

## Academic Resume



**Reem Alnanih**

**Associate Professor, Computer Science Department**

### Contact Information.

Room 109, ralnanih@kau.edu.sa.

### Highest Degree.

2015, Ph.D. in Computer Science, HCI, Software Engineering and Quality Measurement, Concordia University, Canada.

### Academic and Professional Experiences.

1. **2023 - Present**  
Vice Dean for Scientific Research- Female Section, Deanship Scientific Research,, , King Abdulaziz University.
2. **2021 - Present**  
Member in the editorial board of Journal of King Abdulaziz University Computing and Information Technology, Jeddah, Saudi Arabia, KAU.
3. **2020 - Present**  
Associate professor, Computer Science Department, Faculty of computing and information technology (FCIT), Jeddah, Saudi Arabia, King Abdulaziz University., , .
4. **2019 - 2021**  
Supervisor of the Computer and Information Technology Department, Faculty of Applied Studies., Jeddah, King Abdulaziz University..
5. **2018 - 2019**  
Head of the Graduate Studies Unit in the faculty on Computing and information Technology, KAU., Jeddah, King Abdulaziz University.
6. **2018 - 2019**  
Member of the Applied Diploma Committee in Software Engineering and Applications in the Department of Computer Science, Faculty of Computing and Information Technology, Jeddah, Saudi Arabia, KAU.
7. **2017 - 2023**  
Head of the innovation and entrepreneurship Unit at the faculty of Computing and information Technology, FCIT, King Abdulaziz University.
8. **2015 - Present**  
Assistant professor, Computer Science Department, Faculty of computing and information technology (FCIT), Jeddah, Saudi Arabia, King Abdulaziz University.

## Research Interests.

Software Engineering and Testing, Quality Measurement Assessment, Human Computer Interaction including user research studies, user experience design, and sustainability, Application of Virtual Reality Human-Computer Interaction Technology, Metavers, Designing and assessing the quality of healthcare systems and applications.

## Teaching Interests.

Software Engineering, Human Computer Interaction, Quality Measurement, Discrete Math, Seminar, Seminar, Supervising Master and PhD students..

## Certifications and Trainings.

1. Certificate for participation in Social Initiative and Management Team Workshop, 2018.
2. Certificated for attending and participation for the Data Science Foundation Program, 2019.
3. Certificate for participation in the company program, one of the programs of Saudi achievement for 45 hours, 2019.
4. Certificate in attending the training program of Giving Effective Feedback.
5. Certificate in attending the training program of Preparation of Academic Promotion File. 2016. KAU.
6. GPSC 450: Writing For Publication 2013, Canada.
7. Certificate of achievement in recognition of successful completion of Diploma of professional development in teaching and learning Fall 2017.
8. Certificate in achievement 32 hour Graduate Seminar in university Teaching, 08, 2012.
9. Certificate in attending the workshop of Academic excellence and achieve excellence in entrepreneurship and business world for the public and private sectors. KAU.
10. Product development: proof of concept- prototyping- MVP testing by the Knowledge Economy and Technology Transfer Center, KAU.
11. Development of the Acadmic Research Environment and its Resources by Center for Teaching and Learning Development. KAU.
12. Key Performance Indicators (KPIS) By Center for Teaching and Learning Development. KAU.
13. ISO 2015: 9001 Quality Management System.
14. Certificate of Completion of the Effective Personal Leadership Course - LMI - 15/06/2023.
15. Regulation Impact Assessment, Center for Teaching and Learning Development. KAU 12-13/5/2024.

## Social, Scientific and Professional Affiliation.

## Excellence Awards and Patents.

1. 2023, Interior, Interior, Awarded gold medals for participating in scientific research,, at the Saudi International Exhibition for Inventions and Innovations, Jeddah, Saudi Arabia on 22/12/2023..
2. 2017, Interior, Awarded Certificate of Achievement: "the Diploma of Professional Development in Teaching and Learning", Center for Teaching and Learning Development in King Abdulaziz University. Jeddah Kingdom of Saudi Arabia..
3. 2020, International, Third place in Warsaw Virtual International invention in Poland (Elderly Medication Application)., Warsaw Virtual International invention..

## Publications.

1. Norah Abdullah Al-Johany, Sanaa Abdullah Sharaf, Fathy Elbouraey Eassa, Reem Abdulaziz Alnanihi, "Static Analysis Techniques For Fixing Software Defects In Mpi-Based Parallel Programs", Computers, Materials & Continua, vol: 0, pp. 1-10, 2024.  
DOI: [10.32604/cmc.2024.047392](https://doi.org/10.32604/cmc.2024.047392)
2. Reem Alnanihi, Amal Balabid, Lina Bahmdean, "Senior-Centered Design For Mobile Medication Adherence Applications Based On Cognitive And Technology Attributes", Universal Access In The Information Society, 2023.  
DOI: [10.1007/s10209-023-00979-y](https://doi.org/10.1007/s10209-023-00979-y)
3. Kholoud Aljedaani, Reem Alnanihi, "Spaced Retrieval Therapy Mobile Application For Alzheimer"S Patients: A Usability Testing", International Journal Of Computational Science And Engineering, vol: 26, pp. 361-371, 2023.  
DOI: [10.1504/IJCSE.2023.132153](https://doi.org/10.1504/IJCSE.2023.132153)
4. Asma Alwadai, Reem Alnanihi, "Applying Design Thinking Approach To Improve Online Education", vol: 561, pp. 660-679, 2022.  
DOI: [10.1007/978-3-031-18344-7\\_47](https://doi.org/10.1007/978-3-031-18344-7_47)
5. Kholoud Aljedaani, Reem Alnanihi, "Spaced Retrieval Therapy Mobile Application For Alzheimer Patients: A Usability Testing", International Journal Of Computational Science And Engineering, 2022.
6. Shahad Aldahri, Reem Alnanihi, "Multi-Method Approach For User Experience Of Selfie-Taking Mobile Applications", International Journal Of Advanced Computer Science And Applications, vol: 13, 2022.  
DOI: [10.14569/IJACSA.2022.01309101](https://doi.org/10.14569/IJACSA.2022.01309101)
7. Asma Alwadei, Reem Alnanihi, "Designing A Tool To Address The Depression Of Children During Online Education", Procedia Computer Science, vol: 203, pp. 173-180, 2022.  
DOI: [10.1016/j.procs.2022.07.024](https://doi.org/10.1016/j.procs.2022.07.024)
8. Ahad Alloqmani, Omimah Alsaedi, Nadia Bahatheg, Reem Alnanihi, Lamiaa Elrefaei, "Design Principles-Based Interactive Learning Tool For Solving Nonlinear Equations", Computer Systems Science And Engineering, vol: 40, pp. 1023-1042, 2022.  
DOI: [10.32604/csse.2022.019704](https://doi.org/10.32604/csse.2022.019704)
9. Hanaa Alzahrani, Reem Alnanihi, "Tool-Based Persona For Designing User Interfaces In Healthcare", International Journal Of Computer Applications In Technology, vol: 66, pp. 219, 2021.  
DOI: [10.1504/IJCAT.2021.119770](https://doi.org/10.1504/IJCAT.2021.119770)
10. Eythar Alghamdi, Reem Alnanihi, "Chatbot Design For A Healthy Life To Celiac Patients: A Study According To A New Behavior Change Model", International Journal Of Advanced Computer Science And Applications, vol: 12, 2021.  
DOI: [10.14569/IJACSA.2021.0121077](https://doi.org/10.14569/IJACSA.2021.0121077)
11. Eythar Alghamdi, Aseel Alsaedi, Sarah Alsubhi, Reem Alnanihi, Lamia Elrefaei, "The Effect Of User Experience On Designing Interactive Tool: A Case Study Of Learning Images Compression", International Journal Of Emerging Trends In Engineering Research, vol: 9, pp. 1312-1320, 2021.  
DOI: [10.30534/ijeter/2021/039102021](https://doi.org/10.30534/ijeter/2021/039102021)
12. Kholoud Abdulrahman Aljedaani, Reem Abdulaziz Alnanihi, "Grounded Theory For The Design Of Mobile User Interfaces-Based On Space Retrieval Therapy", International Journal Of Interactive Mobile Technologies (Ijim), vol: 15, pp. 104, 2021.  
DOI: [10.3991/ijim.v15i12.21487](https://doi.org/10.3991/ijim.v15i12.21487)
13. Nadia Bahatheg, Ahad Alloqmani, Omimah Alsaedi, Reem Alnanihi, Lamia Elrefaei, "Interactive Learning Tool For Image Compression Using Singular Value Decomposition", vol: 1364, pp. 923-942, 2021.  
DOI: [10.1007/978-3-030-73103-8\\_67](https://doi.org/10.1007/978-3-030-73103-8_67)

## Publications.

14. Hanaa Abdulkareem Alzahrani, Reem Abdulaziz Alnanih, "A Design Study To Improve User Experience Of A Procedure Booking Software In Healthcare", International Journal Of Advanced Computer Science And Applications, vol: 11, 2020.  
DOI: [10.14569/IJACSA.2020.0111132](https://doi.org/10.14569/IJACSA.2020.0111132)
15. Manar Abu Talib, Reem Alnanih, Adel Khelifi, "Application Of Quality In Use Model To Assess The User Experience Of Open Source Digital Forensics Tools", International Journal Of Electronic Security And Digital Forensics, vol: 12, pp. 43, 2020.  
DOI: [10.1504/IJESDF.2020.103870](https://doi.org/10.1504/IJESDF.2020.103870)
16. Nahed Alsaleh, Reem Alnanih, "Gamification-Based Behavioral Change In Children With Diabetes Mellitus", Procedia Computer Science, vol: 170, pp. 442-449, 2020.  
DOI: [10.1016/j.procs.2020.03.087](https://doi.org/10.1016/j.procs.2020.03.087)
17. Reem Alnanih, "Usability Issues And Design Guidelines For User Interfaces For Elderly Users. International Journal Of Advanced Science And Technology (Ijast). Vol. 28, No.13, Pp.138-148.", International Journal Of Advanced Science And Technology, 2019.
18. Reem Alnanih, "Cognitive Process-Based Design Implications For Mobile User Interfaces", International Journal Of Emerging Trends In Engineering Research, vol: 7, pp. 523-529, 2019.  
DOI: [10.30534/ijeter/2019/207112019](https://doi.org/10.30534/ijeter/2019/207112019)
19. Hanaa Alzahrani, Reem Alnanih, "The Effect Of User Experience On The Quality Of User Interface Design In Healthcare", vol: 1098, pp. 40-51, 2019.  
DOI: [10.1007/978-3-030-36368-0\\_4](https://doi.org/10.1007/978-3-030-36368-0_4)
20. Reem Alnanih, "Mobile-D Approach-Based Persona For Designing User Interface", International Journal Of Advanced Trends In Computer Science And Engineering, pp. 2597-2607, 2019.  
DOI: [10.30534/ijatcse/2019/111852019](https://doi.org/10.30534/ijatcse/2019/111852019)
21. Nahed Alsaleh, Reem Alnanih, "Mapping Gamification Mechanisms To User Experience Factors For Designing User Interfaces", Journal Of Computer Science, vol: 15, pp. 736-744, 2019.  
DOI: [10.3844/jcssp.2019.736.744](https://doi.org/10.3844/jcssp.2019.736.744)
22. Reem Alnanih, "Improving Software Quality-In-Use Model For Mobile Applications. Position Paper In The Software Measurement News, Specialized Journal Of The Software Metrics Community. Volume 22, Number 1, February.", Canada, 2017.
23. Reem Alnanih, Olga Ormandjieva, "Mapping Hci Principles To Design Quality Of Mobile User Interfaces In Healthcare Applications", Procedia Computer Science, vol: 94, pp. 75-82, 2016.  
DOI: [10.1016/j.procs.2016.08.014](https://doi.org/10.1016/j.procs.2016.08.014)
24. Reem Alnanih, Olga Ormandjieva, T. Radhakrishnan, "A New Methodology (Con-Info) For Context-Based Development Of A Mobile User Interface In Healthcare Applications", pp. 317-342, 2014.  
DOI: [10.1007/978-1-4471-6413-5\\_13](https://doi.org/10.1007/978-1-4471-6413-5_13)
25. Reem Alnanih, Olga Ormandjieva, Thiruvengadam Radhakrishnan, "Empirical Evaluation Of Intelligent Mobile User Interfaces In Healthcare", vol: 8436, pp. 23-34, 2014.  
DOI: [10.1007/978-3-319-06483-3\\_3](https://doi.org/10.1007/978-3-319-06483-3_3)
26. Reem Alnanih, Olga Ormandjieva, T. Radhakrishnan, "A New Quality-In-Use Model For Mobile User Interfaces", 2013 Joint Conference Of The 23rd International Workshop On Software Measurement And The 8th International Conference On Software Process And Product Measurement (Iwsm-Mensura), pp. 165-170, 2013.  
DOI: [10.1109/IWSM-Mensura.2013.32](https://doi.org/10.1109/IWSM-Mensura.2013.32)
27. Reem Alnanih, Olga Ormandjieva, T. Radhakrishnan, "Context-Based And Rule-Based Adaptation Of Mobile User Interfaces In Mhealth", Procedia Computer Science, vol: 21, pp. 390-397, 2013.  
DOI: [10.1016/j.procs.2013.09.051](https://doi.org/10.1016/j.procs.2013.09.051)

## Publications.

28. Reem Alnanih, Olga Ormandjieva, T. Radhakrishnan, "Context-Based User Stereotype Model For Mobile User Interfaces In Health Care Applications", *Procedia Computer Science*, vol: 19, pp. 1020-1027, 2013.  
DOI: [10.1016/j.procs.2013.06.142](https://doi.org/10.1016/j.procs.2013.06.142)
29. R. Alnanih, T. Radhakrishnan, O. Ormandjieva, "Characterising Context For Mobile User Interfaces In Health Care Applications", *Procedia Computer Science*, vol: 10, pp. 1086-1093, 2012.  
DOI: [10.1016/j.procs.2012.06.153](https://doi.org/10.1016/j.procs.2012.06.153)
30. Alnanih, R., Ormandjieva, O., Radhakrishnan, T., "Challenges Of Designing User Interfaces For Mobile Health Information Systems. In: *Proceedings Of The Ieee Canada Wie National Conference (Wienc11)*, April 29-30, 2011, Toronto, Canada", Canada, 2011.
31. Reem Al-Nanih, Hana Al-Nuaim, Olga Ormandjieva, "New Health Information Systems (His) Quality-In-Use Model Based On The Gqm??Approach And??Hci Principles", vol: 5613, pp. 429-438, 2009.  
DOI: [10.1007/978-3-642-02583-9\\_47](https://doi.org/10.1007/978-3-642-02583-9_47)