait, and the European Union. *Interactive Journal of Medical Research*. 2022 Feb 8;11(1):e30755. doi: [10.2196/30755](https://doi.org/10.2196/30755)
15. 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)
16. **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)
17. 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)
18. Fernandez-Luque L, Kushniruk AW, Georgiou A, Basu A, Petersen C, Ronquillo C, Paton C, Năyhr C, Kuziemsky 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)
19. 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)
20. 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)
21. 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)

22. 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)
23. **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)
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Peer-Reviewed Proceedings and Scientific Meetings

1. Altabtabaei R, **Alhuwail D**. Challenges and Opportunities of Use and Adoption of Telemedicine for Diabetes Care and Management During COVID-19 and Beyond. *Digital Health Beyond COVID-19: Lessons Learned*. 2022 Oct. Copenhagen, Denmark.
2. Salem E, **Alhuwail D**. Identifying the Needs of Patients with Diabetes and Healthcare Providers to Design a Smartphone Application to Improve the Quality of Service. In: *AHIMA22 Global Annual Conference*. 2022 Oct. Columbus, OH, USA.
3. **Alhuwail D**, Almeraj Z, Salem E, Behbehani H. Consumer Preferences for Portals: Insights for a Diabetes Patient Portal. In: *AHIMA22 Global Annual Conference*. 2022 Oct. Columbus, OH, USA.
4. Ronquillo CE, Mitchell J, **Alhuwail D**, Peltonen LM, Topaz M, Block LJ. The Untapped Potential of Nursing and Allied Health Data for Improved Representation of Social Determinants of Health and Intersectionality in Artificial Intelligence Applications: A Rapid Review. *Yearb Med Inform*. 2022 Jun 2. doi: [10.1055/s-0042-1742504](https://doi.org/10.1055/s-0042-1742504).
5. Fadda M, Galvin B, **Alhuwail D**, O'Rourke S. How Can Libraries Improve Health Literacy in the Middle East Region?. In: *The Evolving Health Information Landscape Symposium: Weill Cornell Medicine-Qatar, Distributed eLibrary*. 2022 Jan; 2022:11. doi: [10.5339/qproc.2022.ehi12021.11](https://doi.org/10.5339/qproc.2022.ehi12021.11)
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9. **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.
10. Barakati SS, Topaz M, Peltonen LM, Mitchell J, **Alhuwail D**, Risling T, Ronquillo C. Health informatics solutions in response to COVID-19: Preliminary insights from an international survey. In: *EFMI Special Topic Conference 2020*. 2020. e-Conference.
11. **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.
12. **Alhuwail D**, Aljafar E, Abdulsalam Y, Alduaij S. Information Security Behaviors of Healthcare Professionals in Kuwait. In: *Kuwait University Scientific Research Poster Day*. 2019. Kuwait City, Kuwait.
13. **Alhuwail D**, Albaj R, Ahmad F, Aldakheel K. Mental Health Apps: A Systematic Assessment of Anxiety and Depression Arabic Apps. In: *Kuwait University Scientific Research Poster Day*. 2019. Kuwait City, Kuwait.
14. Alibrahim A, Abdulsalam Y, Al Mutawa S, Behbehani H, Al Jenaie S, **Alhuwail D**. Towards Value-Based Health Care – Establishing Pharmacy Department Baseline Costs at Dasman Diabetes Institute. In: *Kuwait University Scientific Research Poster Day*. 2019. Kuwait City, Kuwait.

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16. **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.
17. AlMeraj Z, **Alhuwail D**, Boujarwah F. Evaluation of Nine Hospital Websites in Kuwait According to Accessibility, Content, Presence and Usability. In: *Kuwait University Scientific Research Poster Day*. 2018. Kuwait City, Kuwait.
18. **Alhuwail D**, Abdulsalam Y. Seeking Health Information Online in Kuwait: An Exploratory Study. In: *Kuwait University Scientific Research Poster Day*. 2018. Kuwait City, Kuwait.
19. 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.
20. 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.
21. **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.
22. **Alhuwail D**, Wake D, Barnes R, Alkandari H, Badawi D, Shaltout A. Reporting on the Use of mHealth and Novel Health IT tools for the Development of the Childhood Onset Diabetes eRegistry (CODeR) in the State of Kuwait. In: *Second International Computing Sciences and Engineering Conference*. 2018. Kuwait City, Kuwait.
23. Boujarwah F, **Alhuwail D**, AlMeraj Z. Cross-Sectional Evaluation of Hospital Websites in Kuwait. In: *Second International Computing Sciences and Engineering Conference*. 2018. Kuwait City, Kuwait.
24. Alsharrah S, **Alhuwail D**, Aljalahma H, Coffee N, Daniel M, Alozairi E, Alrefaei F. Use of Geographic Information Systems (GIS) to map diabetic patients in the State of Kuwait – A pilot study. In: *Second International Computing Sciences and Engineering Conference*. 2018. Kuwait City, Kuwait.
25. Alsharrah S, **Alhuwail D**, Aljalahma H, Coffee N, Daniel M, Alozairi E, Alrefaei F. Dasman Diabetes Institute-Canberra GeoHealth Initiative: Using a spatial lens to understand diabetes in relation to social, built and physical environmental factors shaping risks and outcomes. In: *The 1st Annual Saudi Community Health Symposium (Women's Health and Wellbeing)*. King Saud University. 2017. Riyadh, Saudi Arabia.
26. **Alhuwail D**. Leveraging Health Informatics for Better Health Care: Challenges and Opportunities in the State of Kuwait. In: *International Kuwait Health Information Conference*. 2017. Kuwait City, Kuwait.
27. **Alhuwail D**, Aljalahma H, Abduo H, Abu-Ghefreh A, Halawa N, Dawwas B, Alqabandi N, Al Qersh M. Assessing the Usage Patterns of a Diabetes Education Website Available for Arabic Speakers: Insights and Recommendations. In: *International Diabetes Federation Congress*. 2017. Abu Dhabi, UAE.
28. **Alhuwail D**. Utilizing Information Technology to Improve Patient Safety while Engaging Patients in Care: Opportunities for the State of Kuwait. In: *Kuwait Conference on Quality in Healthcare*. 2017. Kuwait City, Kuwait.
29. **Alhuwail D**, Koru G. Challenges and Opportunities of Leveraging Exergames at Home for Diabetes Management: An Exploratory Study from Kuwait. In: *H3IT 2017: Home Healthcare and Hospice Information Technology Conference*. 2017. Washington D.C., USA.

30. **Alhuwail D**, Callaghan-Koru J, Braunschweig B, Koru G. Engaging Home Care Patients and Caregivers for Better Fall Risk Management: Challenges, Opportunities, and Leveraging Information Technology. In: *H3IT 2016: Home Healthcare and Hospice Information Technology Conference*. 2016. Chicago, IL, USA.
31. Topaz M, Ronquillo C, Peltonen LM, Pruinelli L, Sarmiento RF, Badger MK, Ali S, Lewis A, Georgsson M, Jeon E, Tayaben JL, Kuo CH, Islam T, Sommer J, Jung H, Eler GJ, **Alhuwail D**, Lee YL. Nurse Informaticians Report Low Satisfaction and Multi-level Concerns with Electronic Health Records: Results from an International Survey. In: *AMIA Annu Symp Proc, 2016:2016-2025*. 2016. Chicago, IL, USA.
32. **Alhuwail D**, Koru G. Investigating how health IT solutions responded to information needs for fall-risk management: A case study. In: *American Medical Informatics Association Annual Conference*. 2016. Chicago, IL, USA.
33. Jademi O, Uchidiuno U, **Alhuwail D**, Koru G. Informing the requirements for IT-based fall risk management solutions in home health care. In: *American Medical Informatics Association Annual Conference*. 2016. Chicago, IL, USA.
34. **Alhuwail D**, Koru G. Identifying home care clinicians' information needs to achieve better care coordination in fall risk management. In: *Summer Institute in Nursing Informatics*. 2016. Baltimore, MD, USA.
35. Uchidiuno U, Koru G, Parameshwarappa P, **Alhuwail D**. Leveraging data analytics to investigate the relationship between patient demographic and falls in home care. In: *Summer Institute in Nursing Informatics*. 2016. Baltimore, MD, USA.
36. *Best Poster Award Finalist* –**Alhuwail D**, Koru G. Identifying home care clinical practices most associated with hospital readmissions and non-admitted ER visit rates: Secondary data analysis. In: *American Medical Informatics Association Annual Conference*. 2015. San Francisco, CA, USA.
37. **Alhuwail D**, Koru G. Identifying home care providers' information needs for managing and reducing fall risks. In: *H3IT 2015: Home Healthcare and Hospice Information Technology Conference*. 2015. Nashville, TN, USA.
38. Koru G, **Alhuwail D**, Rosati RJ. Informing health IT adoption strategies in home care through identifying Key Performance Improvement Domains for home health agencies. In: *H3IT 2015: Home Healthcare and Hospice Information Technology Conference*. 2015. Nashville, TN, USA.
39. Koru G, Parameshwarappa P, **Alhuwail D**. Leveraging public data to investigate home care quality in urban and rural America. In: *H3IT 2015: Home Healthcare and Hospice Information Technology Conference*. 2015. Nashville, TN, USA.
40. 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.
41. Koru G, **Alhuwail D**. Realizing the benefits of home health compare infrastructure: Identifying the home care clinical practices most associated with hospital readmissions and non-admitted ER visit rates. In: *Maryland-National Capital Homecare Association (MNCHA) Annual Meeting*. 2015. Baltimore, MD, USA.
42. Koru G, **Alhuwail D**, Aifan A. Realizing the benefits of home care data: Identifying home care clinical practices most associated with hospital readmissions and non-admitted ER visit rates. In: *Summer Institute in Nursing Informatics*. 2015. Baltimore, MD, USA.
43. **Alhuwail D**, Norcio AF. Information technology and systems in the fire service: A literature review. In: *International Conference on Computer Sciences and Engineering*. 2015. Kuwait City, Kuwait.

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45. Koru G, **Alhuwail D**, Topaz M, Mills ME, Norcio AF. Toward effective and efficient health IT adoption in home care. In: *H3IT 2014: Home Healthcare and Hospice Information Technology Conference*. 2014. Washington D.C., USA.
46. Koru G, **Alhuwail D**. Health IT adoption in Maryland home health agencies. In: *Home Health IT Summit*. 2014. Baltimore, MD, USA.
47. Koru G, **Alhuwail D**, Mills ME, Topaz M, Norcio AF. Health IT adoption in home health agencies. In: *Summer Institute in Nursing Informatics*. 2014. Baltimore, MD, USA.
48. Shaltout A, Kaldani E, **Alhuwail D**, Safran C, Feldman H, AlKhuzam A, Kaldani A, Behbehani K. ReportWriter: An innovative electronic health record for more efficient and enhanced quality of diabetes care. In: *International Society for Pediatric and Adolescent Diabetes*. 2011. Miami, FL, USA.
49. Shaltout A, Barnes R, Fairley E, **Alhuwail D**, AlArouj M, Bennakhi A, AlKhawari M, Badawi D, AlKhuzam A, Behbehani K, Morris A. Innovation development of eRegistry for Childhood- Onset Diabetes in Kuwait. In: *International Society for Pediatric and Adolescent Diabetes*. 2011. Miami, FL, USA.
50. Wake D, Thangavel A, Barnes R, **Alhuwail D**, AlKhuzam A, Farran B, Channanath A, AlRefaie F, Morris A, Behbehani K, AlArouj M, Bennakhi A. Defining Diabetes in Kuwait: Using informatics to understand and help a diabetes population (KSEIN). In: *International Society for Pediatric and Adolescent Diabetes*. 2011. Miami, FL, USA.
51. Greene A, Shaltout A, Alexander V, Brilliante M, Cunningham S, Fairley E, Halwa N, **Alhuwail D**, Wake D, Greene S. Integrating "Sweet Text" a mobile phone behavioral support programme for young people with T1D into clinical service in Kuwait and Scotland. In: *International Society for Pediatric and Adolescent Diabetes*. 2011. Miami, FL, USA.
52. **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.
53. **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

Thesis

- 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.
- 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.
- Latifah Alsarhan – **Primary Supervisor**: Remote Work Cybersecurity Preparedness in Kuwait: An Empirical Investigation. 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.

- Maryam Almahdi – **Primary Supervisor:** *Exploring Technical Factors Affecting AI Automation Models Implementation in Kuwait's Public Hospital System.* Thesis, Masters of Science in Information Technology, 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.

Project

- 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 – 2022.
- 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 – 2022.
- 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.

Graduate Programs Examination Committees

- Nourah Almutairi – **Examiner:** *Measuring the user's satisfaction with Public Authority for Minor's Affairs.* Project, Masters of Science in Information Technology, College of Life Sciences – Kuwait University, Kuwait – 2022.
- 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.** *Data and Citizen Science x Pandemic: Voluntary efforts fighting COVID-19 using digital tools.* In: *Computer Applications and Technological Solutions (CATS'22).* Kuwait City, Kuwait; 2022.
- **Alhuwail D.** *Lessons and Recommendations.* In: *Kuwait University's 1st Research Conference.* Kuwait City, Kuwait; 2022.
- **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.* In: *Global Conference: A destination in sight: Doing it right to bring personalized healthcare to patients.* Online, Germany; 2021.
- **Alhuwail D.** *Examining Healthcare Professionals' Cybersecurity Awareness and Behaviors: Lessons and Recommendations.* In: *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.

¹ Articles published in the Arabic Language – Titles loosely translated.

- *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.*
- *Alhuwail D. The Role of Society and Interdisciplinary Collaboration. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Abdullah Alsalem University .. Nontraditional University. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Restricted Education. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Open Data ... A Weapon to Protect the Public Interest. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Violating Privacy in the Name of Democracy. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. The Dream of Endowment Universities. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Consult for Success. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Consult for Success. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Programming in the Young Age. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Don’t Leave Anyone Between Zero and One. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Data Science and the National Strategy. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. The New Oil and the Law to Explore for it. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Digitizing Bureaucracy. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Ethics of Digital Contact Tracing. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. The Numbers Pandemic. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Working Remotely. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. The Infectious Virus of Misinformation. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Fighting COVID19 Digitally. In: AlQabas Newspaper. Kuwait; 2020.*

- *Alhuwail D. An attack every 39 seconds. In: AlQabas Newspaper. Kuwait; 2020.*
- *Alhuwail D. Our Health on a Map. In: AlQabas Newspaper. Kuwait; 2020.*
- *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.*
- *Alhuwail D. Towards Learning Health Systems. In: AlQabas Newspaper. Kuwait; 2019.*
- *Alhuwail D. Live Medical Care – Telemedicine. In: AlQabas Newspaper. Kuwait; 2019.*
- *Alhuwail D. Digitizing Kuwait 2035. In: AlQabas Newspaper. Kuwait; 2019.*
- *Alhuwail D. Are We Ready for a Knowledge-based Economy. In: AlQabas Newspaper. Kuwait; 2018.*
- *Alhuwail D. Technology Addiction. In: AlQabas Newspaper. Kuwait; 2018.*
- *Alhuwail D. The Flame of Informatics. In: AlQabas Newspaper. Kuwait; 2018.*
- *Alhuwail D. More Intelligent Healthcare ... Artificially. In: AlQabas Newspaper. Kuwait; 2018.*
- *Alhuwail D. Your Electronic Health Records in your Pocket. In: AlQabas Newspaper. Kuwait; 2018.*
- *Alhuwail D. Virtual Reality in Amiri Hospital. In: AlQabas Newspaper. Kuwait; 2018.*
- *Alhuwail D. Blockchain and its Healthcare Applications. In: AlQabas Newspaper. Kuwait; 2018.*
- *Alhuwail D. The Knowledge Economy Revolution. In: AlQabas Newspaper. Kuwait; 2017.*
- *Alhuwail D. Free Information from their Captivity. In: AlQabas Newspaper. Kuwait; 2017.*
- *Alhuwail D. 5-Star Patient Experience. In: AlQabas Newspaper. Kuwait; 2017.*
- *Alhuwail D. GIS Applications and Expectations. In: AlQabas Newspaper. Kuwait; 2017.*
- *Alhuwail D. Combating Cybercrime. In: AlQabas Newspaper. Kuwait; 2017.*
- *Alhuwail D. eGovernment. In: AlQabas Newspaper. Kuwait; 2017.*
- *Alhuwail D. The Internet-of-Things in Healthcare. In: AlQabas Newspaper. Kuwait; 2017.*
- *Alhuwail D. Health Information Exchange. In: AlQabas Newspaper. Kuwait; 2016.*
- *Alhuwail D. Health Informatics: Introduction and Definition. In: AlQabas Newspaper. Kuwait; 2016.*

Courses Taught

Kuwait University

GRADUATE

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

UNDERGRADUATE

- *Summer 2021/2022 – CLS 135 – Leadership Development.*
- *Spring 2021/2022 – CLS 135 – Leadership Development.*
- *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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