

Prof. Dr. Asadullah Shaikh



Professor (Software Engineering)
Premium Saudi Residency Holder

B.Sc(UK), M.Sc(Sweden), and PhD(Denmark). Senior Member, IEEE

Curriculum Vitae

"Man is what he reads"

Objective

I want to contribute to science by producing high-quality research students through teaching and supervision. My aim is to conduct high-quality research and publish papers in top-class conferences and impact factor journals. I am also interested to create innovative software verification, validation techniques, and blockchain technologies. I have 10 years of teaching and research experience in the field of software engineering and management. My research interests include but are not limited to Software Engineering, Health Informatics, Artificial Intelligence using Machine Learning, Cloud Computing, E-Learning, and Mobile Technologies.

Education

- 2010–2013 **Doctorate, Ph.D (Software Engineering)**, *The University of Southern Denmark, Denmark.*
- 2005–2007 **Graduate, M.Sc Software Engineering and Management)**, *Göteborg University, Sweden.*
- 2000–2004 **Undergraduate, B.Sc (Software Development)**, *The University of Huddersfield, England.*

Work Experience

- Mar.2022–
to.date **Professor (Computer Science and Information Systems) and Head of Research and Graduate Studies**, *Najran University, Najran, Saudi Arabia.*
- Sep.2018–
Mar. 2022 **Associate Professor (Computer Science and Information Systems) and Head of Research and Graduate Studies**, *Najran University, Najran, Saudi Arabia.*

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- Aug.2013– **Assistant Professor (Computer Science and Information Systems) and Head of Research**, *Najran University, Najran, Saudi Arabia.*
 Sep. 2018
- Sep.2010– **Research Assistant/PhD Scholar**, *Maersk Mc-Kinney Moller Institute, University of Southern Denmark.*
 Feb.2013
- Apr.2008– **Research Assistant/PhD Scholar**, *Software Engineering Group GRES-UOC Rambla del Poblenou 156, Barcelona, Spain.*
 Dec.2009
- Feb.2006– **Information Technology Manager**, *Lai Thai Artillerigatan 8, 41503 Göteborg, Sweden.*
 Mar.2008
- Mar.1998– **Computer Administrator and Ex. Manager**, *Excellence of Studies (Eos) English, Language and Coaching Center, Hyderabad, Pakistan.*
 Dec.2000

Non-Academic Experience

- November.2023– **Member**, *Scientific Council, Najran, Saudi Arabia.*
 Present
- Sep.2013– **Head of Software Engineering Knowledge group for ABET and NCAAA Accreditation**, *College of Computer Science and Information Systems, Najran University, Najran, Saudi Arabia.*
 Present
- Apr.2016– **Head of Research**, *College of Computer Science and Information Systems, Najran University, Najran, Saudi Arabia.*
 Present
- Nov.2019– **Head of Research and Graduate Studies**, *Department of Information Systems, Najran University, Najran, Saudi Arabia.*
 Present
- Nov.2018– **Member**, *Scientific Engineering Research Council (SERC), Najran, Saudi Arabia.*
 Nov.2020
- April.2021– **Consultant**, *Scientific Engineering Research Council (SERC), Najran, Saudi Arabia.*
 Present

Current Research Interests

Software Engineering, Software Verification and Validation, Health Informatics, Machine Learning, Service Oriented Architecture (SOA), Cloud Computing and Software Process Improvement (SPI), and Block Chain Technology.

Completed Theses and Projects

- Doctoral Thesis **Methods and Concepts for Efficient Verification of UML/OCL Models**, Supervised By: Professor Uffe Wiil.
- Master's Thesis **A System Design For A Tele-Medicine Health Care System**, Supervised By: Professor Thomas Lundqvist .
- Master's Semester III Research Project **Strengths And Weaknesses of Maturity Driven Process Improvement Efforts.**

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Master's Semester II Technical Challenge Project **Online Web-Based Admission System.**

Master's Semester II Industry Challenge Project **Model-Driven Architecture in Embedded Systems.**

Bachelor's Final Project **Secure Pc Access and Spyware.**

Bachelor's Semester Project **Development of Website for Shopping Places.**

Funded Projects

Project 1

Title Enhancing the Quality of Service for Real Time Traffic over Optical Burst Switching (OBS) Networks with Ensuring the Fairness for Other Traffics

Researches Muhammad Abdullatef Ali Al-shargabi and Asadullah Shaikh

Grant No NU/ESCI/14/53 Najran University

Dates January 2015–January 2016

FPR. Status Completed

Project 2

Title Evaluating and Ranking Cloud-based E-Learning Critical Success Factors (CSFs) using Combinatorial Approach

Researches Quadri Noorulhasan Naveed, Mohamed Noor Quershi, Asadullah Shaikh, Sumaya Sanober, Khalid Mohiuddin

Grant No DF-516-305-1441 Deanship of Scientific Research King AbdulAziz University, Jeddah Saudi Arabia

Dates February 2019–February 2020

FPR. Status Completed

Project 3

Title PEMC: Power Efficiency Measurement Calculator to Compute Power Efficiency and CO2 Emissions in Cloud Data Centers

Researches Asadullah Shaikh and M. A. Elmagzoub

Grant No NU/ESCI/16/087 Najran University

Dates February 2019 to October 2020

FPR. Status Completed

Project 4

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Title A Review on MIMO Wireless Signalover Fibre for Next Generation Fibre Wireless (FiWi) Broadband Networks
Researches M. A. Elmagzoub and Asadullah Shaikh
Grant No NU/ESCI/17/084 Najran University
Dates February 2019 to November 2020
FPR. Status Completed

Project 5

Title Ontology-Based Verification of UML Class Model XOR Constraint and Dependency Relationship Constraints
Researches Asadullah Shaikh, Abdullah Alghamdi, and M. A. Elmagzoub
Grant No NU/ESCI/17/098 Najran University
Dates April 2020 to April 2021
FPR. Status Completed

Project 6

Title Tele-COVID A Telemedicine Architectural Design for COVID 19 Patients
Researches Asadullah Shaikh, Mana Al Reshan, and Hani Alshahrani
Grant No NU/ESCI/18/010 Najran University
Dates April 2020 to April 2021
FPR. Status Completed

Project 7

Title A Learning-Based Fault Localization Approach Using Subset of Likely and Dynamic Invariants
Researches Asadullah Shaikh, Abdullah Alghamdi, and M. A. Elmagzoub
Grant No NU/-/SERC/10/552 Najran University
Dates April 2021 to April 2022
FPR. Status Completed

Project 8

Title A Survey of Swarm Intelligence based Load Balancing Techniques in Cloud Computing Environment
Researches M. A. Elmagzoub, Asadullah Shaikh, and Abdullah Alghamdi
Grant No NU/-/SERC/10/555 Najran University
Dates April 2021 to April 2022
FPR. Status Completed

Project 9

Title More Than Two Decades of Research on Verification of UML Class Models: A Systematic Literature Review
Researches Abdullah Alghamdi, Asadullah Shaikh, and Mana Saleh Al Reshan
Grant No NU/-/SERC/10/525 Najran University
Dates April 2021 to April 2022

FPR. Status Completed

Project 10

Title Pre-processing Approach For Detection of Cardiac Health Condition

Researches Asadullah Shaikh

Grant No NU/NRP/SERC/11/16 Najran University

Dates Feb 2022 to Feb 2023

FPR. Status Ongoing

Project 11

Title Deep Learning Models to Predict Multistep Traffic

Researches Asadullah Shaikh and Basit Shahzad

Grant No NU/RC/SERC/11/8 Najran University

Dates Feb 2022 to Feb 2023

FPR. Status Completed

Project 12

Title A Convolution Neural Network Design for Knee Osteoarthritis Diagnosis Using X-ray Images

Researches Asadullah Shaikh, Saleh Mansoor, Mehdi Alyami and Saleh Alyami

Grant No NU/SRP/SERC/12/29 Najran University

Dates Feb 2023 to Feb 2024

FPR. Status Completed

Project 13

Title Detection of Cyberbullying Patterns in Low Resources using Natural Language Processing using Machine Learning and Ensemble Techniques

Researches Asadullah Shaikh, and Mana Saleh Al Reshan

Grant No NU/DRP/SERC/12/36 Najran University

Dates Feb 2023 to Feb 2024

FPR. Status Completed

Project 14

Title An Efficient Framework to Enhance Cloud-based IoT Security and Privacy

Researches Asadullah Shaikh, Adel Sulaiman, and Mana Saleh Al Reshan

Grant No NU/RG/SERC/12/33 Najran University

Dates Feb 2023 to Feb 2024

FPR. Status Completed

Project 15

Title Brain-Computer Interface with Improved Information of EEG Signal

Researches Asadullah Shaikh

Grant No NU/RCP/SERC/12/15 Najran University

Dates Feb 2023 to Feb 2024

FPR. Status Completed

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Project 16

Title Genomics-Cyber Risks: Investigating Security Challenges and its Mitigation Strategies for Next-Generation Sequencing (NGS) Data
Researches Hani Alshahrani, Asadullah Shaikh and Nasreen Anjum
Grant No UK-SAUDI British Council Grant Award
Dates Apr 2024 to Apr 2025
FPR. Status Completed

Project 17

Title Enhanced Brain Tumor Detection and Segmentation using Densely Connected Convolutional Networks with Stacking Ensemble Learning
Researches Asadullah Shaikh, Samina Amin, Muhammad Ali Zeb, Adel Sulaiman, Mana Saleh Al Reshan, and Hani Alshahrani
Grant No NU/EFP/SERC/13/157
Dates Jan 2024 to Jan 2025
FPR. Status Completed

Project 18

Title An improved Deep CNN-based Freshwater Fish Classification with Cascaded Bio-inspired Networks
Researches Asadullah Shaikh, Wahidur Rahman, Kaniz Roksana, Tarequl Islam, Mohammad Motiur Rahman, Hani Alshahrani, Adel Sulaiman, and Mana Saleh Al Reshan
Grant No NU/EFP/SERC/13/178
Dates Jan 2024 to Jan 2025
FPR. Status Completed

Publications

Published Patents

1. Adel Sulaiman, Abdullah Alghamdi, Hani Alshahrani, Sultan Alyami, Mana Saleh Al Reshan, Yousef Asiri, Mohammad Alsulami, Samar M. Alqhtani, and Mohammad Tabrez Quasim. **AI-Based System For Warning and Managing Operations of Vehicles at Higher Speeds.** U.S. Patent Application 18/081,836, Publication Number: 2023/0121366 A1, Publication Date April 20, 2023.
2. Hani Alshahrani, Yousef Asiri, Adel Sulaiman, Mohammed Hamdi, Asadullah Shaikh, and Mohammad Tabrez Quasim. **Artificial Intelligent based System For Customer Recommendation and Notification and its Process Thereof.** U.S. Patent Application 18/067,169, Publication Number: 2023/0124147 A1, Publication Date April 20, 2023.
3. Alghamdi, Abdullah, Asadullah Shaikh, Mohammad Tabrez Quasim, Mesfer Alrizq, Surbhi Bhatia, Al Reshan, Mana Saleh, and Shadab Alam. **Emotion Recognition and Notification System** U.S. Patent Application 17/809,428, Publication Number: 2022/0335752 A1, Publication Date October 20, 2022.

Published and Accepted Papers

Cumulative Impact Factor (CIF): **424.42**

Year 2025

1. Muhammad Shazma Tahseen, Muhammad Ali Memon, Mana Saleh Al Reshan, Adel Sulaiman, Kamran Taj Pathan, M. A. Elmagzoub, Shah Muhammad Kamran, Asadullah Shaikh. **Machine Learning Augments Rule-Based Knowledge: A Precision Leap for Contextual Early Breast Cancer Detection.** Accepted in AIP Advances. Impact Factor: 1.4, 2025.
2. Muhammad Owais Raza, Naeem Ahmed Mahoto, Mana Saleh Al Reshan, Ali Alqazzaz, Adel Rajab, and Asadullah Shaikh. **Drought Detection in Satellite Imagery: A Layered Ensemble Machine Learning Approach.** International Journal of Computational Intelligence Systems 18, 161 (2025). <https://doi.org/10.1007/s44196-025-00903-7x>. Impact Factor: 3.0, 2025.
3. Nasreen Anjum, Hani Alshahrani, Darakhshan Syed, Asadullah Shaikh, and Mahreen-ul-Hassan. **Next Generation Sequencing under Attack: Investigating Insider Threats and Organizational Behavior.** Accepted PeerJ Computer Science. Impact Factor: 3.8, 2025.
4. Anam Memon, Ali Asghar Manjotho, Qasim Ali Arain, Adel Sulaiman, Nasrullah Pirzada, Mana Saleh Al Reshand, Mohammad Alsulami, Asadullah Shaikhd. **Lightweight CNN-Based Head Pose Estimation Using Heatmaps and Anthropometric Facial Measures.** Accepted in ICT Express. Impact Factor: 4.1, 2025.
5. Adel Rajab, M. Umar Khan, and Asadullah Shaikh. **Next-Generation Network Planning: Machine Learning (ML) Meets Real-World Mobile Data.** Accepted in 20th Iberian Conference on Information Systems and Technologies, June 16-19, 2025. Lisbon, Portugal.
6. Abdul Rehman, Kamran Ahmad Awan, Mehmood Ul Hassan, Asadullah Shaikh, Ali Alqazzaz, and Korhan Cengiz. **CLAF-IoT: Context-Aware LLMs-Enhanced Authentication Framework for Internet of Things.** IEEE Internet of Things Journal, vol. 12, no. 14, pp. 28639-28646, 15 July15, 2025, doi: 10.1109/JIOT.2025.3567634. Impact Factor: 8.7, 2025.
7. Mana Saleh Al Reshan; Muhammad Owais Raza; Naeem Ahmed Mahoto; Adel Rajab; Asadullah Shaikh; M. A. Elmagzoub. **Towards Drought Modeling in South Asia: Machine Learning Approaches, Challenges and Opportunities.** IEEE Access, vol. 13, pp. 87654-87671, 2025. doi: 110.1109/ACCESS.2025.3567257. Impact Factor: 3.4, 2025.
8. Mana Saleh Al Reshan, Samina Amin, Muhammad Ali Zeb, Adel Sulaiman, Asadullah Shaikh, Hani Alshahrani, and Khairan Rajab. **Advanced Breast Cancer Prediction Using Deep Neural Networks Integrated with Ensemble Models.** Chemometrics and Intelligent Laboratory Systems 105399, <https://doi.org/10.1371/journal.pone.0312520> . Impact Factor: 3.7, 2025.
9. Ali Alqazzaz, Zunaira Anwar, Mahmood ul Hassan, Shahnawaz Qureshi, Mohammad Alsulami, Ali Zia, Sultan Alyami, Syed Muhammad Zeeshan Iqbal, Sajid Anwar, Asadullah Shaikh. **Genre-Aware User Profiling using Duration Count Matrices: A Novel Approach to Enhancing Content Recommendation Systems.** PLOS ONE 20(4): e0312520. Impact Factor: 3.7, 2025.
10. Nasreen Anjum, Hani Alshahrani, Asadullah Shaikh, Mahreen-ul-Hassan, Mehreen Kiran, and Shah Raz. **Cyber-Biosecurity Challenges in Next-Generation Sequencing: A Comprehensive**

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Analysis of Emerging Threat Vectors. IEEE Access, vol. 13, pp. 52006 - 52035, 2025. doi: 10.1109/ACCESS.2025.3552069. Impact Factor: 2.5, 2025.

11. Muhammad Umar Rashid, Shah Nawaz Qureshi, Abdullah Abid, Saad Said Alqahtany, Ali Alqazzaz, Mahmood ul Hassan, Mana Saleh Al Reshan and Asadullah Shaikh. **Hybrid Android Malware Detection and Classification Using Deep Neural Networks.** International Journal of Computational Intelligence Systems 18, 52 (2025). <https://doi.org/10.1007/s44196-025-00783-x>. Impact Factor: 2.5, 2025.
12. Asadullah Shaikh, Wahidur Rahman, Kaniz Roksana, Tarequl Islam, Mohammad Motiur Rahman, Hani Alshahrani, Adel Sulaiman, and Mana Saleh Al Reshan. **An improved Deep CNN-based Freshwater Fish Classification with Cascaded Bio-inspired Networks.** Automatika, 66(2), 249–280. <https://doi.org/10.1080/00051144.2025.2457803>. Impact Factor: 1.7, 2025.
13. Asadullah Shaikh, Darakhshan Syed, Mana Saleh Al Reshan, Samar M. Alqhtani. **Intelligent sensors for smart healthcare.** Advanced Sensors for Smart Healthcare, Elsevier, 2025, Pages 347-361, ISBN 9780443247903, <https://doi.org/10.1016/B978-0-443-24790-3.00022-3>.
14. Fayaz Hassan, Zafi Sherhan Syed, Aftab Ahmed Memon, Saad Said Alqahtany, Nadeem Ahmed, Mana Saleh Al Reshan, Yousef Asiri, Asadullah Shaikh. **A Hybrid Approach for Intrusion Detection in Vehicular Networks using Feature Selection and Dimensionality Reduction with Optimized Deep Learning.** PLOS ONE 20(2): e0312752. <https://doi.org/10.1371/journal.pone.0312752>. Impact Factor: 3.7, 2025.
15. Asadullah Shaikh, Samina Amin, Muhammad Ali Zeb, Adel Sulaiman, Mana Saleh Al Reshan, Hani Alshahrani. **Enhanced Brain Tumor Detection and Segmentation using Densely Connected Convolutional Networks with Stacking Ensemble Learning.** Computers in Biology and Medicine, Volume 186 (2025) 109703, pp. 1-22, <https://doi.org/10.1016/j.compbiomed.2025.109703>. Impact Factor: 7.0, 2025.
16. Asma Nadeem, Malik Muhammad Saad Missen, Mana Saleh Al Reshan, Muhammad Ali Memon, Yousef Asiri, Muhammad Ali Nizamani, Mohammad Alsulami, and Asadullah Shaikh. **Resolving Ambiguity in Natural Language for Enhancement of Aspect-Based Sentiment Analysis of Hotel Reviews.** PeerJ Computer Science 11:e2635 <https://doi.org/10.7717/peerj-cs.2635>. Impact Factor: 3.8, 2025.
17. Saad Said Alqahtany, Asadullah Shaikh and Ali Alqazzaz . **Enhanced Grey Wolf Optimization (EGWO) and Random Forest based Mechanism for Intrusion Detection in IoT Networks.** PeerJ Computer Science 11:e2635 <https://doi.org/10.7717/peerj-cs.2635>. Impact Factor: 3.8, 2025.

Year 2024

18. Jothi Ganesan, Ahmad Taher Azar, Nashwa Ahmad Kamal, Asadullah Shaikh. **The AI Revolution: Deep Learning's Role in Abdominal Trauma Detection.** In: Hassanien, A.E., Darwish, A., F. Tolba, M., Snasel, V. (eds) Proceedings of the 10th International Conference on Advanced Intelligent Systems and Informatics 2024. AISI 2024. Lecture Notes on Data Engineering and Communications Technologies, vol 220. Springer, Cham. https://doi.org/10.1007/978-3-031-71619-5_26.

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19. Anam Memon, Qasim Arain, Nasrullah Pirzada, Akram Shaikh, Adel Sulaiman, Mana Saleh Al Reshang, Hani Alshahrani, Asadullah Shaikh. **Prior-Free 3D Human Pose Estimation in a video using Limb-Vectors**. ICT Express, Volume 10, Issue 6, Pages 1266-1272, ISSN 2405-9595, <https://doi.org/10.1016/j.ict.2024.09.015>. Impact Factor: 4.1, 2024.
20. Adel Sulaiman, Vatsala Anand, Sheifali Gupta, Adel Rajab, Hani Alshahrani, Mana Saleh Al Reshan, Asadullah Shaikh, and Mohammed Hamdi. **Attention based UNet Model for Breast Cancer Segmentation using BUSI Dataset**. Scientific Reports 14, 22422 (2024). <https://doi.org/10.1038/s41598-024-72712-5>. Impact Factor, 3.8, 2024.
21. Muhammad Mujtaba Asad, Aqsa Naz, Asadullah Shaikh, Mesfer Alrizq, Muhammad Akram, and Abdullah Alghamdi. **Investigating the Impact of IoT - Based Smart Laboratories on Students' Academic Performance in Higher Education**. Universal Access in the Information Society, vol. 23, pp. 1135–1149. <https://doi.org/10.1007/s10209-022-00944-1>. ISI Thomson Reuters, Impact Factor, 2.629, 2024.
22. Sohrab Khan, Sheharyar Khan, Adel Sulaiman, Mana Saleh Al Reshan, Hani Alshahrani, and Asadullah Shaikh. **Deep neural network and trust management approach to secure smart transportation data in sustainable smart cities**. ICT Express, Volume 10, Issue 5, Pages 1059-1065, ISSN 2405-9595, <https://doi.org/10.1016/j.ict.2024.08.006>. Impact Factor: 4.1, 2024
23. Mana Saleh Al Reshan, Samina Amin, Muhammad Ali Zeb, Adel Sulaiman, Hani Alshahrani, Asadullah Shaikh and M. A. Elmagzoub. **An Innovative Ensemble Deep Learning Clinical Decision Support System for Diabetes Prediction**. Accepted in IEEE Access. Impact Factor: 3.9, 2024.
24. Rejuwan Shamim and Asadullah Shaikh. **Harnessing the Power of Hugging Face's Multilingual Transformers: Unraveling the Code-Mixed Named Entity Recognition Enigma**. International Journal of Intelligent Engineering Informatics, vol. 12, No. 3, pp 353-376 <https://doi.org/10.1504/IJIEI.2024>. Impact Factor (ESCI), 6.3, 2024.
25. Hani Alshahrani, Mohd Anjum, Sana Shahab, Mana Saleh Al Reshan, Adel Sulaiman and Asadullah Shaikh. **Analyzing anonymous activities using Interrupt-aware Anonymous User-System Detection Method (IAU-S-DM) in IoT**. Scientific Reports 14, 18075 (2024). <https://doi.org/10.1038/s41598-024-67956-0>. Impact Factor, 3.8, 2024.
26. Asadullah Shaikh, Abdullah Alghamdi, Qing Tan, Ibrahim M. M. El Emary. **Advances in Emerging Information and Communication Technology**. Signals and Communication Technology, <https://doi.org/10.1007/978-3-031-53237-5>. ISBN: 978-3-031-53236-8 and Series E-ISSN: 1860-4870, Springer Cham.
27. Muhammad Owais Raza, Areej Fatemah Meghji, Naeem Ahmed Mahoto, Mana Saleh Al Reshan, Hamad Ali Abosaq, Adel Sulaiman and Asadullah Shaikh. **Reading between the Lines: Machine Learning Ensemble and Deep Learning for Implied Threat Detection in Textual Data**. International Journal of Computational Intelligence Systems 7, 183 (2024). <https://doi.org/10.1007/s44196-024-00580-y>. Impact Factor: 2.9, 2024.
28. M.A.Elmagzoub, Swapandeeep Kaur, Sheifali Gupta, Adel Rajab, Khairan Rajab, Mana Saleh Al Reshan, Hani Alshahrani, and Asadullah Shaikh. **Improving Endoscopic Image Analysis:**

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Attention Mechanism Integration in Grid Search Fine-tuned Transfer Learning Model for Multi-class Gastrointestinal Disease Classification. IEEE Access, vol. 12, pp. 80345-80358, 2024, doi: 10.1109/ACCESS.2024.3408224. Impact Factor: 3.9, 2024.

29. M.A. Elmagzoub, Wahidur Rahman, Kaniz Roksana, Md. Tarequl Islam, A H M Saifullah Sadi, Mohammad Motiur Rahman, Adel Rajab, Khairan Rajab, Asadullah Shaikh. **Paddy Insect Identification using Deep Features with Lion Optimization Algorithm.** Heliyon, volume 10, Issue 12, pp. E32400, <https://doi.org/10.1016/j.heliyon.2024.e32400>. Impact Factor, 4.0, 2024
30. Mahdi Falah Mahdi Alyami, Meenu Garg, Vatsala Anand, Sheifali Gupta, Mana Saleh Al Reshan, Saleh Hamad Sajaan Almansour, Shoug Salem Hasan Alyami, Asadullah Shaikh. **An Intelligent Ensembling of Fine-Tuned Transfer Learning-Based Model for Cataract Diagnosis from Fundus Images.** International Journal of Engineering Trends and Technology, vol. 72, no. 5, pp. 120-130, 2024. Crossref, <https://doi.org/10.14445/22315381/IJETT-V72I5P113>
31. Kanwarpartap Singh Gill, Rupesh Gupta, Rahul Chauhan, Srinivas Aluvala, Adel Sulaiman,, Hani Alshahrani, Mala Saleh Al Reshan and Asadullah Shaikh. **Utilization of DenseNet201, EfficientNetB3, Resnet50, and VGG19 as Pre-Trained Convolutional Neural Network Models for Brain Tumour Classification.** Accepted in International Symposium on Computer Science, Computer Engineering and Educational technology (ISCSET 2024) from 17th to 19th July, 2024 in Laubusch, Germany.
32. Kanwarpartap Singh Gill, Rahul Chauhan, Bura Vijay Kumar, Rupesh Gupta, Mana Saleh Al Reshan, Adel Sulaiman, Hani Alshahrani and Asadullah Shaikh. **EfficientNetB7-Based Deep Learning for Accurate Cardiomegaly Disease Prediction from Chest X-ray Images: A Comprehensive Study on Early Detection and Diagnostic Precision.** Accepted in 30th ICE IEEE/ITMC Conference (ICE 2024), 24-28 June 2024, Estrada Monumental 175-177, Funchal 9000-100, Madeira, Portugal.
33. Neha Sharma, Sheifali Gupta, Deepali Gupta, Punit Gupta, Sapna Juneja, Asadullah Shah, and Asadullah Shaikh. **Proposed UMobileNetV2 Model for Semantic Segmentation of Gastrointestinal Tract in MRI Scans.** PLoS ONE 19(5): e0302880. <https://doi.org/10.1371/journal.pone.0302880>. Impact Factor: 3.7, 2024.
34. Qurat-ul-Ain Mastoi, Ali Alqahtani, Sultan Almakdi, Adel Sulaiman, Adel Rajab, Asadullah Shaikh and Samar M. Alqhtani. **Heart Patient Health Monitoring System using Invasive and Non-invasive Measurement.** Scientific Reports 14, 9614 (2024). <https://doi.org/10.1038/s41598-024-60500-0>. Impact Factor, 4.6, 2024.
35. Kanwarpartap Singh Gill, Rahul Chauhan, Nagendar Yamsani, Rupesh Gupta, Hani Alshahrani, Adel Sulaiman, Mana Saleh Al Reshan, and Asadullah Shaikh. **Advancements in Histopathologic Cancer Detection: A Deep Learning Odyssey.** 2024 4th Interdisciplinary Conference on Electrics and Computer (INTCEC), Chicago, IL, USA, 2024, pp. 1-5, doi: 10.1109/INTCEC61833.2024.10603337.
36. Fazeel Abid, Jawad Rasheed, Mohammed Hamdi, Hani Alshahrani, Mana Saleh Al Reshan, and Asadullah Shaikh. **Sentiment Analysis in Social Internet of Things Using Contextual Representations and Dilated Convolution Neural Network.** Neural Computing and Applications. <https://doi.org/10.1007/s00521-024-09771-2>. Impact Factor: 6.0, 2024.

37. Faheem Ahmed, Muhammad Ali Memon, Khairan Rajab, Hani Alshahrani, Mohamed Elmagzoub Abdalla, Adel Rajab, Raymond Houe, and Asadullah Shaikh. **Demand prediction for urban air mobility using deep learning**. PeerJ Computer Science 10:e1946 <https://doi.org/10.7717/peerj-cs.1946>. Impact Factor: 3.8, 2023.
38. Shumaila Hussain, Muhammad Nadeem, Junaid Baber, Mohammed Hamdi, Adel Rajab, Mana Saleh Al Reshan, Asadullah Shaikh. **Vulnerability Detection in Java Source Code using a Quantum Convolutional Neural network with Self-attentive Pooling, Deep Sequence, and Graph-based Hybrid Feature Extraction**. Scientific Reports 14, 7406 (2024). <https://doi.org/10.1038/s41598-024-56871-z>. Impact Factor, 4.6, 2024.
39. C. Atheeq, Zameer Gulzar, Mana Saleh Al Reshan, Hani Alshahrani, Adel Sulaiman, Asadullah Shaikh. **Securing UAV Networks : A Lightweight Chaotic-Frequency Hopping Approach to Counter Jamming Attacks**. IEEE Access, vol. 12, pp. 38685-38699, 2024, doi: 10.1109/ACCESS.2024.3375343. Impact Factor, 3.9, 2024.
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213. Asadullah Shaikh, Sheeraz Ali, Nasrullah Memon, and Panagiotis Karampelas. **SOA security aspects in web-based architectural design.** In From Sociology to Computing in Social Networks by Springer, pages 415-430. 2010.
214. Asadullah Shaikh, Sheeraz Ali, Muniba Shaikh, and Javed Ahmed. **The Model-Driven Architecture in an Industrial Environment.** In IEEE International Conference on Information and Emerging Technologies (ICIET), pages 1-5. 2010.
215. Asadullah Shaikh, Robert Clarisó, Uffe Kock Wiil, and Nasrullah Memon. **Verification-driven slicing of UML/OCL models.** In ACM Automated Software Engineering, pages 185-194, 2010. Acceptance ratio: 18 percent.

Year 2009

216. Asadullah Shaikh, Ashfaq Ahmed, Nasrullah Memon, and Muniba Shoukat Memon. **Strengths and weaknesses of maturity driven process improvement effort.** In CISIS IEEE Computer Society, pages 481-486, 2009.
217. Asadullah Shaikh, Muniba Shoukat Memon, Nasrullah Memon, and Muhammad Misbahuddin. **The role of service oriented architecture in telemedicine healthcare system.** In CISIS IEEE Computer Society, pages 208-214, 2009.
218. Asadullah Shaikh, Aijaz Soomro, Sheeraz Ali, and Nasrullah Memon. **The Security Aspects in Web-Based Architectural Design Using Service Oriented Architecture.** In IV IEEE Computer Society, pages 461-466, 2009.

Year 2008

219. Asadullah Shaikh, Muhammad Misbahuddin, and Muniba Shoukat Memon. **A system design for a telemedicine health care system.** In IMTIC Springer CCIS Series, pages 295-305, 2008.
220. Muniba Shaikh and Asadullah Shaikh. **The role of model driven architecture in online web-based admission system.** In 8th National Research Conference (NRS) proceedings Szabist Islamabad, 2008.

Scholar Profiles

Google Scholar Profile <https://scholar.google.com/citations?user=z4CxxgIEAAAAJ&hl=en&oi=ao>

Publons Profile <https://publons.com/researcher/2176227/asadullah-shaikh>

DBLP Indexing <https://dblp.uni-trier.de/pers/hd/s/ShaiKh:Asadullah>

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ORCID <https://orcid.org/0000-0003-4806-6159>

Student Supervision

Past PhD Co-Supervision

Student Name	Syed Samiullah Shah
PhD Thesis Title	Social Media Based News Control Authentication Assessment through Qualitative Measurements
University	Department of Software Engineering, Mehran University of Engineering & Technology, Jamshoro
Tenure	January 2024–Current
Student Name	Abid Ghaffar
PhD Thesis Title	Generating Alerts using Context-aware Security and Brahms Model for Customer Service Improvement
University	International Islamic University Malaysia
Tenure	January 2012–February 2017

Master Supervision

Students Name	Mohammed Almansour, Ahmed Alosaimi, Faisal Alahmari, Mohammed Alsharif, Fahad Alshariah,
Thesis Title	A System Review of Cyber Security Risks in Healthcare
University	Najran University
Tenure	Jan 2023–May 2023

Undergraduate Supervision

Students Name	Abdul Aziz, Huassein Abdullah, and Mohammed Bin Yousef
Thesis Title	Automatic Attendance Systems
University	Najran University
Tenure	March 2023–June 2023
Students Name	Taghreed Abdullah Abusaq, Noha Hussain Alshermah, Sana Ahmed Alqahtani, and Afnan Ahmed Alshareef
Thesis Title	Go4Charity
University	Najran University
Tenure	October 2022–February 2023
Students Name	Musaed Lashram Al-harthy and Abdullrahman Ahmad Alharthy

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Thesis Title Professional Instant Messenger

University Najran University

Tenure January 2014–September 2014

Students Mohammed Abdullah Mahdi Abu Mudayni, Mohammad Mesfer Ali Al-Zaid, and
Name Abdulaziz Ali Masoud Al Hajry

Thesis Title Hospital Management Information System(HMIS)

University Najran University

Tenure September 2014–January 2015

Students Ali Ahmed S Qaisi, and Ahwi Hussen Abdullah
Name

Thesis Title Grab a Taxi

University Najran University Malaysia

Tenure January 2017–June 2017

Books Editorship

Book Title **The 2nd International Conference on Innovation of Emerging Information and Communication Technology**

Series E-ISSN:1860-4862: Thirty two chapters, published by Springer Cham under Signals and Communication Technology, Germany

Book Title **Strategic Innovations of AI and ML for E-Commerce Data Security**

Series E-ISBN: 9798369357187 Fifteen chapters, IGI Global, 2025.
<https://doi.org/10.4018/979-8-3693-5718-7>

Book Title **Advances in Emerging Information and Communication Technology**

Series Thirty One chapters, published by Springer Cham under Signals and Communication
E-ISSN:1860- Technology, Germany
4870

Book Title **Introduction to Computer System and application**

Five chapters, published by International Islamic University (IIUM) Kuala Lumpur, Malaysia

Book Title **C++ Programming Step-by-Step**

Five chapters, published by International Islamic University (IIUM) Kuala Lumpur, Malaysia

Book Title **Understanding Basic Concept of Electrical and Electronic System**

Five chapters, published by International Islamic University (IIUM) Kuala Lumpur, Malaysia

Book Title **Statistical Time Division Multiplexer Architectures and Design**

Five chapters, published by International Islamic University (IIUM) Kuala Lumpur, Malaysia

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Compiled Books in L^AT_EX

Book Title **From Sociology to Computing in Social Networks - Theory, Foundations and Applications**

Uffe Kock Wiil, Editor. Counterterrorism and Open Source Intelligence, volume 2 of Lecture Notes in Social Networks. Springer, 2011.

Book Title **Counterterrorism and Open Source Intelligence**

Nasrullah Memon and Reda Alhajj, Editors. From Sociology to Social Networks Theory, Foundations and Applications, volume 1 of Lecture Notes in Social Networks Springer, 2010.

Professional Activities

Keynote Speeches

Methods and Efficient Verification of UML/OCL Models ITRESL Research Lab 3rd Annual Symposium July 12-13, 2024, AU Campus, Athabasca, AB Canada.

How to Publish Quality Journal Papers and Improve Citations International E-Conference on Recent Advances in Computer Science and Information Technology (RACSIT2024), March 05-06, 2024, University of Education, Lahore, Pakistan

Smart Bin for Waste Management and Smart Charity for Civilized Community International E-Conference on Recent Advances in Computer Science and Information Technology (RACSIT2020), September 24-25, 2020, Lahore, Pakistan

Tele-COVID A Telemedicine Architectural Design for COVID 19 Patients using SOA 10th International Virtual Conference on Emerging Trends & Technology in Computing And Software Engineering-2021 (IVCETTCSE-2021), May 21-22, 2021, Karachi, Pakistan

Professional Memberships

- **Membership No: 94167301:** IEEE Senior Member.
- **Membership No: 94167301:** IEEE Computer Society Technical Committee on Semantic

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Computing.

- **Membership No: 94167301:** IEEE Technical Council on Software Engineering (TCSE).
- **No.PEC/REGN/AMIE/2013:** Pakistan Engineering Council, Islamabad, Pakistan.
- **MCS A170/1100540387:** Institution of Engineering and Technology (IET) with designatory letters MIET, Stevenage, SG1 2AY, United Kingdom.
- **TCSE 94167301:** The IEEE Computer Society Technical Council on Software Engineering (TCSE.)

International Advisory Board

Membership of the International Advisory Board of ICCMIT'20 conference will be held in Athens, Greece on 1-3 April 2020.

Editor and Academic Editor

- Associate Editor IEEE Access. Impact Factor 3.9 [E-ISSN 2169-3536]
- Associate Editor International Journal of Service Science, Management, Engineering, and Technology (IJSSMET). Scopus Indexed [E-ISSN 1947-9603]
- Academic Editor PLOS ONE. Impact Factor 3.752 [E-ISSN 1932-6203]
- Academic Editor Journal of Healthcare Engineering (JHE) By Hindawi. Impact Factor 2.6 [E-ISSN 2040-2309]
- Editor - in - Chief International Journal of Advanced Computer Systems and Software Engineering By Scientific Academia, Malaysia. IJACSSE [E-ISSN 2716-5256]

Guest Editor of Special Issues

- Guest Editor: Special Issue on **Artificial Intelligence Emerging Trends and Sustainable Applications in Image Processing and Computer Vision**. Computer Modeling in Engineering and Sciences, Science Citation Index Expanded (SCIE), Impact Factor 2.4. Due Date is July 31, 2024.
- Guest Editor: Special Issue on **Secure Communication for Intelligent Transportation Systems in Vehicular Social Networks**. Applied Sciences By MPDI, Science Citation Index Expanded (SCIE), Impact Factor 2.838. Due Date is April 26, 2023.
- Lead Guest Editor: Special Issue on **Recent Trends and Applications of Smart Systems for Cyber-Security**. Electronics By MPDI, Science Citation Index Expanded (SCIE), Impact Factor 2.699. Due Date is May 20, 2023.
- Guest Editor: Special Issue on **Artificial Intelligence of Things and Next Generation Networking**. CJournal of Sensor and Actuator Networks, Scopus and ESCI Indexed. Due Date is March 31, 2023.
- Guest Editor: Special Issue on **Advanced Artificial Intelligence and Machine Learning in Electronic Healthcare**. Computer Systems Science and Engineering journal By Tech Science Press, Science Citation Index Expanded (SCIE), Impact Factor 1.486. Due Date is September 30, 2022.

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- Guest Editor Special Issue on **Artificial Intelligence for Cyber Security**. Computer Systems Science and Engineering journal By Tech Science Press, Science Citation Index Expanded (SCIE), Impact Factor 1.486. Due Date is December 15, 2022.
- Guest Editor Special Issue on **Data Science for the Internet of Things**. Computers, Materials and Continua By Tech Science Press, Science Citation Index Expanded (SCIE), Impact Factor 3.772. Due Date is October 30, 2022.
- Guest Editor Special Issue on **Towards Sustainable Online Learning Systems in Future Era**. Frontiers in Psychology Educational Psychology, Science Citation Index Expanded (SCIE), Impact Factor 2.99. Due Date is October 31, 2022.
- Guest Editor Special Issue on **The Emergence of Blockchain Technologies in the Internet of Things (IoT)**. Computers, Materials and Continua By Tech Science Press, Science Citation Index Expanded (SCIE), Impact Factor 3.772. Due Date is July 15, 2022.
- Panel Chair SEMIT 2022 **International Conference on Science, Engineering and Management and Information Technology**. February 2-3 2022, Ankara, Turkey. Due Date is January 01, 2022.
- Guest Editor Special Issue on **Data Analytics for Business Intelligence: Trends and Applications**. Intelligent Automation & Soft Computing By Tech Science Press, Science Citation Index Expanded (SCIE), Impact Factor 1.647. Due Date is March 15, 2022.
- Guest Editor Special Issue on **Social Networks Analysis and Knowledge Management**. Computers, Materials and Continua By Tech Science Press, Science Citation Index Expanded (SCIE), Impact Factor 3.772. Due Date is December 31, 2021.
- Lead Guest Editor Special Issue on **Recent Trends and Applications of Blockchain and IoT technologies to combat COVID-19**. Applied Sciences By MPDI, Science Citation Index Expanded (SCIE), Impact Factor 2.474. Due Date is December 20, 2021.
- Guest Editor Special Issue on **Recent Trends in Software Engineering and Applications**. Computer Systems Science and Engineering By Tech Science Press, Science Citation Index Expanded (SCIE), Impact Factor 1.486. Due Date is October 30, 2021.
- Lead Guest Editor Special Issue on **Impact of Current Trends in Social Commerce, Economics, and Business Analytics**. Estudios de Economia Aplicada. Scopus and ESCI Indexed. Scopus Indexed and ESCI Indexed. Due Date is June 30, 2021. Published Volume. 39 No. 7 (2021).
- Guest Editor Special Issue on **Recent Techniques and Trends of Information Retrieval Research**. International Journal of Information Retrieval Research (IJIRR), by IGI Global. Scopus Indexed and ESCI Indexed. Due Date is July 30, 2021.
- Lead Guest Editor Special Issue on **The Impact of New Information Systems, Applications and Software Development on Project Knowledge Management (PKM)**. International Journal of Information Technology Project Management (IJITPM), by IGI Global. Scopus Indexed and ESCI Indexed. Due Date is July 15, 2021.
- Lead Guest Editor Special Issue on **The Recent Economic Trends and their Impact on Marketing**. Estudios de Economia Aplicada. Scopus and ESCI Indexed. Due Date is November 05, 2020. Published Volume 38 No. 1 (2020).

- Lead Guest Editor Special Issue on **Impact of Current Trends in Social Commerce, Big data, and Business Analytics**. International Journal of Information Technology Project Management (IJITPM). Scopus Indexed. Due Date is April 15, 2020.
- Lead Guest Editor Special Issue on **Trends and Applications of Data Science and Big Knowledge**. International Journal of Data Science (IJDs) By Inderscience. Due Date is May 15, 2020. Published Volume 5 No. 2 (2020).
- Lead Guest Editor Special Issue on **Advances in System Dynamics, Simulation, and Machine Learning Techniques**. International Journal of System Dynamics Applications (IJSDA) By IGI Global. ESCI Indexed (Web of Science). Due Date is November 31, 2020.
- Lead Guest Editor Special Issue on **New Frontiers in Data Sciences and Data Analytics Tools and Applications**. Advances in Data Science and Adaptive Analysis By World Scientific. ESCI Indexed (Web of Science). Published Volume 12, Issue 2, May 2020.
- Lead Guest Editor Special Issue on **Recent Information Communication Technologies (ICT) Trends for Scalable Information System Applications**. International Journal of Intelligent Engineering Informatics By Inderscience. ESCI Indexed (Web of Science). This Special Issue is reserved for ICCMIT 2020, Athens, Greece. Due Date is September 30, 2020.
- Lead Guest Editor Special Issue on **IoT, Smart Environments and Interdisciplinary Applications for Technology Management and Sustainable Development**. International Journal of Technology Management & Sustainable Development by Intellect, United Kingdom. Scopus Indexed. Due Date is September 30, 2020. Published Volume 19 No. 3 (2020).
- Lead Guest Editor Special Issue on **Impact of Integrated Intelligent Information and Analytical Systems on Society**. Journal of Information Technology Management (JITM). Scopus Indexed. Due Date is February 15, 2020. Published Volume 12 No. 3 (2020).
- Lead Guest Editor Special Issue on **Advances in Deep Learning in Mobile Interactive Algorithms and Learning Technologies**. International Journal of Interactive Mobile Technologies (IJIM), Scopus Indexed. Published Vol 14, No 10, June 30, 2020.
- Lead Guest Editor Special Issue on **Evaluating Critical Measures of Quality Management And Quality Control**. International Journal of Quality Research (IJQR), ESCI and Scopus Indexed. Due Date is Feb 15, 2020. Published Volume 14 No. 4 (2020).
- Lead Guest Editor Special Issue on **Computer Software, and Secure Methods (CSSyM)**, International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE), Scopus Indexed. Published Volume 8 No. 1.3 (2019) S I.
- Lead Guest Editor Special Issue on **Computer System, and Software Modeling (CSSyM)**, Indian Journal of Science and Technology, ISI Web of Science. Published Volume 12, Issue 31, August 2019.

Guest Editor Special issue for 4th **International Conference on Communication, Management and Information Technology (ICCMIT 2017)**, International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE), Scopus Indexed. Published Volume 8 No. 1.1 (2019) S I.

Guest Editor Special Issue on the **Impact of Management of Information Communication Technology (MICT)** on Society, Indian Journal of Science and Technology, ISI Web of Science. Published Volume 12, Issue 18, May 2019.

Publication Chair and Session Chair

Publication Chair CANWEST International Research Congress 2024, Casablanca, Morocco. October 21-23, 2024

Steering Committee International Conference on Advancement In Computation and Computer Technologies 2023, Mohali, India. May 2-3, 2024

Publication Chair CANWEST International Research Congress 2023, Madrid, Spain. September 11-13, 2023

Publicity Chair European Symposium on Software Engineering 2022, Rome, Italy. October 27-29, 2022

Publicity Chair International Conference on Artificial Intelligence of Things 2022, Istanbul, Turkey. December 29-30, 2022

Publication Chair USAR Series of Conferences 2022, Athens, Greece. September 19-23, 2022

Publication Chair USAR Series of Conferences 2021, Athens, Greece. September 20-24, 2021

Publication Chair Global Research Conferences (GRaCe) 2020, Kuala Terengganu, Malaysia. October 16-18, 2020

Publication Chair USAR Series of Conferences 2020, Athens, Greece. September 14-17, 2020

Session Chair and Publication Chair 5th International Conference on Communication, Management and Information Technology (ICCMIT 2019), Vienna, Austria.

Editorial Board (International)

Editorial Board Member Journal of Advances in Artificial Intelligence (JAAI), Singapore

Editorial Board Member Indian Journal of Science and Technology (INDJST).

Editorial Board Member International Journal of Interactive Mobile Technologies (IJIM). Online Journals Austria.

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Editorial Board Member International Journal of Online and Biomedical Engineering (iJOE). Online Journals Austria.

Editorial Board Member International Journal of Intelligent Engineering Informatics (IJIEI). Inderscience.

Editorial Board Member Artificial Intelligence Evolution By Universal Wiser Publisher, Singapore.

Editorial Board Member International Journal of Computing and Related Technologies (IJCRT). Sindh Madressatul Islam University (SMIU) Karachi, Pakistan

Editorial Board Member Pakistan Journal of Computer and Information Systems (PJCIS) by Pakistan Scientific and Technological Information Center (PASTIC).

Technical Program Committee for Conferences (Conf)

- Conference 1 IADIS International Conference (WWW/INTERNET 2009)
- Conference 2 IADIS International Conference (WWW/INTERNET 2010)
- Conference 3 IADIS International Conference (WWW/INTERNET 2012)
- Conference 4 IADIS International Conference (WWW/INTERNET 2013)
- Conference 5 The 8th International Conference on Internet and Web Applications and Services (ICIW 2013)
- Conference 6 The 5th International Conference on Advances in Future Internet (AFIN 2013)
- Conference 7 International Multi topic conference (IMTIC 2013) 18-20 December, 2013
- Conference 8 The 9th International Conference on Internet and Web Applications and Services (ICIW 2014)
- Conference 9 The 6th International Conference on Advances in Future Internet (AFIN 2014)
- Conference 10 The 10th International Conference on Emerging Technologies 2014 (ICET 2014)
- Conference 11 IADIS International Conference (WWW/INTERNET 2014)
- Conference 12 International Multi topic conference (IMTIC 2015) 18-20 December, 2015
- Conference 13 The 10th International Conference on Internet and Web Applications and Services (ICIW 2015)
- Conference 14 The 7th International Conference on Advances in Future Internet (AFIN 2015)
- Conference 15 1st International Workshop on Aspect Oriented Strategies for Domain Modelling (AOSDM16)
- Conference 16 1st International Conference on Computer and Electronics Engineering 2016 9-10 Jan, 2016 (ICCEE-2016)

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- Conference 17 The 8th International Conference on Advances in Future Internet (AFIN 2016) Nice, France
- Conference 18 IADIS International Conference (WWW/INTERNET 2015)
- Conference 19 The 11th International Conference on Internet and Web Applications and Service (ICIW 2016)
- Conference 20 2nd International Conference (WWW/INTERNET 2009)
- Conference 21 5th International Conference on Signal, Image Processing and Pattern Recognition (SPPR 2016)
- Conference 22 2nd International Conf on Communication & Information Processing (ICCIP 2016) Singapore)
- Conference 23 9th International Conf Computer Science and Information Technology (ICCSIT 2016) Ireland)
- Conference 24 2nd International Conference on Intelligent Information Processing, Security and Advanced Communication(IPAC'2016)Prague, Czech, Republic
- Conference 25 4th International Conference on Building and Exploring Web Based Environments (WEB 2016) Lisbon, Portugal
- Conference 26 2nd International Conference on Multimedia and Image Processing(ICMIP 2017) will be held in Wuhan, China
- Conference 27 International Conf on Communication, Computing and Digital Systems (CCODE 2017) Pakistan
- Conference 28 3rd International Conf on Communication & Information Processing (ICCIP 2017) Japan
- Conference 29 9th International Conference on Advances in Future Internet (AFIN 2017) Rome, Italy
- Conference 30 16th International Conference on WWW/Internet 2017, Algarve, Portugal
- Conference 31 2nd International Workshop on Signal Acquisition and Processing (ICSAP 2017) Qingdao, China
- Conference 32 14th th International Conference on Applied Computing , Portugal.
- Conference 33 International Conference on Internet and e-Business (ICIEB 2018), Singapore
- Conference 34 15th International Learning and Technology Conference (L&T 2018), Jeddah, KSA
- Conference 35 International Conference on Computing, Electronics & Communications Engineering 2018(ICCECE '18) University of Essex, Southend, UK
- Conference 36 10th International Conference on Advances in Future Internet (AFIN 2018) Venice, Italy

- Conference 37 International Conference on Emerging Technologies in Computing 2018(ICETiC '18)
London Metropolitan University, London, UK
- Conference 38 4th International Conf on Communication & Information Processing (ICCIP 2018)
China
- Conference 39 5th International Multi topic conference (IMTIC 2018) Jamshoro, Pakistan
- Conference 40 The 13th International Conference on Internet and Web Applications and Service
(ICIW 2018)
- Conference 41 3rd International Conference on E-Business and Internet (ICEBI 2019), Prague,
Czech Republic
- Conference 42 The 11th International Conference on Advances in Future Internet (AFIN 2019)
Nice, France
- Conference 43 2nd IEEE International Conference on Emerging Technologies in Computing 2019
(iCETiC '19), UK.
- Conference 44 International Conf on Communication, Computing and Digital Systems (CCODE
2019) Pakistan
- Conference 45 2nd International Conf on Computing and Big Data (ICCBD 2019), Taichung,
Taiwan.
- Conference 46 National Conference on Emerging Trends in Computing (NTETC'19), Pakistan
- Conference 47 The 14th International Conference on Internet and Web Applications and Service
(ICIW 2019, Italy)
- Conference 48 5th International Conference on Signal and Image Processing (SIGI-2019), Dubai
- Conference 49 International Conference on Computational Science and Engineering (ICCSE 2019),
Dubai
- Conference 50 5th International Conf on Communication & Information Processing (ICCIP 2019)
China
- Conference 51 Global 2020 Congress on Computer Engineering (GC-CompEng 2020), Athens,
Greece
- Conference 52 1st International Conf on Software Engineering (MIC-Software 2020) Athens, Greece.
- Conference 53 4th International Conference on Data Management, Analytics & Innovation (ICDMAI
2020), India
- Conference 54 4th International Conference on E-Business and Internet (ICEBI 2020), Singapore
- Conference 55 The 15th International Conference on Internet and Web Applications and Service
(ICIW 2020, Italy)
- Conference 56 6th International Conf on Communication & Information Processing (ICCIP 2020)
Tokyo, Japan

- Conference 3rd International Conf on Computing and Big Data (ICCBD 2020), Taichung,
57 Taiwan.
- Conference 3rd IEEE International Conference on Emerging Technologies in Computing 2020
58 (iCETiC '20), UK.
- Conference 5th International Conference on Communication, Image and Signal Processing
59 (CCISP 2020), China.
- Conference International Conference on Pattern Recognition and Intelligent Systems (PRIS
60 2020), Greece.
- Conference International Conference on Smart Transportation and Future Mobility (CSTFM
61 2020), Spain
- Conference IEEE International Conference on Computing, Networking, Telecommunications &
62 Engineering Sciences Applications (CoNTESA '20), UK.
- Conference The 12th International Conference on Advances in Future Internet (AFIN 2020)
63 Valencia, Spain
- Conference 5th International Conference on Data Management, Analytics & Innovation (ICDMAI
64 2021), India
- Conference International Conference on Pattern Recognition and Intelligent Systems (PRIS
65 2021), Thailand.
- Conference International Conference on Intelligent Vehicles (ICoIV 2021), China.
66
- Conference International Symposium on Connected and Autonomous Vehicles (SoCAV 2021),
67 Singapore.
- Conference 2nd International Conference on Internet and E-Business (ICIEB 2021), Barcelona,
68 Spain
- Conference 5th International Conference on E-Business and Internet (ICEBI 2021), Singapore
69
- Conference 4th International Conf on Computing and Big Data (ICCBD 2021), Wuhan, China.
70
- Conference 4th IEEE International Conference on Emerging Technologies in Computing 2020
71 (iCETiC '21), UK.
- Conference The 13th International Conference on Advances in Future Internet (AFIN 2021)
72 Athens, Greece
- Conference The 2nd European Symposium on Software Engineering (ESSE 2021) Larissa, Greece
73
- Conference The 20th IADIS International Conference (WWW/INTERNET 2021) Virtual Con-
74 ference.
- Conference International Symposium on Connected and Autonomous Vehicles (SoCAV 2022),
75 Macao China
- Conference 10th International Scientific Conference Computer Science, Sofia, Bulgaria.
76

- Conference 5th International Conf on Computing and Big Data (ICCBD 2021), Shanghai, China.
77
- Conference IEEE International Conference on Information Technologies (InfoTech 2022), Sofia,
78 Bulgaria
- Conference 5th International Conf on Computing, Electronics & Communications Engineering
79 (iCCECE '22), UK
- Conference Industrial Electronics and Intelligent System Conference (IEISC '23), China
80
- Conference International Conference on Information Communication and Software Engineering
81 (ICICSE '23), China
- Conference 22nd International Conference on WWW/Internet (ICWI 2023) Madeira Island,
82 Portugala
- Conference 9th International Conference on Communication and Information Processing, China
83
- Conference Advanced Network Technologies and Computational Intelligence (ICANTCI 2024),
84 India
- Conference 4th International Conference on Information Communication and Software Engi-
85 neering (ICICSE 2024), China

Other Miscellaneous Reviewing Activities

- Conference 1 10th ACIS International Conference on Software Engineering, Artificial Intelligence,
Networking and Parallel/Distributed Computing (SNPD 2009). May 27-29, 2009
- Conference 2 Advances in Social Networks Analysis and Mining (ASONAM 2009), July 20-22,
2009
- Conference 3 13th International Conference Information Visualization (IV09), 14 - 17 July 2009.
- Conference 4 The International Conference on Advanced Data Mining And Application (ADMA
2009)
- Conference 5 Advances in Social Networks Analysis and Mining (ASONAM 2010), August 9-11,
2010.
- Conference 6 The International Conference on Engineering and Meta-Engineering (ICEME 2010).
- Conference 7 International Conference on Information Systems (ICIS 2010), Dec 12-15, 2010.
- Conference 8 International Multi topic conference (IMTIC 2012), March 28-30, 2012

Journals Reviewing/Editorial Board

- Journal 1 Journal of Computer Methods and Programs in Biomedicine By Elsevier. Impact
Factor: 1.862
- Journal 2 International Journal of Advanced Computer Science and Applications (IJACSA).
Impact Factor: 1.32
- Journal 3 International Journal of Software Engineering and Knowledge Engineering (IJSEKE).
Impact Factor: 0.30
- Journal 4 Greener Journals

- Journal 5 Network Modeling Analysis in Health Informatics and Bioinformatics (NHIB) By Springer
- Journal 6 Sindh University Research Journal (SURJ) University of Sindh Jamshoro, HEC Recognized
- Journal 7 The Mehran University Research Journal of Engineering & Technology, HEC Recognized
- Journal 8 International Journals N&N Global Technology
- Journal 9 International Journal of Computing and Related Technologies (IJCRT). Sindh Madressatul Islam University (SMIU) Karachi, Pakistan
- Journal 10 International Journal of Intelligent Systems Technologies and Applications (IJISTA) by Inderscience Publishers.
- Journal 11 Pakistan Journal of Computer Science and Information Systems (PJCIS).
- Journal 12 Proceedings of the Pakistan Academy of Sciences.
- Journal 13 IEEE Access. Impact Factor: 4.098
- Journal 14 Journal of Ambient Intelligence and Humanized Computing. Impact Factor: 7.104.
- Journal 15 PLOS ONE. Impact Factor: 2.776.
- Journal 16 Human-centric Computing and Information Sciences By Springer. Impact Factor: 3.212.
- Journal 17 Recent Advances in Computer Science and Communications. Scopus Indexed
- Journal 18 Signa Vitae. Impact Factor: 0.338
- Journal 19 Expert Systems With Applications By Elsevier. Impact Factor: 6.954.
- Journal 20 Automated Software Engineering By Springer. Impact Factor: 1.273.
- Journal 21 Journal of Risk and Financial Management. ESCI Indexed.
- Journal 22 Electronics. Impact Factor: 2.397.
- Journal 23 Applied Sciences. Impact Factor: 2.679.
- Journal 24 Sensors. Impact Factor: 3.576.
- Journal 25 ACM Computing Surveys Review. Impact Factor: 10.282.
- Journal 26 Machine Learning and Knowledge Extraction. ESCI Indexed.
- Journal 27 Coatings. Impact Factor: 2.881.
- Journal 28 CAAI Transactions on Intelligence Technology. Impact Factor: 7.985.

Professional Training

- Nov 2011 Training Award on Self Assessment Report (SAR), Karachi, Pakistan
- Jan 2011 NetBeans' Training Award, Odense, Denmark
- Nov 2009 Effective Oral Presentations, Barcelona, Spain
- May 2009 Effective Written Documents, Barcelona, Spain

Events and Given Talks

- 27 December 2023 Skills to publish in a Scientific Journal.

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- 8 December 2021 Advances in \LaTeX Online Lecture.
- 20 November 2020 How to Publish Quality Journal Papers and Improve Citations? at Sindh Madressatul Islam University, Karachi, Pakistan.
- 04 November 2020 How to Publish Quality Journal Papers and Improve Citations? at Bahria University Lahore Campus, Pakistan.
- 14 October 2020 Tele-COVID A Telemedicine Architectural Design for COVID 19 Patients using SOA at Najran University Saudi Arabia.
- 30 October 2019 Advances in \LaTeX part 1 at Najran University Saudi Arabia.
- 9 September 2019 How to Apply for KACST Grant.
- 11 February 2019 How to Apply for Paid Summer School/Internship Abroad for Undergraduate Students.
- 31 October 2018 How to Find Postgraduate Studies
- 17 September 2018 How To Write and Apply NU Research Project at Najran University Saudi Arabia
- 23 April 2018 How Do I Find Impact Factor and Rank for a Journal and Increase Paper Citations at Najran University Saudi Arabia
- 20 March 2018 Effective CV Writing and Job Interview Tips at Najran University Saudi Arabia
- 20 March 2017 Verification of Complex Models through Model Slicing at Najran University Saudi Arabia
- 13 February 2017 How to Publish Quality Journal Papers at Najran University Saudi Arabia
- 13 December 2016 Effective CVs and Covering Letters at Najran University Saudi Arabia
- 09 November 2016 Writing an Effective Research Proposal For PhD and Projects using \LaTeX at Najran University Saudi Arabia
- 09 September 2015 Getting Started with \LaTeX at Najran University Saudi Arabia
- 27 April 2015 Workshop on Literature Study and Proposal Writing at Najran, University Saudi Arabia
- 20 April 2015 How to Find a Right Supervisor and Hunt for a PhD Position at Najran, University Saudi Arabia
- 12 February 2015 Tutorial Resource Person at International Multi-topic Conference (IMITC 2015), Jamshoro, Sindh, Pakistan
- 11 February 2015 Paper Presentation at International Multi-topic Conference (IMITC 2015), Jamshoro, Sindh, Pakistan

- 10 February 2014 Talk on How to Write a Good Research Paper at Najran, University Saudi Arabia
- 11 April 2013 Talk on Verification of Complex UML/OCL Diagrams at Umm al-Qura University Makkah Saudi Arabia
- 6 February 2013 PhD Defend Efficient Verification of Complex UML/OCL Diagrams at Faculty of Engineering University of Southern Denmark
- 11 November 2012 Paper Presentation at International Symposium on the Foundations of Software Engineering (FSE), Cary, North Carolina, USA
- 17 July 2012 Seminar Presentation on Verification of Complex UML/OCL Class diagram at International Islamic University Malaysia.
- 28 March 2012 Paper Presentation at International Multi-topic Conference (IMITC 2012), Jamshoro, Sindh, Pakistan
- 4 October 2010 Paper Presentation at 6th Workshop on System Analysis and Modelling (SAM 2010) Oslo, Norway
- 24 September 2010 Paper Presentation at IEEE/ACM ASE conference (ASE 2010) Antwerp Belgium
- 17 July 2009 Presentation at Information Visualisation (IV 2009) Barcelona

Taught Courses

Taught Masters Courses at Najran University

1. 502MACYR- IT Security and Auditing|(First Semester 2024/2025)|Theory|3 Credits
3
2. 502MACYR- Cryptography|(First Semester 2022/2023)|Theory|3 Credits
3
3. 599MACYR- Research Project|(Third Semester 2022/2023)|Theory|4 Credits
4
4. 502MACYR- Cryptography|(Second Semester 2021/2022)|Theory|3 Credits
3
5. 597PMIS-3 Research Methodology|(Second Semester 2021/2022)|Theory|3 Credits
6. 502MEIT-3 Project Management|(First Semester 2021/2022)|Theory|3 Credits

Taught Bechlors Courses at Najran University

1. 571CIS-2 Project 1—Go4Charity| Second Semester 2023/2024)|Theory|2 Credits
2. 444CIS-3 Human Computer Interaction|(Second Semester 2023/2024)|Theory|3 Credits
3. 470CIS-3 Information System Ethics| Second Semester 2023/2024) | Theory (Male) | 3 Credits
4. 444CIS-3 Human Computer Interaction|(First Semester 2023/2024)|Theory|3 Credits
5. 470CIS-3 Information System Ethics| First Semester 2023/2024) | Theory (Male) | 3 Credits

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6. 572CIS-2 Project 2—Automatic Attendance System| First Semester 2023/2024 | Theory (Male) | 3 Credits
7. 571CIS-2 Project 1—Automatic Attendance System| Third Semester 2022/2023 | Theory (Male) | 3 Credits
8. 452CIS-3 Information System Engineering| Third Semester 2022/2023 | Theory (Male) | 3 Credits
9. 470CIS-3 Information System Ethics| Third Semester 2022/2023) | Theory (Male) | 3 Credits
10. 572CIS-2 Project 2—Go4Charity| (Second Semester 2022/2023)|Theory|3 Credits
11. 351CIS-3 Information System Project Management|(Second Semester 2022/2023)|Theory|3 Credits
12. 452CIS-3 Information System Engineering| (Second Semester 2022/2023)|Theory|3 Credits
13. 571CIS-2 Project 1—Go4Charity| (First Semester 2022/2023)|Theory|2 Credits
14. 351CIS-3 Information System Project Management|(First Semester 2022/2023)|Theory|3 Credits
15. 452CIS-3 Information System Engineering| (First Semester 2022/2023)|Theory|3 Credits
16. 452CIS-3 Information System Engineering| (First Semester 2022/2023)|Theory|3 Credits
17. 536CIS-3 Geographic Information Systems|(Summer Semester 2021/2022)|Theory|3 Credits
18. 351CIS-3 Information System Project Management|(Second Semester 2021/2022)|Theory|3 Credits
19. 452CIS-3 Information System Engineering| (Second Semester 2021/2022)|Theory|3 Credits
20. 351CIS-3 Information System Project Management|(First Semester 2021/2022)|Theory|3 Credits
21. 342CIS-3 Information System Engineering| (First Semester 2021/2022)|Theory|3 Credits
22. 345CSS-3 Operational Research|(Summer Semester 2020/2021)|Theory|3 Credits
23. 328CSS-3 Human Computer Interaction|(Summer Semester 2020/2021)|Theory|3 Credits
24. 351CIS-3 Information System Project Management|(Second Semester 2020/2021)|Theory|3 Credits
25. 345CSS-3 Operational Research|(Second Semester 2020/2021)|Theory|3 Credits
26. 505CS-4 Secure Software Development| (Second Semester 2020/2021)|Theory|4 Credits
27. 440CSS-3 Social, Ethical and Professional Issues|(First Semester 2020/2021)|Theory|3 Credits
28. 345CSS-3 Operational Research|(First Semester 2020/2021)|Theory|3 Credits

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29. 505CS-4 Secure Software Development| (First Semester 2020/2021)|Theory|4 Credits
30. 440CSS-3 Social, Ethical and Professional Issues|(Summer Semester 2019/2020)|Theory|3 Credits
31. 470CIS-3 Geographic Information Systems|(Summer Semester 2019/2020)|Theory|3 Credits
32. 351CIS-3 Information System Project Management|(Second Semester 2018/2019)|Theory|3 Credits
33. 241CIS-2 Fundamentals of Information Systems|(Second Semester 2018/2019)|Theory|3 Credits
34. 505CS-4 Secure Software Development| (Second Semester 2018/2019)|4 Credits
35. 345CSS-3 Operational Research|(First Semester 2018/2019)|Theory|3 Credits
36. 342CIS-3 Information System Engineering|(First Semester 2018/2019)|Theory|3 Credits
37. 345CSS-3 Operational Research|(Second Semester 2017/2018)|Theory|3 Credits
38. 351CIS-3 Information System Project Management|(Second Semester 2017/2018)|Theory|3 Credits
39. 345CSS-3 Operational Research|(First Semester 2017/2018)|Theory|3 Credits
40. 351CIS-3 Information System Project Management|(First Semester 2017/2018)|Theory|3 Credits
41. 345CSS-3 Operational Research|(Second Semester 2016/2017)|Theory|3 Credits
42. 345CSS-3 Operational Research|(First Semester 2016/2017)|Theory|3 Credits
43. 342CIS-3 Information System Engineering|(First Semester 2016/2017)|Theory/Lab|3 Credits
44. 235CSS-3 Theory of Computation|(Summer Semester 2015/2016)|Theory|3 Credits
45. 345CSS-3 Operational Research| (Summer Semester 2015/2016)|Theory|3 Credits
46. 342CIS-3 Information System Engineering|(Second Semester 2015/2016)|Theory/Lab|3 Credits
47. 342CSS-3 Software Engineering| (Second Semester 2015/2016)|Theory/Lab|3 Credits
48. 342CIS-3 Information System Engineering|(First Semester 2015/2016)|Theory/Lab|3 Credits
49. 342CSS-3 Software Engineering| (First Semester 2015/2016) | Theory/Lab | 3 Credits
50. 342CIS-3 Information System Engineering| (Second Semester 2014/2015)|Theory/Lab|3 Credits
51. 342CSS-3 Software Engineering|(Second Semester 2014/2015)|Theory/Lab|3 Credits
52. 226CSS-2 UNIX System Environment|(First Semester 2014/2015)|Theory/Lab|2 Credits

53. 342CIS-3 Information System Engineering|(First Semester 2014/2015)|Theory/Lab|3 Credits
54. 226CSS-2 UNIX System Environment|(Summer Semester 2013/2014)|Theory/Lab|2 Credits
55. 324CIS-3 Modern Application Development|(Summer Semester 2013/2014)|Theory/Lab|3 Credits
56. 342CIS-3 Information System Engineering|(Second Semester 2013/2014)|Theory|3 Credits
57. 342CIS-3 Information System Engineering|(First Semester 2013/2014)|Theory/Lab|3 Credits
58. 342CSS-3 Software Engineering|(First Semester 2013/2014)|Theory/Lab|3 Credits

PhD Courses

- 5 ECTS Writing Scientific Papers
- 3 ECTS Research Methodology for Information Technology
- 1 ECTS Presentation Course
- 3 ECTS Effective Written Documents
- 1 ECTS Effective Oral Presentations
- 10 ECTS Research Seminars

Master Courses

Semester 1

- 7.5 ECTS Introduction to Software Engineering and Management (ITU610)
- 7.5 ECTS Seminars in Software Engineering and Management (ITU620)
- 10 ECTS Industry Challenge Project (ITU630)

Semester 2

- 3.0 ECTS Quality and Quality Management (ITU070)
- 15 ECTS Technical Challenge Project (ITU650)
- 7.5 ECTS Software Leadership and Quality Management (ITU670)

Semester 3

- 6.0 ECTS Network security (DIT070)
- 7.5 ECTS Human-Computer Interaction (INL040)
- 6.0 ECTS Applied Computer Security (INN641)

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15 ECTS Research Project
(ITU730)

7.5 ECTS Thesis Preparation Course
(ITU740)

Semester 4

30 ECTS Master Thesis in Applied Information Technology
(ITU870)

Bachelor Courses

Year 1

20 ECTS Study Skills for the Digital Environment
(CPI122)

20 ECTS Integrated Packages for Business Information Systems
(CPI242)

10 ECTS Foundation Maths and Statistics
(CPM112)

10 ECTS Computing Mathematics
(CPM245)

20 ECTS Software Design and Development
(CPS117)

Year 1

10 ECTS Introduction to Business
(BFP108)

10 ECTS Mathematics for Computing
(CFM212)

20 ECTS Writing Software
(CFS112)

20 ECTS Hardware and Networks
(CFS143)

20 ECTS Modeling and Prototyping
(CFS187)

20 ECTS Computing Science
(CFS223)

10 ECTS Skills in Interactive Learning
(CFT117)

10 ECTS Human Aspects of Computing
(CFT217)

Year 3

10 ECTS Mathematics for Software Engineering
(CAM326)

10 ECTS Professional Issues
(CAP316)
20 ECTS Object Oriented Systems Development
(CAS243)
20 ECTS Algorithm, Processes and Data
(CAS344)
10 ECTS Artificial Intelligence
(CAS367)
20 ECTS Introductory Database Management Systems
(CAS372)
10 ECTS Introduction to Formal Specifications
(CAS436)
10 ECTS Operating System
(CAS455)
10 ECTS Human Computer Interaction
(CAT306)

Year 4

10 ECTS Information Systems Strategy
(CAI606)
40 ECTS Individual Project
(CAP524)
10 ECTS Computer Networks
(CAS446)
20 ECTS Large Systems Environment
(CAS517)
10 ECTS Distributed Systems
(CAS546)
10 ECTS Computer Graphics
(CAS625)
10 ECTS Artificial Neural Networks
(CAS650)
10 ECTS The study of Programming Languages
(CAS810)

Internships

August 2002 6 weeks internship at WorldTelMeca, Karachi Pakistan
April 2003 2 months internship at KIIT, Karachi Pakistan

Computer Skills

Operating Systems Microsoft Windows family and Linux

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Programming Languages	C, C++, OCL, UML, CSP, Alloy, USE, Java
Applications	Microsoft Office, TEX (\LaTeX , BibTeX), Prezi, Adobe applications, and other word processing and presentation tools
Networking	Microsoft Office, TEX (TCP, DNS, Dynamic routing, and other networking protocols

Awards

October 2022	Top 10 Research Award from Najran University, Saudi Arabia
May 2020	Exceptional Research Award from Department of Information Systems for the year 2019-2020, Najran University, Saudi Arabia
February 2015	Received Shield for best tutorial presentation in 4th International Multi Topic Conference (IMTIC 15) by Springer CCIS
May 2012	Best Presenter Award Seminar UIA Malaysia
April 2012	Won MOHE Malaysia Common Wealth Scholarship 2012
February 2012	Bronze Medal for poster presentation 2012 at UIA Malaysia
February 2012	Participation in postgraduate colloquium at UIA Malaysia
February 2011	Danish language certificate from Lærdansk, Odense, Denmark
June 2009	Spanish language certificate from Generalitat de Catalunya, Barcelona, Spain
April 2009	Research Grant from Internet Interdisciplinary Institute (IN3), Barcelona Spain

Communication Skills

- Ability to work individually and in a team.
- Quality to adapt to multicultural environments.

Languages

English	Fluent	<i>Able to Speak, Write, and Read</i>
Urdu	Fluent	<i>Able to Speak, Write, and Read</i>
Sindhi	Fluent	<i>Able to Speak, Write, and Read</i>
Arabic	Moderate	<i>Able to Speak, Write, and Read</i>
Swedish	Basic	
Danish	Basic	
Spanish	Basic	

Interests

- | | |
|--------------|------------|
| - Reading | - Writing |
| - Travelling | - Bowling |
| - Running | - Swimming |

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- Snooker

Personal Information

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Marital Status Married
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Residency Saudi Arabia Premium Residency Holder

References

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