



# Prof. Dr. Asadullah Shaikh

Professor (Software Engineering)

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

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

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

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

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## 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 Ongoing

## 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): **337.169**

### Year 2024

1. 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.
2. M.A.Elmagzoub, Swapandeeep Kaur, Sheifali Gupta, Adel Rajab, Khairan Rajab, Mana Saleh Al Reshan, Hani Alshahrani, and Asadullah Shaikh. **Improving Endoscopic Image Analysis: 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.
3. 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.

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4. M.A. Elmagzoub, Wahidur Rahman, Kaniz Rokhsana, 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
5. 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>
6. 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.
7. 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 30<sup>th</sup> ICE IEEE/ITMC Conference (ICE 2024), 24-28 June 2024, Estrada Monumental 175-177, Funchal 9000-100, Madeira, Portugal.
8. 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.
9. 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.
10. 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.** Accepted in Interdisciplinary Conference on Electrics and Computer (INTCEC 2024), 11-13 June 2024, Chicago-Illinois USA
11. 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.
12. 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.

13. 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.
14. 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.
15. Sunder Ali Khowaja, Sultan Almakdi, Muhammad Ali Memon, Parus Khuwaja, Adel Sulaiman, Ali Alqahtani, Asadullah Shaikh, Abdullah Alghamdi. **Extending User Control for Image Stylization using Hierarchical Style Transfer Networks.** Hvolume 10, Issue 5, pp. E27012, <https://doi.org/10.1016/j.heliyon.2024.e27012>. Impact Factor, 4.0, 2024.
16. Hira Noman, Naeem Mahoto, Sania Bhatti, Adel Rajab and Asadullah Shaikh. **Towards sustainable software systems: A software sustainability analysis framework.** Information and Software Technology, Volume 169, pp. 107411, <https://doi.org/10.1016/j.infsof.2024.107411>. Impact Factor, 3.9, 2024.
17. Erum Zubedi, Zhongliang Deng, Qasim Ali, Adil Khan, Asadullah Shaikh, Mana Saleh Reshan, Adel Sulaiman, Hani Alshahrani. **A Machine Learning and Deep Learning-based Integrated Multi-Omics Technique for Leukemia Prediction.** Heliyon, Volume 10, Issue 3, pp. e25369, <https://doi.org/10.1016/j.heliyon.2024.e25369>. Impact Factor, 4.0, 2024.
18. Faheem Ahmed Abbasi, Raymond Houé Ngouna, Muhammad Ali Memon, Mana Saleh Al Reshan, Adel Sulaiman, Asadullah Shaikh. **Fostering UAM implementation: from bibliometric analysis to insightful knowledge on the demand.** Social Network Analysis and Mining, vol. 14, 80 (2024). <https://doi.org/10.1007/s13278-024-01210-3>. Impact Factor (ESCI), 2.8, 2024.
19. Adel Sulaiman, Vatsala Anand, Sheifali Gupta, Mana Saleh Al Reshan, Hani Alshahrani, Asadullah Shaikh, and M.A. Elmagzoub. **An Intelligent LinkNet-34 Model with EfficientNetB7 Encoder for Semantic Segmentation of Brain Tumor.** Scientific Reports 14, 1345 (2024). <https://doi.org/10.1038/s41598-024-51472-2>. Impact Factor, 4.6, 2024.
20. Darakhshan Syed, Ghulam Muhammad Shaikh, Hani Alshahrani, Mohammed Hamdi, Mohammad Alsulami, Asadullah Shaikh, and Syed Rizwan. **A Comparative Analysis of Metaheuristic Techniques for High Availability Systems (September 2023).** IEEE Access, vol. 12, pp. 7382-7398, 2024, doi: 10.1109/ACCESS.2024.3352078. Impact Factor, 3.9, 2024.
21. Samina Amin, Muhammad Ali Zeb, Hani Alshahrani, Mohammed Hamdi, Mohammad Alsulami, Asadullah Shaikh. **Social Media-Based Surveillance Systems for Health Informatics Using Machine and Deep Learning Techniques: A Comprehensive Review and Open Challenges.** Computer Modeling in Engineering and Sciences <https://doi.org/10.32604/cmescs.2023.043921>. Impact Factor, 2.4, 2024.
22. Rejuwan Shamim and Asadullah Shaikh. **Harnessing the Power of Hugging Face's Multi-lingual Transformers: Unraveling the Code-Mixed Named Entity Recognition Enigma.**



Accepted in International Journal of Intelligent Engineering Informatics. Impact Factor (ESCI), 6.3, 2024.

23. Praveen Talari, Bharathiraja N, Gaganpreet Kaur, Hani Alshahrani, Mana Saleh Al Reshan, Adel Sulaiman, Asadullah Shaikh. **Hybrid Feature Selection and Classification Technique for Early Prediction and Severity of Diabetes Type 2.** PLoS ONE 19(1): e0292100. <https://doi.org/10.1371/journal.pone.0292100>. Impact Factor, 3.7, 2024.

### Year 2023

24. Neha Sharma, Sheifali Gupta , Adel Rajab , M.A.Elmagzoub, Khairan Rajab, and Asadullah Shaikh. **Semantic Segmentation of Gastrointestinal Tract in MRI Scans using PSPNet Model with ResNet34 Feature Encoding Network.** IEEE Access, vol. 11, pp. 132532-132543, 2023, doi: 10.1109/ACCESS.2023.3336862. Impact Factor, 3.9, 2023..
25. Adel Rajab, Hira Farman, Noman Islam, Darakhshan Syed, M. A. Elmagzoub, Asadullah Shaikh, Muhammad Akram and Mesfer Alrizq. **Flood Forecasting by Using Machine Learning: A Study Leveraging Historic Climatic Records of Bangladesh.** Water 2023, 15(22), 3970; <https://doi.org/10.3390/w15223970>. Impact Factor, 3.4, 2023.
26. Mana Saleh Al Reshan, Samina Amin, Muhammad Ali Zeb, Adel Sulaiman, Hani Alshahrani, and Asadullah Shaikh. **A Robust Heart Disease Prediction System Using Hybrid Deep Neural Networks.** IEEE Access, vol. 11, pp. 121574-121591, 2023, doi: 10.1109/ACCESS.2023.3328909. Impact Factor, 3.9, 2023.
27. Rafia Shaikh, Muhammad Rafi, Naeem Ahmed Ahmed Mahoto, Adel Sulaiman and Asadullah Shaikh. **A Filter-based Feature Selection Approach in Multilabel Classification.** Machine Learning: Science and Technology, Volume 4, Number 4, pages 045018; <https://dx.doi.org/10.1088/2632-2153/ad035d>. Impact Factor, 6.8, 2023.
28. Mana Saleh Al Reshan, Samina Amin, Muhammad Ali Zeb, Adel Sulaiman, Hani Alshahrani, Ahmad Taher Azar, Asadullah Shaikh. **Enhancing Breast Cancer Detection and Classification Using Advanced Multi-Model Features and Ensemble Machine Learning Techniques.** Life 2023, 13(10), 2093; <https://doi.org/10.3390/life13102093>. Impact Factor, 3.2, 2023.
29. Hani Alshahrani, Gunjan Sharma, Vatsala Anand, Sheifali Gupta, Adel Sulaiman, M.A Elmagzoub, Mana Saleh Al Reshan, Asadullah Shaikh, Ahmad Taher Azar. **An Intelligent Deep Learning-Based Method for Accurate Differentiation of Bone Marrow Stains to Diagnose Hematological Disorder.** Life 2023, 13(10), 2091; <https://doi.org/10.3390/life13102091>. Impact Factor, 3.2, 2023.
30. Gurjinder Kaur, Meenu Garg, Sheifali Gupta, Sapna Juneja, Junaid Rashid, Deepali Gupta, Asadullah Shah, Asadullah Shaikh. **Automatic Identification of Glomerular in Whole Slide Images Using Modified UNet Model.** Diagnostics 2023, 13(19), 3152; <https://doi.org/10.3390/diagnostics13193152>. Impact Factor, 3.6, 2023.
31. Muhammd Bux Alvi, Naeem Ahmed Mahoto, Mana Saleh Al Reshan, Mukhtiar Unar, M.A.Elmagzoub, and Asadullah Shaikh. **Count me too: Sentiment Analysis of Roman Sindhi Script.** SAGE Open, 13(3). <https://doi.org/10.1177/21582440231197452>. Impact Factor: 2.0, 2023.

32. Adel Sulaiman, Bharathiraja Nagu, Gaganpreet Kaur, Pradeepa Karuppaiah, Hani Alshahrani, Mana Saleh Al Reshan, Sultan AlYami, and Asadullah Shaikh. **Artificial Intelligence-Based Secured Power Grid Protocol for Smart City.** *Sensors* 2023, 23(19), 8016; <https://doi.org/10.3390/s23198016>. Impact Factor, 3.9, 2023.
33. Adel Sulaiman, Vatsala Anand, Sheifali Gupta, Hani Alshahrani, Mana Saleh Al Reshan, Adel Rajab, Asadullah Shaikh and Ahmad Taher Azar. **Sustainable Apple Disease Management Using an Intelligent Fine-Tuned Transfer Learning-Based Model.** *Sustainability* 2023, 15(17), 13228; <https://doi.org/10.3390/su151713228>. Impact Factor, 3.9, 2023.
34. Monica Dutta, Deepali Gupta, Sapna Juneja, Asadullah Shah, Asadullah Shaikh, Varun Shukla & Mukesh Kumar. **Boosting of Fruit Choices using Machine Learning-based Pomological Recommendation System.** *N Applied Sciences* 5, 241 (2023). <https://doi.org/10.1007/s42452-023-05462-0>. Impact Factor: 2.6, 2023.
35. Muhammad Owais Raza, Naeem Ahmed Mahoto, Mohammed Hamdi, Mana Saleh Al Reshan, Adel Rajab, and Asadullah Shaikh. **Detection of Offensive Terms in Resource-Poor Language Using Machine Learning Algorithms.** *PeerJ Computer Science* 9:e1524 <https://doi.org/10.7717/peerj-cs.1524>. Impact Factor: 3.8, 2023.
36. Neha Sharma, Sheifali Gupta, Mana Saleh Al Reshan, Adel Sulaiman, Hani Alshahrani and Asadullah Shaikh. **EfficientNetB0 cum FPN Based Semantic Segmentation of Gastrointestinal Tract Organs in MRI Scans.** *Diagnostics* 2023, 13(14), 2399; <https://doi.org/10.3390/diagnostics13142399>. Impact Factor: 3.6, 2023. [PDF]
37. Fayaz Hassan, Jianguo Yu, Zafi Sherhan Syed, Nadeem Ahmed, Mana Saleh Al Reshan, and Asadullah Shaikh. **Achieving model explainability for intrusion detection in VANETs with LIME.** *PeerJ Computer Science* 9:e1440, <https://doi.org/10.7717/peerj-cs.1440>. Impact Factor, 3.061, 2023.
38. Adel Sulaiman, Swapandeeep Kaur, Sheifali Gupta, Hani Alshahrani, Mana Saleh Al Reshan, Sultan Alyami and Asadullah Shaikh. **ResRandSVM: Hybrid Approach for Acute Lymphocytic Leukemia Classification in Blood Smear Images.** *Diagnostics* 2023, 13(12), 2121. Impact Factor: 3.992, 2023.
39. Hamza Sohail, Mahmood ul Hassan, M.A. Elmagzoub, Adel Rajab, Khairan Rajab, Adeel Ahmed, Asadullah Shaikh, Abid Ali, Harun Jamil. **BBSF: A Blockchain Based Secure Weather Forecasting Information Through Routing Protocol in Vanet.** *Sensors* 2023, 23(11), 5259; <https://doi.org/10.3390/s23115259>. Impact Factor, 3.847, 2023.
40. Hani Alshahrani, Attiya Khan, Muhammad Rizwan, Mana Saleh Al Reshan, Adel Sulaiman, Asadullah Shaikh. **Intrusion Detection Framework for Industrial Internet of Things using Software Defined Network.** *Sustainability* 2023, 15(11), 9001; <https://doi.org/10.3390/su15119001>. Impact Factor, 3.889, 2023.
41. Imran Ihsan, Hameedur Rehman, Asadullah Shaikh, Adel Sulaiman, Khairan Rajab, and Adel Rajab. **Improving In-Text Citation Reason Extraction and Classification using Supervised Machine Learning Techniques.** *Computer Speech and Language*, Volume 82, July 2023, 101526. Impact Factor, 3.252, 2023

42. Imran Ihsan, Hameedur Rehman, Asadullah Shaikh, Adel Sulaiman, Khairan Rajab, and Adel Rajab. **Improving In-Text Citation Reason Extraction and Classification using Supervised Machine Learning Techniques.** Accepted in Computer Speech and Language. Impact Factor, 3.252, 2023.
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## Scholar Profiles

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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

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Tenure October 2022–February 2023

Students Name Musaed Lashram Al-harthy and Abdullrahman Ahmad Alharthy

Thesis Title Professional Instant Messenger

University Najran University

Tenure January 2014–September 2014

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

Thesis Title Hospital Management Information System(HMIS)

University Najran University

Tenure September 2014–January 2015

Students Name Ali Ahmed S Qaisi, and Ahwi Hussen Abdullah

Thesis Title Grab a Taxi

University Najran University Malaysia

Tenure January 2017–June 2017

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## Edited Books

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<sup>A</sup>T<sub>E</sub>X

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.

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Book Title **Counterterrorism and Open Source Intelligence**

Nasrullah Memon and Reda Alhadj, 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  
10<sup>th</sup> International Virtual Conference on Emerging Trends & Technology in Computing And Software Engineering-2021 (IVCETTCS-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 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.

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- o **TCSE 94167301:** The IEEE Computer Society Technical Council on Software Engineering (TCSE.)

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### 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.
- 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.

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- 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 <sup>4<sup>th</sup></sup> **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

- 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 5<sup>th</sup> International Conference on Communication, Management and Information and Technology (ICCMIT 2019), Vienna, Austria.
- Publication Chair

### 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.
- 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 8<sup>th</sup> International Conference on Internet and Web Applications and Services (ICIW 2013)
- Conference 6 The 5<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2013)
- Conference 7 International Multi topic conference (IMTIC 2013) 18-20 December, 2013
- Conference 8 The 9<sup>th</sup> International Conference on Internet and Web Applications and Services (ICIW 2014)
- Conference 9 The 6<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2014)
- Conference 10 The 10<sup>th</sup> 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 10<sup>th</sup> International Conference on Internet and Web Applications and Services (ICIW 2015)
- Conference 14 The 7<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2015)
- Conference 15 1<sup>st</sup> International Workshop on Aspect Oriented Strategies for Domain Modelling (AOSDM16)
- Conference 16 1<sup>st</sup> International Conference on Computer and Electronics Engineering 2016 9-10 Jan, 2016 (ICCEE-2016)
- Conference 17 The 8<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2016) Nice, France
- Conference 18 IADIS International Conference (WWW/INTERNET 2015)
- Conference 19 The 11<sup>th</sup> International Conference on Internet and Web Applications and Service (ICIW 2016)
- Conference 20 2<sup>nd</sup> International Conference (WWW/INTERNET 2009)

- Conference 5<sup>th</sup> International Conference on Signal, Image Processing and Pattern Recognition  
21 (SPPR 2016)
- Conference 2<sup>nd</sup> International Conf on Communication & Information Processing (ICCIP 2016)  
22 Singapore)
- Conference 9<sup>th</sup> International Conf Computer Science and Information Technology (ICCSIT 2016)  
23 Ireland)
- Conference 2<sup>nd</sup> International Conference on Intelligent Information Processing, Security and  
24 Advanced Communication(IPAC'2016)Prague, Czech, Republic
- Conference 4<sup>th</sup> International Conference on Building and Exploring Web Based Environments  
25 (WEB 2016) Lisbon, Portugal
- Conference 2<sup>nd</sup> International Conference on Multimedia and Image Processing(ICMIP 2017)  
26 will be held in Wuhan, China
- Conference International Conf on Communication, Computing and Digital Systems (CCODE  
27 2017) Pakistan
- Conference 3<sup>rd</sup> International Conf on Communication & Information Processing (ICCIP 2017)  
28 Japan
- Conference 9<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2017) Rome,  
29 Italy
- Conference 16<sup>th</sup> International Conference on WWW/Internet 2017, Algarve, Portugal  
30
- Conference 2<sup>nd</sup> International Workshop on Signal Acquisition and Processing (ICSAP 2017)  
31 Qingdao, China
- Conference 14<sup>th</sup> th International Conference on Applied Computing , Portugal.  
32
- Conference International Conference on Internet and e-Business (ICIEB 2018), Singapore  
33
- Conference 15<sup>th</sup> International Learning and Technology Conference (L&T 2018), Jeddah, KSA  
34
- Conference International Conference on Computing, Electronics & Communications Engineering  
35 2018(ICCECE '18) University of Essex, Southend, UK
- Conference 10<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2018) Venice,  
36 Italy
- Conference International Conference on Emerging Technologies in Computing 2018(ICETiC '18)  
37 London Metropolitan University, London, UK
- Conference 4<sup>th</sup> International Conf on Communication & Information Processing (ICCIP 2018)  
38 China
- Conference 5<sup>th</sup>International Multi topic conference (IMTIC 2018) Jamshoro, Pakistan  
39
- Conference The 13<sup>th</sup> International Conference on Internet and Web Applications and Service  
40 (ICIW 2018)

- Conference 3<sup>rd</sup> International Conference on E-Business and Internet (ICEBI 2019), Prague,  
41 Czech Republic
- Conference The 11<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2019)  
42 Nice, France
- Conference 2<sup>nd</sup> IEEE International Conference on Emerging Technologies in Computing 2019  
43 (iCETiC '19), UK.
- Conference International Conf on Communication, Computing and Digital Systems (CCODE  
44 2019) Pakistan
- Conference 2<sup>nd</sup> International Conf on Computing and Big Data (ICCBD 2019), Taichung,  
45 Taiwan.
- Conference National Conference on Emerging Trends in Computing (NTETC'19), Pakistan  
46
- Conference The 14<sup>th</sup> International Conference on Internet and Web Applications and Service  
47 (ICIW 2019, Italy)
- Conference 5<sup>th</sup> International Conference on Signal and Image Processing (SIGI-2019), Dubai  
48
- Conference International Conference on Computational Science and Engineering (ICCSE 2019),  
49 Dubai
- Conference 5<sup>th</sup> International Conf on Communication & Information Processing (ICCIP 2019)  
50 China
- Conference Global 2020 Congress on Computer Engineering (GC-CompEng 2020), Athens,  
51 Greece
- Conference 1<sup>st</sup> International Conf on Software Engineering (MIC-Software 2020) Athens, Greece.  
52
- Conference 4<sup>th</sup> International Conference on Data Management, Analytics & Innovation (ICDMAI  
53 2020), India
- Conference 4<sup>th</sup> International Conference on E-Business and Internet (ICEBI 2020), Singapore  
54
- Conference The 15<sup>th</sup> International Conference on Internet and Web Applications and Service  
55 (ICIW 2020, Italy)
- Conference 6<sup>th</sup> International Conf on Communication & Information Processing (ICCIP 2020)  
56 Tokyo, Japan
- Conference 3<sup>rd</sup> International Conf on Computing and Big Data (ICCBD 2020), Taichung,  
57 Taiwan.
- Conference 3<sup>rd</sup> IEEE International Conference on Emerging Technologies in Computing 2020  
58 (iCETiC '20), UK.
- Conference 5<sup>th</sup> 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 61 International Conference on Smart Transportation and Future Mobility (CSTFM 2020), Spain
- Conference 62 IEEE International Conference on Computing, Networking, Telecommunications & Engineering Sciences Applications (CoNTESA '20), UK.
- Conference 63 The 12<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2020) Valencia, Spain
- Conference 64 5<sup>th</sup> International Conference on Data Management, Analytics & Innovation (ICDMAI 2021), India
- Conference 65 International Conference on Pattern Recognition and Intelligent Systems (PRIS 2021), Thailand.
- Conference 66 International Conference on Intelligent Vehicles (ICoIV 2021), China.
- Conference 67 International Symposium on Connected and Autonomous Vehicles (SoCAV 2021), Singapore.
- Conference 68 2<sup>nd</sup> International Conference on Internet and E-Business (ICIEB 2021), Barcelona, Spain
- Conference 69 5<sup>th</sup> International Conference on E-Business and Internet (ICEBI 2021), Singapore
- Conference 70 4<sup>th</sup> International Conf on Computing and Big Data (ICCBD 2021), Wuhan, China.
- Conference 71 4<sup>th</sup> IEEE International Conference on Emerging Technologies in Computing 2020 (iCETiC '21), UK.
- Conference 72 The 13<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2021) Athens, Greece
- Conference 73 The 2<sup>nd</sup> European Symposium on Software Engineering (ESSE 2021) Larissa, Greece
- Conference 74 The 20<sup>th</sup> IADIS International Conference (WWW/INTERNET 2021) Virtual Conference.
- Conference 75 International Symposium on Connected and Autonomous Vehicles (SoCAV 2022), Macao China
- Conference 76 10<sup>th</sup> International Scientific Conference Computer Science, Sofia, Bulgaria.
- Conference 77 5<sup>th</sup> International Conf on Computing and Big Data (ICCBD 2021), Shanghai, China.
- Conference 78 IEEE International Conference on Information Technologies (InfoTech 2022), Sofia, Bulgaria
- Conference 79 5<sup>th</sup> International Conf on Computing, Electronics & Communications Engineering (iCCECE '22), UK
- Conference 80 Industrial Electronics and Intelligent System Conference (IEISC '23), China

- Conference 81 International Conference on Information Communication and Software Engineering (ICICSE '23), China
- Conference 82 22<sup>nd</sup> International Conference on WWW/Internet (ICWI 2023) Madeira Island, Portugala
- Conference 83 9<sup>th</sup> International Conference on Communication and Information Processing, China
- Conference 84 Advanced Network Technologies and Computational Intelligence (ICANTCI 2024), India
- Conference 85 4<sup>th</sup> International Conference on Information Communication and Software Engineering (ICICSE 2024), China

#### Other Miscellaneous Reviewing Activities

- Conference 1 10<sup>th</sup> 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 13<sup>th</sup> 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

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- 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.
- 8 December 2021 Advances in L<sup>A</sup>T<sub>E</sub>X 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 Aborad 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-3 Cryptography|(First Semester 2022/2023)|Theory|3 Credits
2. 599MACYR-4 Research Project|(Third Semester 2022/2023)|Theory|4 Credits
3. 502MACYR-3 Cryptography|(Second Semester 2021/2022)|Theory|3 Credits
4. 597PMIS-3 Research Methodology|(Second Semester 2021/2022)|Theory|3 Credits
5. 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| Secon 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
6. 572CIS-2 Project 1—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

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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
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

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## 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

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## 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)
- 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
- 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

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

## Interests

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

## Personal Information

Date of Birth October 03, 1981  
 Marital Status Married  
 Passport Number BV5191363

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Nationality Pakistan

## References

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