



# Dr. Asadullah Shaikh

Associate Professor (Software Engineering)

B.Sc(UK), M.Sc(Sweden), and PhD(Denmark). Member of IET, England

## 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

- 2008–2013 **Doctorate, Ph.D (Software Engineering)**, *The University of Southern Denmark, Denmark.*
- 2005–2007 **Graduate, M.Sc Software Engineering and Management**, *Göteborg University, Sweden.*
- 2000–2005 **Undergraduate, B.Sc (Software Development)**, *The University of Huddersfield, England.*

### Work Experience

- Sep.2018–  
to.date **Associate Professor (Computer Science and Information Systems) and Head of Research and Graduate Studies**, *Najran University, Najran, Saudi Arabia.*
- Aug.2013–  
Sep  
2018 **Assistant Professor (Computer Science and Information Systems) and Head of Research**, *Najran University, Najran, Saudi Arabia.*
- Sep.2010–  
Feb.2013 **Research Assistant/PhD Scholar**, *Maersk Mc-Kinney Moller Institute, University of Southern Denmark.*
- Apr.2008–  
Dec.2009 **Research Assistant/PhD Scholar**, *Software Engineering Group GRES-UOC Rambla del Poblenou 156, Barcelona, Spain.*

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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

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.**

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.**

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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

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

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

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

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

Title Ontology-Based Verification of UML Class Model XOR Constraint and Dependency Relationship Constraints

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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

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

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

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

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

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

Title Deep Learning Models to Predict Multistep Traffic

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Researches Asadullah Shaikh and Basit Shahzad  
Grant No NU/RC/SERC/11/8 Najran University  
Dates Feb 2022 to Feb 2023  
FPR. Status Ongoing  
Smart City with Energy Theft Prevention System (ETPS) using Machine learning techniques  
Title Smart City with Energy Theft Prevention System (ETPS) using Machine learning techniques  
Researches Abdullah Alghamdi, Asadullah Shaikh, Mana Saleh Al Reshan and Mesfer Alrizq  
Grant No NU/RG/SERC/11/8 Najran University  
Dates Feb 2022 to Feb 2023  
FPR. Status Ongoing

## Publications

### Published and Accepted Papers

Cumulative Impact Factor (CIF): **117.15**

1. Mohammad Tabrez Quasim, Adel Sulaiman, Asadullah Shaikh and Mohammed Younus. **Blockchain in Churn Prediction based Telecommunication System on Climatic Weather Application.** Sustainable Computing: Informatics and Systems, Volume 35, pp. 100705, 2022. Impact Factor 4.028, 2022.
2. Asadullah Shaikh, Noman Islam, Hadiqa Israr, Mesfer Alrizq, Ghazala Shafi Sheikh and Adel Rajab. **Statistical Analysis of Demographics and Mortality Trends of Covid-19 Patients: Perspectives of A Developing Country.** Accepted in Soft Computing by Springer. Impact Factor 3.643, 2021.
3. Khairan Rajab, Mohammed Hamdi, Mana Saleh Al Reshan, Yousef Asiri, Asadullah Shaikh and Adel Rajab. **Implementation of Virtual Training: on The Example of the a Faculty of Computer Science during COVID-19 for Sustainable Development in Engineering Education.** Electronics, vol. 11, no. 5:694, pp, 1-20, 2022. Impact Factor 2.397, 2022.
4. Adel Rajab, Abdul Hafeez, Asadullah Shaikh, Abdullah Alghamdi, Mana Saleh Al Reshan, Mohammed Hamdi and Khairan Rajab. **UCLAONT: Ontology-Based UML Class Models Verification Tool.** Applied Sciences, vol. 12, no. 3:1397, pp, 1-17, 2022. ISI Thomson Reuters, Impact Factor, 2.679, 2022.
5. Asadullah Shaikh, Mana Saleh Al Reshan, Adel Sulaiman, Hani Alshahrani, and Yousef Asiri. **Secure Telemedicine System Design for COVID'19 Patients Treatment using Service Oriented Architecture.** Sensors, vol. 22, no. 3:952, pp, 1-22, 2022. ISI Thomson Reuters, Impact Factor, 3.576, 2021.
6. Muhammad Shahzeb Ali, Ali Alqahtani, Ansar Munir Shah, Adel Rajab, Mahmood ul Hassan, Asadullah Shaikh, Khairan Rajab and Basit Shahzad. **Improved-Equalized Cluster Head Election Routing Protocol for Wireless Sensor Networks.** Accepted in Computer Systems Science and Engineering. ISI Thomson Reuters, Impact Factor, 1.486, 2022.

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7. Iqra Abid, Sultan Almakdi, Hameedur Rahman, Ahmed Almulihi, Ali Alqahtani, Khairan Rajab, Abdulmajeed Alqhatani, and Asadullah Shaikh. **A Convolutional Neural Network for Skin Lesion Segmentation Using Double U-Net Architecture**. Accepted in Intelligent Automation & Soft Computing. ISI Thomson Reuters, Impact Factor, 1.647, 2022.
8. Bilal Chandio, Asadullah Shaikh, Maheen Bakhtyar, Mesfir Alrizq, Junaid Baber, Adel Sulaiman, Adel Rajab and Waheed Noor. **Sentiment Analysis of Roman Urdu on E-Commerce Reviews using Machine Learning**. Computer Modeling in Engineering & Sciences, pp. 1-25, Online First, doi:10.32604/cmcs.2022.019535. Impact Factor 1.593, 2022.
9. Hajira Saleem, Faisal Riaz, Asadullah Shaikh, Khairan Rajab, Adel Rajab, Muhammad Akram and Mana Saleh Al Reshan. **Optimizing Steering Angle Predictive Convolutional Neural Network for Autonomous Car**. Computers, Materials & Continua, vol. 71, no.2, pp. 2285-2302. Impact Factor, 3.772, 2022.
10. Farooq Javeed, Basit Shahzad, Asadullah Shaikh, Mana Saleh Al Reshan, Saba Ahmad, Hani Alshahrani and Khairan Rajab. **Strengthening Software Make vs. Buy Decision: A Mixed-Method Approach**. Intelligent Automation & Soft Computing, vol. 32, no.1, pp. 193–205, 2021. ISI Thomson Reuters, Impact Factor, 1.647, 2022.
11. Asadullah Shaikh, Syed Rizwan, Abdullah Alghamdi, Noman Islam, M.A. Elmagzoub and Darakhshan Syed. **A Learning-Based Fault Localization Approach Using Subset of Likely and Dynamic Invariants**. Intelligent Automation & Soft Computing, vol. 31, no.3, pp. 1529–1546, 2021. ISI Thomson Reuters, Impact Factor, 1.647, 2022.
12. Kanwal Imran, Nasreen Anjum, Abdullah Alghamdi, Asadullah Shaikh, Mohammed Hamdi, and Saeed Mahfooz. **A Secure and Efficient Cluster-Based Authentication Scheme for Internet of Things (IoT)**. Computers, Materials & Continua, vol. 70, no.1, pp. 1033-1052. Impact Factor, 3.772, 2022.
13. M. A. Elmagzoub, Darakhshan Syed, Asadullah Shaikh, Noman Islam, Abdullah Alghamdi, and Syed Rizwan. **A Survey of Swarm Intelligence based Load Balancing Techniques in Cloud Computing Environment**. Electronics 10, no. 21: 2718, 2021. ISI Thomson Reuters, Impact Factor, 2.97, 2021.
14. Mohammad Tabrez Quasim, Asadullah Shaikh, Mohammad Meraj, Adel Rajab, Sultan Almakdi and Ali Alqahtani. **Advanced Fault Detection and Recovering Approach for Clustering based Wireless Sensor Networks**. Accepted in Soft Computing by Springer. Impact Factor 3.643, 2021.
15. Asadullah Ahaikh, Abdul hafeez, Asif Ali Wagan, Mesfer Alrizq, Abdullah Alghamdi, Mana Saleh Al Reshan. **More Than Two Decades of Research on Verification of UML Class Models: A Systematic Literature Review**. IEEE Access, Vol. 9, pp. 142461 - 142474, 2021. ISI Thomson Reuters, Impact Factor, 3.321, 2021.
16. Noman Islam, Asadullah Shaikh, Asma Qaiser, Yousef Asiri, Sultan Almakdi, Adel Sulaiman, Verdah Moazzam and Syeda Aiman Babar. **Ternion: An Autonomous Model for Fake News Detection**. Applied Sciences, vol. 11, no. 19:9292, pp, 1-15, 2021. ISI Thomson Reuters, Impact Factor, 2.679, 2021.

17. Mohammad Tabrez Quasim, Asadullah Shaikh, Mohammed Shuaib, Adel Sulaiman, Shadab Alam and Yousef Asiri. **Fuzzy Decision-Making Method based Evaluation of Smart Healthcare Management**. Accepted in Soft Computing by Springer. Impact Factor 3.643, 2021.
18. Mesfer Alrizq, Sara Mehmood, Naeem Ahmed Mahoto, Ali Alqahtani, Mohammed Hamdi, Abdullah Alghamdi, and Asadullah Shaikh. **Analysis of Skim Reading on Desktop versus Mobile Screen**. Applied Sciences, vol. 11, no. 16:7398, pp, 1-21, 2021. ISI Thomson Reuters, Impact Factor, 2.679, 2021.
19. Muhammad Junaid, Asadullah Shaikh, Mahmood Ul Hassan, Abdullah Alghamdi, Khairan Rajab Mana Saleh Al Reshan and Monagi Alkinani. **Smart Agriculture Cloud using AI based Techniques**. Energies, vol. 14, no.16:5129, pp. 1-15, 2021. ISI Thomson Reuters, Impact Factor, 3.004, 2021.
20. Shakil Ahmed, Asadullah Shaikh, Hani Alshahrani, Abdullah Alghamdi, Mesfer Alrizq, Junaid Baber and Maheen Bakhtyar. **Transfer Learning Approach for Classification of Histopathology Whole Slide Images**. Sensors, vol. 21, no. 16:5361, pp, 1-22, 2021. ISI Thomson Reuters, Impact Factor, 3.576, 2021.
21. Naeem Ahmed Mahoto, Asadullah Shaikh, Mana Saleh Al Reshan, Muhammad Ali Memon and Adel Sulaiman. **Knowledge Discovery from Healthcare Electronic Records for Sustainable Environment**. Sustainability, vol. 13, no.16:8900, pp. 1-19, 2021. ISI Thomson Reuters, Impact Factor, 3.251, 2021.
22. Fayaz A. Memon, Umair A. Khan, Asadullah Shaikh, Abdullah Alghamdi, Pardeep Kumar, and Mesfer Alrizq. **Predicting Actions in Videos and Action-Based Segmentation Using Deep Learning**. IEEE Access, Vol. 9, pp. 106918-106932, 2021. ISI Thomson Reuters, Impact Factor, 3.321, 2021.
23. Basit Shahzad, Iqra Javed, Asadullah Shaikh, Adel Sulaiman, Ahsanullah Abro, and Muhammad Ali Memon. **Reliable Requirements Engineering Practices for COVID-19 Using Blockchain**. Sustainability 13, no. 12: 6748. ISI Thomson Reuters, Impact Factor, 2.576, 2021.
24. Naeem Ahmed Mahoto, Rabia Iftikhar, Asadullah Shaikh, Yousef Asiri, Abdullah Alghamdi, and Khairan Rajab. **An Intelligent Business Model for Product Price Prediction using Machine Learning Approach**. Intelligent Automation & Soft Computing, vol. 30, no.1, pp. 147–159, 2021. ISI Thomson Reuters, Impact Factor, 1.647, 2021.
25. Mohammad Tabrez Quasim, Saad Alhuwaimel, Asadullah Shaikh, Yousef Asiri, Khairan Rajab, Rihem Farkh, and Khaled Al jaloud. **An Improved Machine Learning Technique with Effective Heart Disease Prediction System**. Computers, Materials & Continua, vol. 69, no.3, pp. 4169–4181. Impact Factor, 3.772, 2021.
26. Muhammad Ali Memon, Asadullah Shaikh, Adel Sulaiman, Abdullah Alghamdi, Mesfer Alrizq, Bernard Archimède. **Time and Quantity Based Hybrid Consolidation Algorithms for Reduced Cost Products Delivery**. Computers, Materials & Continua, vol. 69, no.1, pp. 409–432. Impact Factor, 4.89, 2021.
27. Sara Mehmood, Naeem Ahmed Mahoto, Asadullah Shaikh, Hani Alshahrani, and Mana Saleh AlReshan. **Impact of Skim Reading Based on Different Screen Sizes**. Intelligent Automation

- & Soft Computing, vol. 29, no.2, pp. 587–604, 2021. ISI Thomson Reuters, Impact Factor, 1.276, 2021.
28. Abdullah Alghamdi, Tooba Mehtab, Rizwan Iqbal, Mona Leeza, Noman Islam, Mohammed Hamdi, and Asadullah Shaikh. **Automatic Classification of Monosyllabic and Multisyllabic Birds Using PDHF**. Electronics 10, no. 5: 624, 2021. ISI Thomson Reuters, Impact Factor, 2.412, 2021.
  29. Asadullah Shaikh, Abdul Hafeez, M.A. Elmagzoub, Abdullah Alghamdi, Ansar Siddique, and Basit Shahzad. **Ontology-Based Verification of UML Class Model XOR Constraints and Dependency Relationships Constraints**. Intelligent Automation & Soft Computing, vol. 27, no.2, pp. 565–579, 2021. ISI Thomson Reuters, Impact Factor, 1.276, 2021.
  30. Asadullah Shaikh, Mana Saleh AlReshan, Yousef Asiri, Adel Sulaiman, and Hani Alshahrani. **Tele-COVID: A Telemedicine SOA-based Architectural Design for COVID-19 Patients**. Computers, Materials & Continua, vol. 67, no.1, pp. 549–576. Impact Factor, 4.89, 2021.
  31. Turki Alelyani, Asadullah Shaikh, Adel A. Sulaiman, Yousef Asiri, Hani Alshahrani, and Sultan Almakdi. **Research Challenges and Opportunities Towards a Holistic View of Telemedicine Systems: A systematic review**. In Enhanced Telemedicine and e-Health: Advanced IoT Enabled Soft Computing Framework, Studies in Fuzziness and Soft Computing, Springer, vol. 410, pp. 3 - 26, 2021. Scopus Indexed.
  32. Asadullah Shaikh, Khairan Rajab, and Abdullah Alghamdi **Guest Editorial: Trends and Applications of Data Science and Big Knowledge**. International Journal of Data Science, Vol. 5, No. 2 (2020), pp.111-115, Inderscience, 2020.
  33. Asadullah Shaikh, Yousef Asiri, and Adel A. Sulaiman. **(Editorial) Evaluating Critical Measures of Quality Management And Quality Control**. International Journal for Quality Research, Vol. 14, No. 4 (2020), pp.985-988. Scopus and ESCI indexed, 2020.
  34. Asadullah Shaikh, and Khairan Rajab. **Editorial Special Issue on New Frontiers in Data Sciences and Data Analytics Tools and Applications**. Advances in Data Science and Adaptive Analysis Vol. 12, No. 2 (2020) 2002001, pp.1-3. World Scientific Publishing Company. DOI: 10.1142/S2424922X20020015. ESCI indexed, 2020.
  35. Asadullah Shaikh, and Abdullah Alghamdi. **IoT, Smart Environments and Interdisciplinary Applications for Technology Management and Sustainable Development**. International Journal of Technology Management & Sustainable Development, Vol. 19, No. 3, pp 257-261, 2020. Scopus Indexed.
  36. M.A. Elmagzoub, Asadullah Shaikh, Abdullah Alghamdi, and Khairan Rajab. **A Review on MIMO Wireless Signals over Fibre for Next Generation Fibre Wireless (FiWi) Broadband Networks**. Electronics. 2020; 9(12):2014, pp 2-31. ISI Thomson Reuters, Impact Factor, 2.412, 2020.
  37. Asadullah Shaikh, Mueen Uddin, M.A. Elmagzoub, and Abdullah Alghamdi. **PEMC: Power Efficiency Measurement Calculator to Compute Power Efficiency and CO<sub>2</sub> Emissions in Cloud Data Centers**. IEEE Access, Vol. 8, pp. 195216-195228, 2020, doi: 10.1109/ACCESS.2020.3033791.. ISI Thomson Reuters, Impact Factor, 3.745.

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38. Asadullah Shaikh. **An Interactive Design using Human Computer Interaction for Autonomous Vehicles.** International Journal of Engineering Trends and Technology (IJETT) – Editor's Issues - 2020, pp 160-172, 2020. Scopus Indexed. <https://doi.org/10.14445/22315381/CATI3P226>.
39. Asadullah Shaikh. **Guest Editorial: Advances in Deep Learning in Mobile Interactive Algorithms and Learning Technologies.** International Journal of Interactive Mobile Technologies (iJIM), Vol 14(10), pp 4-6, 2020. Scopus Indexed. <https://doi.org/10.3991/ijim.v14i10.15369>
40. Asadullah Shaikh. **Guest Editorial: Impact of Integrated Intelligent Information and Analytical Systems on Society.** Journal of Information Technology Management (JITM), Vol 12(3), pp 1-3. Scopus Indexed. <https://doi.org/10.22059/JITM.2020.76287>
41. Quadri Noorulhasan Naveed, Mohamed Rafik Noor Qureshi, Nasser Tairan, AbdulHafeez Mohammad, Asadullah Shaikh, Alhuseen O. Alsayed, Asadullah Shah, and Fahad Mazaed Alotaibi. **Evaluating critical success factors in implementing E-learning system using multi-criteria decision-making.** PLOS ONE. 2020;15(5):1-25. doi:10.1371/journal.pone.0231465. Impact Factor, 2.776, 2020.
42. Daler Ali, Malik Muhammad Saad Missen, Muhammad Ali Memon, Muhammad Ali Nizamani, Asadullah Shaikh. **Extracting Temporal Entities in Urdu Language.** University of Sindh Journal of Information and Communication Technology (USJICT), Vol.4 (3) pp. 181-188, October 2020.
43. Soobia Saeed, Asadullah Shaikh, Muhammad Ali Memon, Muhammad Ali Nizamani, Muhammad Memon. **Online Deal Portal: Factors to Consider for an Effective Design.** University of Sindh Journal of Information Communication Technology (USJICT), Vol. 4(1) pp. 38-44, March 2020.
44. Abdul Hafeez Muhammad, Asadullah Shaikh, Quadri N Naveed, and Mohamed Rafik Noor Qureshi. **Factors Affecting Academic Integrity in E-Learning of Saudi Arabian Universities.** An Investigation Using Delphi and AHP. IEEE Access, Volume 8 (1) 2020, pp 16259-16268 , ISSN 2169-3536. ISI Thomson Reuters, Impact Factor, 4.098.
45. Asadullah Shaikh. **The Framework to Analyze the Factors and Aspects of Information Security Program Maturity Grid.** International Journal of Advanced Trends in Computer Science and Engineering, Volume 9, No.1.1, PP 311-315, March 2020, ISSN 2278 - 3091. Scopus Indexed.
46. Noorulhasan Naveed Quadri, Mohamed Rafik N. Qureshi, Asadullah Shaikh, Alhuseen Omar Alsayed, Sumaya Sanober, and Khalid Mohiuddin. **Evaluating and Ranking Cloud-Based E-Learning Critical Success Factors (CSFs) Using Combinatorial Approach.** IEEE Access, Volume 7 (2019), pp 157145-157157 , ISSN 2169-3536. ISI Thomson Reuters, Impact Factor, 4.098.
47. Soobia Saeed, Asadullah Shaikh, Muhammad Ali Memon, Muhammad Ali Nizamani. **System Development Life Cycle Test Driven Technique and Defect Investigation.** University of Sindh Journal of Information Communication Technology (USJICT), Vol.3 (3) pp. 128-134, July 2019.
48. Asadullah Shaikh. **The Impact of Management of Information Communication Technology (MICT) on Society- International Conference on Communication, Management and**

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- Information Technology- ICCMIT 2019, Vienna, Austria.** Indian Journal of Science and Technology, Vol 12(18), May 2019. ISI web of science.
49. Soobia Saeed, Asadullah Shaikh, Muhammad Ali Memon, Muhammad Ali Nizamani, Faheem Ahmed Abbasi, and Syed Mehmood Raza Naqvi. **Evaluating the Quality of Point of Sale (POS) Software.** University of Sindh Journal of Information Communication Technology (USJICT), Vol.3 (2) pp. 69-75, April 2019.
  50. Muhammad Ali Memon, Zaira Hassan, Kamran Dahri, and Asadullah Shaikh. **Aspects Oriented UML to ECORE model Transformation.** The ISC International Journal of Information Security, Volume 11, Number 3 (pp. 97–103), August 2019,. ISI web of science.
  51. Asadullah Shaikh. **The Role of Maturity Driven Software Process Improvement in an Industry.** International Journal of Advanced Trends in Computer Science and Engineering, VOL. 8, NO. 11, 344-350, January 2019, ISSN 2278 - 3091. Scopus Indexed.
  52. Soobia Saeed, Asadullah Shaikh, Pardeep Kumar, Muhammad Ali Memon and Syed Mehmood Raza Naqvi. **Assimilation of Monitoring System for Emergency Power System.** Quaid-e-Awam University Research Journal, Vol. 16, NO. 1, 23-30, Jul-Dec 2018, ISSN 1605-8607. HEC Recognized.
  53. Soobia Saeed, Asadullah Shaikh, Muhammad Ali Memon and Syed Mehmood Raza Naqvi. **Technique for Tumor Detection Upon Brain MRI Image by Utilizing Support Vector Machine.** Quaid-e-Awam University Research Journal, Vol. 16, NO. 1, 23-30, Jul-Dec 2018, ISSN 1605-8607. HEC Recognized.
  54. Farroque Memon, Soobia Saeed, Asadullah Shaikh, and Muhammad Ali Memon. **Systematic Approach of Customer Relationship Management in Much Different Organization.** In Journal of Business Studies, JBS Vol 14, No.2, pp. 154-168, 2018. HEC Recognized.
  55. Soobia Saeed, Asadullah Shaikh, and Muhammad Ali Memon. **Impact of Social Networking Sites on Personality & Attitude of Young Adults (Research covering the young adults lives within Korangi, Karachi).** In international Research Journal of Arts & Humanities (IRJAH), Vol.46 (46) pp. 47-62 (2018). HEC Recognized.
  56. Asadullah Shaikh, Uffe Kock Wiil. **Overview of Slicing and Feedback Techniques for Efficient Verification of UML/OCL Class Diagrams.** IEEE Access, Volume 06 (2018), pp 23864-23882, ISSN 2169-3536. ISI Thomson Reuters, Impact Factor, 4.098.
  57. Abdul Hafeez, Syed Hyder Abbas Mussavi, Aqeel-ur-Rehman, and Asadullah Shaikh. **Ontology-Based Finite Satisfiability of UML Class Model.** IEEE Access, Volume 6 (2018), pp 3040-3050, ISSN 2169-3536. ISI Thomson Reuters, Impact Factor, 4.098.
  58. Soobia Saeed, Asadullah Shaikh, Syed Mehmood Raza Naqvi and Muhammad Ali Memon. **Impact Of Data Mining Techniques To Analyze Health Care Data.** Journal of Medical Imaging and Health Informatics, Vol. 8(4) May, pp. 674-682, 2018. ISI Thomson Reuters, Impact Factor, 0.62.
  59. Soobia Saeed, Asadullah Shaikh and Syed Mehmood Raza Naqvi. **Performance Analysis of Quality Assurance due to the usage of two Enterprise Resource Planning's (ERPs):**

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- Microsoft Dynamics AX and SAP.** In Mehran University Research Journal of Engineering and Technology, Volume 37, No. 2, pp. 337-350 April, 2018 HEC Recognized.
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## Scholar Profiles

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

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

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

## Student Supervision

### PhD Co-Supervision

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

### Undergraduate Supervision

Students Name Musaed Lashram Al-harthy and Abdullrahman Ahmad Alharthy

Thesis Title Professional Instant Messenger

University Najran University Malaysia

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 Malaysia

Tenure September 2014–January 2015

Students Name Ali Ahmed S Qaisi, and Ahwi Hussien Abdullah

Thesis Title Grab a Taxi

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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 $\LaTeX$

- 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 Alhadj, Editors. From Sociology to Social Networks Theory, Foundations and Applications, volume 1 of Lecture Notes in Social Networks Springer, 2010.

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## Professional Activities

### Keynote Speeches

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

#### Professional Memberships

- **Membership No: 94167301:** IEEE Professional 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.
- **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

Editor - in - Chief International Journal of Advanced Computer Systems and Software Engineering By Scientific Academia, Malaysia. IJACSSE [E-ISSN 2716-5256]

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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.

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- 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 Economía 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 Economía 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.
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- 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.

#### Session Chair and Publication Chair

- Publication Chair USAR Series of Conferences 2021, Athens, Greece.
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Editorial Board Member Artificial Intelligence Evolution By Universal Wiser Publisher, Singapore.

Editorial Board Member International Journal of Computing and Related Technologies (IJCRT). Sindh  
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Editorial Board Member Pakistan Journal of Computer and Information Systems (PJCIS) by Pakistan Scientific  
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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

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- 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 21 5<sup>th</sup> International Conference on Signal, Image Processing and Pattern Recognition (SPPR 2016)
- Conference 22 2<sup>nd</sup> International Conf on Communication & Information Processing (ICCIP 2016) Singapore)
- Conference 23 9<sup>th</sup> International Conf Computer Science and Information Technology (ICCSIT 2016) Ireland)
- Conference 24 2<sup>nd</sup> International Conference on Intelligent Information Processing, Security and Advanced Communication(IPAC'2016)Prague, Czech, Republic
- Conference 25 4<sup>th</sup> International Conference on Building and Exploring Web Based Environments (WEB 2016) Lisbon, Portugal
- Conference 26 2<sup>nd</sup> 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 3<sup>rd</sup> International Conf on Communication & Information Processing (ICCIP 2017) Japan
- Conference 29 9<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2017) Rome, Italy
- Conference 30 16<sup>th</sup> International Conference on WWW/Internet 2017, Algarve, Portugal
- Conference 31 2<sup>nd</sup> International Workshop on Signal Acquisition and Processing (ICSAP 2017) Qingdao, China
- Conference 32 14<sup>th</sup> th International Conference on Applied Computing , Portugal.

- Conference 33 International Conference on Internet and e-Business (ICIEB 2018), Singapore
- Conference 34 15<sup>th</sup> 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 10<sup>th</sup> 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 4<sup>th</sup> International Conf on Communication & Information Processing (ICCIP 2018) China
- Conference 39 5<sup>th</sup> International Multi topic conference (IMTIC 2018) Jamshoro, Pakistan
- Conference 40 The 13<sup>th</sup> International Conference on Internet and Web Applications and Service (ICIW 2018)
- Conference 41 3<sup>rd</sup> International Conference on E-Business and Internet (ICEBI 2019), Prague, Czech Republic
- Conference 42 The 11<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2019) Nice, France
- Conference 43 2<sup>nd</sup> 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 2<sup>nd</sup> 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 14<sup>th</sup> International Conference on Internet and Web Applications and Service (ICIW 2019, Italy)
- Conference 48 5<sup>th</sup> International Conference on Signal and Image Processing (SIGI-2019), Dubai
- Conference 49 International Conference on Computational Science and Engineering (ICCSE 2019), Dubai
- Conference 50 5<sup>th</sup> International Conf on Communication & Information Processing (ICCIP 2019) China
- Conference 51 Global 2020 Congress on Computer Engineering (GC-CompEng 2020), Athens, Greece
- Conference 52 1<sup>st</sup> International Conf on Software Engineering (MIC-Software 2020) Athens, Greece.

- 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 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 12<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2020)  
63 Valencia, Spain
- Conference 5<sup>th</sup> 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 (ICoV 2021), China.  
66
- Conference International Symposium on Connected and Autonomous Vehicles (SoCAV 2021),  
67 Singapore.
- Conference 2<sup>nd</sup> International Conference on Internet and E-Business (ICIEB 2021), Barcelona,  
68 Spain
- Conference 5<sup>th</sup> International Conference on E-Business and Internet (ICEBI 2021), Singapore  
69
- Conference 4<sup>th</sup> International Conf on Computing and Big Data (ICCBD 2021), Wuhan, China.  
70
- Conference 4<sup>th</sup> IEEE International Conference on Emerging Technologies in Computing 2020  
71 (iCETiC '21), UK.
- Conference The 13<sup>th</sup> International Conference on Advances in Future Internet (AFIN 2021)  
72 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 74 International Symposium on Connected and Autonomous Vehicles (SoCAV 2022), Macao 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
- 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.

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- 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.

### 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

- 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 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

1. 597PMIS-3 Research Methodology|(Second Semester 2021/2022)|Theory|3 Credits
2. 351CIS-3 Information System Project Management|(Second Semester 2021/2022)|Theory|3 Credits
3. 452CIS-3 Information System Engineering| (Second Semester 2021/2022)|Theory|3 Credits
4. 502MEIT-3 Project Management|(First Semester 2021/2022)|Theory|3 Credits
5. 351CIS-3 Information System Project Management|(First Semester 2021/2022)|Theory|3 Credits
6. 342CIS-3 Information System Engineering| (First Semester 2021/2022)|Theory|3 Credits
7. 345CSS-3 Operational Research|(Summer Semester 2020/2021)|Theory|3 Credits
8. 328CSS-3 Human Computer Interaction|(Summer Semester 2020/2021)|Theory|3 Credits
9. 351CIS-3 Information System Project Management|(Second Semester 2020/2021)|Theory|3 Credits
10. 345CSS-3 Operational Research|(Second Semester 2020/2021)|Theory|3 Credits
11. 505CS-4 Secure Software Development| (Second Semester 2020/2021)|Theory|4 Credits
12. 440CSS-3 Social, Ethical and Professional Issues|(First Semester 2020/2021)|Theory|3 Credits
13. 345CSS-3 Operational Research|(First Semester 2020/2021)|Theory|3 Credits
14. 505CS-4 Secure Software Development| (First Semester 2020/2021)|Theory|4 Credits
15. 440CSS-3 Social, Ethical and Professional Issues|(Summer Semester 2019/2020)|Theory|3 Credits
16. 470CIS-3 Geographic Information Systems|(Summer Semester 2019/2020)|Theory|3 Credits
17. 351CIS-3 Information System Project Management|(Second Semester 2018/2019)|Theory|3 Credits
18. 241CIS-2 Fundamentals of Information Systems|(Second Semester 2018/2019)|Theory|3 Credits
19. 505CS-4 Secure Software Development| (Second Semester 2018/2019)|4 Credits
20. 345CSS-3 Operational Research|(First Semester 2018/2019)|Theory|3 Credits
21. 342CIS-3 Information System Engineering|(First Semester 2018/2019)|Theory|3 Credits
22. 345CSS-3 Operational Research|(Second Semester 2017/2018)|Theory|3 Credits
23. 351CIS-3 Information System Project Management|(Second Semester 2017/2018)|Theory|3 Credits

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24. 345CSS-3 Operational Research|(First Semester 2017/2018)|Theory|3 Credits
25. 351CIS-3 Information System Project Management|(First Semester 2017/2018)|Theory|3 Credits
26. 345CSS-3 Operational Research|(Second Semester 2016/2017)|Theory|3 Credits
27. 345CSS-3 Operational Research|(First Semester 2016/2017)|Theory|3 Credits
28. 342CIS-3 Information System Engineering|(First Semester 2016/2017)|Theory/Lab|3 Credits
29. 235CSS-3 Theory of Computation|(Summer Semester 2015/2016)|Theory|3 Credits
30. 345CSS-3 Operational Research| (Summer Semester 2015/2016)|Theory|3 Credits
31. 342CIS-3 Information System Engineering|(Second Semester 2015/2016)|Theory/Lab|3 Credits
32. 342CSS-3 Software Engineering| (Second Semester 2015/2016)|Theory/Lab|3 Credits
33. 342CIS-3 Information System Engineering|(First Semester 2015/2016)|Theory/Lab|3 Credits
34. 342CSS-3 Software Engineering| (First Semester 2015/2016) | Theory/Lab | 3 Credits
35. 342CIS-3 Information System Engineering| (Second Semester 2014/2015)|Theory/Lab|3 Credits
36. 342CSS-3 Software Engineering|(Second Semester 2014/2015)|Theory/Lab|3 Credits
37. 226CSS-2 UNIX System Environment|(First Semester 2014/2015)|Theory/Lab|2 Credits
38. 342CIS-3 Information System Engineering|(First Semester 2014/2015)|Theory/Lab|3 Credits
39. 226CSS-2 UNIX System Environment|(Summer Semester 2013/2014)|Theory/Lab|2 Credits
40. 324CIS-3 Modern Application Development|(Summer Semester 2013/2014)|Theory/Lab|3 Credits
41. 342CIS-3 Information System Engineering|(Second Semester 2013/2014)|Theory|3 Credits
42. 342CIS-3 Information System Engineering|(First Semester 2013/2014)|Theory/Lab|3 Credits
43. 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

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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)

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## 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)

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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)

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## Internships

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

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## 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)

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## Awards

- 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
- Travelling
- Running
- Snooker
- Writing
- Bowling
- Swimming

## Personal Information

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

## References

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**Dr. Muhammad Ali Memon**

Associate Professor

Institute of Information & Communication Technology IICT  
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Phone: +923330368616

**Dr. Fahad Shahbaz Khan**

Assistant Professor

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Linkoping university, Sweden.

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