



# 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.

### 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**, *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.*
- Aug.2011–  
Jun.2013 **Assistant Professor (Computer Science and Information Technology)**, *Institute of Business and Technology (IBT) Korangi Creek, Karachi, Pakistan.*
- Sep.2010–  
Jun.2011 **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 (Part Time)**, *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

### Current Research Interests

Software Engineering, Software Verification and Validation, Software Testing, Model Based Checking, 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 Will.
- 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.**
- Bachelor's Final Project **Secure Pc Access and Spyware.**
- Bachelor's Semester Project **Development of Website for Shopping Places.**

### 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**  
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- 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  
 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

## Publications

### Submitted Papers

1. Abdul Hafeez , Asadullah Shaikh, Quadri Noorulhasan Naveed, Khalid Mohiuddin, Aqeel ur Rehman and Syed Hyder Abbas Mussavi. **UMLtoONTO: A Ontology-Based UML Class Model Verification Tool**. Submitted in PLOS ONE. ISI Thomson Reuters, Impact Factor, 2.776, 2020.

### Published and Accepted Papers

1. 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.
2. Mohamed Rafik Noor Mohamed, Quadri Noorulhasan Naveed, Asadullah Shaikh, Sajid Ali Khan, and Muhammad Ali Memon. **Evaluating and Prioritizing Barriers to E-Learning using AHP-GDM**. Accepted in Educational Measurement: Issues and Practice. ISI Thomson Reuters, Impact Factor, 1.54, 2021.
3. 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.
4. 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**. Accepted in Enhanced Telemedicine and e-Health: Advanced IoT Enabled Soft Computing Framework. Studies in Fuzziness and Soft Computing By Springer. Scopus Indexed, 2021.
5. 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.
6. 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.
7. 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.
8. 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. ISI Thomson Reuters, Impact Factor, 2.412, 2020.
9. 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**

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- in Cloud Data Centers.** Accepted in IEEE Access, Vol. 8, pp. 195216-195228, 2020, doi: 10.1109/ACCESS.2020.3033791.. ISI Thomson Reuters, Impact Factor, 3.745.
10. 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>.
  11. Asadullah Shaikh, Yousef Asiri, Adel A. Sulaiman. **Guest Editorial: Evaluating Critical Measures of Quality Management and Quality Control.** International Journal of Quality Research (IJQR), Vol 14(4), pp 1-4, 2020. Scopus Indexed. <https://doi.org/10.24874/IJQR14.04-00>
  12. 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>
  13. 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>
  14. 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.
  15. 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.
  16. 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.
  17. 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.
  18. 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, 2020, March 2020, ISSN 2278 - 3091. Scopus Indexed.
  19. 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.

20. 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.
21. Asadullah Shaikh. **The Impact of Management of Information Communication Technology (MICT) on Society- International Conference on Communication, Management and Information Technology- ICCMIT 2019, Vienna, Austria**. Indian Journal of Science and Technology, Vol 12(18), May 2019. ISI web of science.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.

30. 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.
31. 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.
32. 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): 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.
33. Mutiullah Shaikh, Farah Deebea, Asadullah Shaikh, and Muhammad Ali Memon. **State-Full Virtual Machine Live Data Migration For Improved Load Balancing**. In Sindh University Research Journal (SUJO), Vol.50 (1) pp. 107-114 (2018). HEC Recognized
34. 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, pp. 38-48 2017, ISSN 1605-8607.
35. Muhammad Ali Memon, Asadullah Shaikh, Kamran Taj Pathan, Majid Hussain Memon and Kamran Dahri. **Route Finding For Facilitating Transportation Planning To Maintain Smooth Product Flow In Supply Chain**. In Journal of Business Studies, JBS Vol 13, No.2, pp. 11-21, 2017. HEC Recognized.
36. Khizer Hayat Khuhawa, Muhammad Ali Memon, Asadullah Shaikh, Hyder Ali Nizamani, and Majid Hussain Memon. **Reasons As To Why Consumer Prefers One Brand Over Another: A Study Of Packaged Milk In Hyderabad Using Blind Tests**. In Journal of Business Studies, JBS Vol 13, No.2, pp. 50-59, 2017. HEC Recognized.
37. Soobia Saeed, Asadullah Shaikh, Muhammad Ali Memon, Muhammad Qaiser Saleem and Syed Mehmood Raza Naqvi. **Assessment of Brain Tumor Due to the Usage of MATLAB Performance**. Journal of Medical Imaging and Health Informatics, Vol. 7, 1454–1460, 2017. ISI Thomson Reuters, Impact Factor, 0.77.
38. Muhammad Ali Memon , Asadullah Shaikh, Majid Hussain, and Raza Shah. **Data Transformation with Interoperable Service Utilities in Heterogeneous Transport Systems**. In Sindh University Journal (SUJO), Vol.49 (2) pp. 349-356 (2017).
39. Soobia Saeed, Asadullah Shaikh, Muhammad Ali Memon, Majid Hussain Memon, Faheem Ahmed Abassi and Syed Mehmood R Naqvi, **Implementation of Failure Enterprise Systems in Organizational Perspective Framework**. International Journal of Advanced Computer Science and Applications(IJACSA), 8(5), 2017. Impact Factor 1.32, 2017.
40. Soobia Saeed, Asadullah Shaikh and Shahbaz Ahmed Noor. **Analysis of Brain Tumor Due To the Usage of Mobile Phone**. In Mehran University Research Journal of Engineering and Technology, July 2017, Volume 36, Issue 3, pp 609-620 HEC Recognized, 2017.

41. Burhan Saleh, Hasan Rosyadi and Asadullah Shaikh. **Augmented Reality (AR) Sandbox: An Interactive Approach in Fluvial Geomorphology.** In 14<sup>th</sup> Learning and Technology (L&T) International conference, 2017.
42. Mohammad Al Shargabi and Asadullah Shaikh. **Enhancing The Quality Of Service For Real Time Traffic Over Optical Burst Switching (Obs) Networks With Ensuring The Fairness For Other Traffics.** PLOS ONE 11, no. 9 (2016): e0161873. Impact Factor: 3.2, 2016.
43. Asadullah Shaikh and Uffe Kock Wiil. **Efficient verification-driven slicing for UML/OCL class diagrams.** In International Journal of Advanced Computer Science and Applications (IJACSA) By the science and information organization, Volume 7 Issue 5, 2016, pp 530-547. Impact Factor 1.32, 2016.
44. Muhammad Ali Memon, Asadullah Shaikh, Khizer Hayat, and Mutiullah Shaikh. **Virtual Heterogeneous Model Integration Layer.** In International Journal of Advanced Computer Science and Applications (IJACSA) By the science and information organization, Volume 7 Issue 5, 2016, pp 591-597. Impact Factor 1.32, 2016.
45. Mutiullah Shaikh, Asadullah Shaikh, Muhammad Ali Memon, and Farah Deeba. **Analyzing Virtual Machine Live Migration In Application Data Context.** In International Journal of Advanced Computer Science and Applications (IJACSA) By the science and information organization, Volume 7 Issue 5, 2016, pp 401-407. Impact Factor 1.32, 2016.
46. Mohammad Al Sulami, and Asadullah Shaikh. **The Information-Seeking Problem in Human-Technology Interaction.** In International Journal of Advanced Computer Science and Applications (IJACSA) By the science and information organization, Volume 7 Issue 5, 2016, pp 584-590. Impact Factor 1.32, 2016.
47. Abid Ghaffar, Mohamed Ridza Wahiddin, Asadullah Shaikh, and Akhlaq Ahmad. **Multi-Layered Alert Filtration and Feedback Cycle using Brahms Model.** Accepted in 4<sup>th</sup> International Conference on Advanced Computer Science Applications and Technologies - ACSAT2015 by IEEE.
48. Ahmad M. Taleb, Asadullah Shaikh, Todd Eavis, and Nasser M. Taleb. **High Performance Framework for Mining Association Rules from Hierarchical Data Cube.** In International Journal of Business Intelligence and Data Mining 10.3 (2015): 233-252
49. Abid Ghaffar, Mohamed Ridza Wahiddin, Asadullah Shaikh and Akhlaq Ahmad. **Generating Alerts using Context Aware Security and Brahms Model for Customer Service Improvement.** In 4<sup>th</sup> International Multi Topic Conference (IMTIC 15) by Mehran University of Engineering and Technology, pp 47-54, 2015.
50. Abid Ghaffar, Mohamed Ridza Wahiddin, Mohamad Fauzan Bin Noordin and Asadullah Shaikh. **A Framework to Improve Customer Service Using Brahms Model.** In Journal of Engineering Innovation and Research (IJEIT), 2015, Volume 4, Issue 1, ISSN: 2277 - 5668, 2015.
51. Asadullah Shaikh . **The impact of SOA on a system design for a telemedicine healthcare system.** In Network Modeling Analysis in Health Informatics and Bioinformatics 4.1 (2015): 1-16 by Springer.



52. Asadullah Shaikh. NoMadCar: **The Interactive Design using Human Computer Interaction Techniques**. In Journal of Advanced Computer Science and Technology Research, [S.l.], v. 5, n. 1, apr. 2015
53. Abid Ghaffar, Mohamed Ridza Wahiddin, Mohamad Fauzan Bin Noordin and Asadullah Shaikh. **Evaluation of Tools and Techniques for the Generation of Warning Alerts: A Survey Paper**. In Journal Transactions on Machine Learning and Artificial Intelligence 10.14738/tm-lai.32.1078. ISSN 2054-7390, 2015.
54. Mazen Ali Gazzan and Asadullah Shaikh. **Towards Bridging the Gap between CMMI and Agile Development Methodologies**. In 27<sup>th</sup> International Conference on Computer Applications in Industry and Engineering USA, 978-1-880843-97-0, 2014.
55. Safeullah Soomro, Abdul Hafeez, Asadullah Shaikh and Syed Hyder Abbas Musavi. **Ontology Based Requirement Interdependency Representation and Visualization**. In 3<sup>rd</sup> International Multi Topic Conference (IMTIC 13) by Springer CCIS 414 Series, pp 259-270, 2014.
56. Abid Ghaffar, Mohamed Ridza Wahiddin, and Asadullah Shaikh. **Computer assisted alerts using mental model approach for customer service improvement**. In Journal of Software Engineering and Applications, 2013, 6, 21-25 doi:10.4236/jsea.2013.65B005. Impact Factor: 0.15.
57. Asadullah Shaikh and Uffe Kock Wiil. **A feedback technique for unsatisfiable UML/OCL class diagrams. In Software Practice and Experience (SPE)**. Published online in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/spe.2211. Impact Factor: 1.008. ISI Indexed
58. Fahad Samad, Qassem Abu Ahmed, Asadullah Shaikh, and Abdul Aziz. **Jam: Mitigating jellyfish attacks in wireless ad hoc networks**. In Emerging Trends and Applications in Information Communication Technologies, volume 281 of Communications in Computer and Information Science, pages 432-444. Springer Berlin Heidelberg, 2012.
59. Asadullah Shaikh, Naveed Anjum, Fahad Samad, and Asadullah Shah. **Building wireless sensor networks application using sun spots**. In Emerging Trends and Applications in Information Communication Technologies, volume 281 of Communications in Computer and Information Science, pages 466-477. Springer Berlin Heidelberg, 2012.
60. Asadullah Shaikh and Uffe Kock Wiil. **UmltoCSP (UOST): A tool for efficient verification of UML/OCL class diagrams through model slicing**. In ACM SIGSOFT FSE, pages 37:1-37:4, 2012. Acceptance ratio: 17 percent.
61. Muniba Shaikh, Humaira Dar, Asadullah Shaikh, and Asadullah Shah. **Adjusted edit distance algorithm for alias detection**. In International Conference on Information and Knowledge Management (ICKM), pages 118-122, 2012.
62. Shah, Asadullah and Shaikh, Asadullah and Shaikh, Muniba and Bhatti, Zeeshan and Abdullah Zammarh, Nuha and Dwi Handayani, Dini Oktarina and Shah, Zoya, eds. (2011) **Statistical time division multiplexing architectures and design**. IIUM Press, Kuala Lumpur. ISBN 978-967-418-190-1

63. Asadullah Shaikh,Zeeshan Bhatti,and Asadullah Shah (2011) **Bitwise Operators and Type Casting**. IIUM Press, Kuala Lumpur, pp. 45-50 . ISBN 978-967-418-086-7.
64. Asadullah Shaikh,Zeeshan Bhatti,and Asadullah Shah (2011) **Conditional Statements**. IIUM Press, Kuala Lumpur, pp. 41-55 . ISBN 978-967-418-086-7.
65. Asadullah Shaikh,Zeeshan Bhatti,and Asadullah Shah (2011) **IF ELSE Statements**. IIUM Press, Kuala Lumpur, pp. 45-60 . ISBN 978-967-418-086-7.
66. Asadullah Shaikh,Zeeshan Bhatti,and Asadullah Shah (2011) **IF ELSE Statements IF**. IIUM Press, Kuala Lumpur, pp. 61-66 . ISBN 978-967-418-086-7.
67. Asadullah Shaikh,Zeeshan Bhatti,and Asadullah Shah (2011) **Switch Satatements**. IIUM Press, Kuala Lumpur, pp. 67-72 . ISBN 978-967-418-086-7.
68. Shah, Asadullah and Shaikh, Asadullah (2011) **Arithmetic expressions and data types in C++**. In: **C++ Programming: Step by Step**. IIUM Press, Kuala Lumpur, pp. 1-3. ISBN 9789674180904
69. Shah, Asadullah and Shaikh, Asadullah (2011) **Decision making: If-else statements and relational operators**. In: **C++ Programming: Step by Step**. IIUM Press, Kuala Lumpur, pp. 17-24. ISBN 9789674180904
70. Shah, Asadullah and Shaikh, Asadullah (2011) **Introduction**. In: **C++ Programming: Step by Step**. IIUM Press, Kuala Lumpur, pp. 1-3. ISBN 9789674180904
71. Shah, Asadullah and Shaikh, Asadullah (2011) **Sending the output to a print file**. In: **C++ Programming: Step by Step**. IIUM Press, Kuala Lumpur, pp. 11-16. ISBN 9789674180904
72. Shah, Asadullah and Shaikh, Asadullah and Alshaikhli, Imad Fakhri Taha (2011) **Basic storage management**. In: **Introduction of computer systems and applications**. IIUM Press, Kuala Lumpur, pp. 113-118. ISBN 9789674180850
73. Shah, Asadullah and Shaikh, Asadullah (2011) **Control panel of an oscilloscope**. In: **Understanding basic concept of electrical and electronic systems**. IIUM Press, Kuala Lumpur, pp. 29-33. ISBN 9789674181161
74. Shah, Asadullah and Shaikh, Asadullah (2011) **Digital multiplexing techniques**. In: **Statistical Time Division Multiplexing Architectures and Design**. IIUM Press, Kuala Lumpur, pp. 5-9. ISBN 978-967-418-190-1
75. Shah, Asadullah and Shaikh, Asadullah (2011) **Linear predictive coding of speech**. In: **Statistical Time Division Multiplexing Architectures and Design**. IIUM Press, Kuala Lumpur, pp. 15-17. ISBN 978-967-418-190-1
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79. Shah, Asadullah and Shaikh, Asadullah and Alshaikhli, Imad Fakhri Taha (2011) **Network security setting**. In: Introduction of computer systems and applications. IIUM Press, Kuala Lumpur, pp. 99-106. ISBN 9789674180850
80. Shah, Asadullah and Shaikh, Asadullah (2011) **Operation of an oscilloscope**. In: Understanding basic concept of electrical and electronic systems. IIUM Press, Kuala Lumpur, pp. 34-38. ISBN 9789674181161
81. Shah, Asadullah and Shaikh, Asadullah (2011) **Resistor color codes**. In: Understanding basic concept of electrical and electronic systems. IIUM Press, Kuala Lumpur, pp. 47-51. ISBN 9789674181161
82. Shah, Asadullah and Shaikh, Asadullah (2011) **Soldering iron practice**. In: Understanding basic concept of electrical and electronic systems. IIUM Press, Kuala Lumpur, pp. 52-55. ISBN 9789674181161
83. Shah, Asadullah and Shaikh, Asadullah and Alshaikhli, Imad Fakhri Taha (2011) **Task scheduling**. In: Introduction of computer systems and applications. IIUM Press, Kuala Lumpur, pp. 107-112. ISBN 9789674180850
84. Shah, Asadullah and Shaikh, Asadullah (2011) **Transmission bandwidth efficiency enhancement techniques**. In: Statistical Time Division Multiplexing Architectures and Design. IIUM Press, Kuala Lumpur, pp. 1-4. ISBN 978-967-418-190-1
85. Shah, Asadullah and Shaikh, Asadullah and Alshaikhli, Imad Fakhri Taha (2011) **Windows installation**. In: Introduction of computer systems and applications. IIUM Press, Kuala Lumpur, pp. 87-98. ISBN 9789674180850
86. Shah, Asadullah and Shaikh, Asadullah (2011) **Logical operators and switch statements**. In: C++ Programming: Step by Step. IIUM Press, Kuala Lumpur, pp. 25-31. ISBN 9789674180904
87. Asadullah Shaikh, Uffe Kock Wiil, and Nasrullah Memon. **Evaluation of tools and slicing techniques for efficient verification of UML/OCL class diagrams**. Adv. Soft. Eng., 2011:5:1-5:18, 2011.
88. Asadullah Shaikh, Uffe Kock Wiil, and Nasrullah Memon. **UOST: UML/OCL aggressive slicing technique for efficient verification of models**. In SAM Lecture Notes in Computer Science Volume 6598, 2011.
89. Asadullah Shaikh, Sheeraz Ali, Nasrullah Memon, and Panagiotis Karampelas. **SOA security aspects in web-based architectural design**. In From Sociology to Computing in Social Networks by Springer, pages 415-430. 2010.
90. Asadullah Shaikh, Sheeraz Ali, Muniba Shaikh, and Javed Ahmed. **The Model-Driven Architecture in an Industrial Environment**. In IEEE International Conference on Information and Emerging Technologies (ICIET), pages 1-5. 2010.

91. Asadullah Shaikh, Robert Clarisó, Uffe Kock Wiil, and Nasrullah Memon. **Verification-driven slicing of UML/OCL models.** In ACM Automated Software Engineering, pages 185-194, 2010. Acceptance ratio: 18 percent.
92. Asadullah Shaikh, Ashfaq Ahmed, Nasrullah Memon, and Muniba Shoukat Memon. **Strengths and weaknesses of maturity driven process improvement effort.** In CISIS IEEE Computer Society, pages 481-486, 2009.
93. Asadullah Shaikh, Muniba Shoukat Memon, Nasrullah Memon, and Muhammad Misbahuddin. **The role of service oriented architecture in telemedicine healthcare system.** In CISIS IEEE Computer Society, pages 208-214, 2009.
94. Asadullah Shaikh, Aijaz Soomro, Sheeraz Ali, and Nasrullah Memon. **The Security Aspects in Web-Based Architectural Design Using Service Oriented Architecture.** In IV IEEE Computer Society, pages 461-466, 2009.
95. Asadullah Shaikh, Muhammad Misbahuddin, and Muniba Shoukat Memon. **A system design for a telemedicine health care system.** In IMTIC Springer CCIS Series, pages 295-305, 2008.
96. Muniba Shaikh and Asadullah Shaikh. **The role of model driven architecture in online web-based admission system.** In 8<sup>th</sup> National Research Conference (NRS) proceedings Szabist Islamabad, 2008.

## Scholar Profiles

- Google Scholar Profile <https://scholar.google.com/citations?user=z4CxcgIEAAAAJ&hl=en&oi=ao>
- Publons Profile <https://publons.com/researcher/2176227/asadullah-shaikh>
- DBLP Indexing <https://dblp.uni-trier.de/pers/hd/s/ShaiKh:Asadullah>
- 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

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University Najran University Malaysia  
Tenure January 2014–September 2014

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

Thesis Title Hospital Management Information System(HMIS)

University Najran University Malaysia  
Tenure September 2014–January 2015

Students Ali Ahmed S Qaisi, and Ahwi Hussien Abdullah  
Name

Thesis Title Grab a Taxi

University Najran University Malaysia  
Tenure January 2017–June 2017

---

## 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.

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

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.

### Professional Memberships

- **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]

### Guest Editor of Special Issues

- 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).

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- 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 **Smart Systems with Advanced AI and Learning**. International Journal of Intelligent Engineering Informatics. ESCI Indexed (Web of Science) By Inderscience. Due Date is September 30, 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 4<sup>th</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.

#### Session Chair and Publication Chair

Publication Chair Global Research Conferences (GRaCe) 2020, Kuala Terengganu, Malaysia.

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Publication Chair USAR Series of Conferences 2020, Athens, Greece.  
Session Chair and 5<sup>th</sup> International Conference on Communication, Management and Information Technology (ICCMIT 2019), Vienna, Austria.  
Publication Chair

#### Editorial Board (International)

Editorial Board Member International Journal of Intelligent Engineering Informatics (IJIEI). Inderscience.  
Editorial Board Member Editor of 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).  
Editorial Board Member Sukkur IBA Journal of Computing and Mathematical Sciences (SJCMS).

#### 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

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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 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 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 5<sup>th</sup> International Conference on Data Management, Analytics & Innovation (ICDMAI  
63 2021), India
- Conference International Conference on Pattern Recognition and Intelligent Systems (PRIS  
64 2021), Thailand.
- Conference International Conference on Intelligent Vehicles (ICoIV 2021), China.  
65
- Conference International Symposium on Connected and Autonomous Vehicles (SoCAV 2021),  
66 Singapore.

#### 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.

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Conference 8 International Multi topic conference (IMTIC 2012), March 28-30, 2012

### Journals Reviewing/Editorial Board

- Journal 1 Journal of Computer Methods and Programs in Biomedicine By Elsevier. Impact Factor: 1.862
- Journal 2 International Journal of Advanced Computer Science and Applications (IJACSA). Impact Factor: 1.32
- Journal 3 International Journal of Software Engineering and Knowledge Engineering (IJSEKE). Impact Factor: 0.30
- Journal 4 Greener Journals
- Journal 5 Network Modeling Analysis in Health Informatics and Bioinformatics (NHIB) By Springer
- Journal 6 Sindh University Research Journal (SURJ) University of Sindh Jamshoro, HEC Recognized
- Journal 7 The Mehran University Research Journal of Engineering & Technology, HEC Recognized
- Journal 8 International Journals N&N Global Technology
- Journal 9 International Journal of Computing and Related Technologies (IJCRT). Sindh Madressatul Islam University (SMIU) Karachi, Pakistan
- Journal 10 International Journal of Intelligent Systems Technologies and Applications (IJISTA) by Inderscience Publishers.
- Journal 11 Pakistan Journal of Computer Science and Information Systems (PJCIS).
- Journal 12 Proceedings of the Pakistan Academy of Sciences.
- Journal 13 IEEE Access. Impact Factor: 4.098
- Journal 14 Journal of Ambient Intelligence and Humanized Computing. Impact Factor: 1.910.
- 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

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### 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

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### Events and Given Talks

- 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.

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- 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 L<sup>A</sup>T<sub>E</sub>X 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 L<sup>A</sup>T<sub>E</sub>X at Najran University Saudi Arabia
- 09 September 2015 Getting Started with L<sup>A</sup>T<sub>E</sub>X 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.
2. 351CIS-3 Information System Project Management|(Second Semester 2020/2021)|Theory|3 Credits
3. 345CSS-3 Operational Research|(Second Semester 2020/2021)|Theory|3 Credits
4. 505CS-4 Secure Software Development| (Second Semester 2020/2021)|Theory|4 Credits
5. 440CSS-3 Social, Ethical and Professional Issues|(First Semester 2020/2021)|Theory|3 Credits
6. 345CSS-3 Operational Research|(First Semester 2020/2021)|Theory|3 Credits
7. 505CS-4 Secure Software Development| (First Semester 2020/2021)|Theory|4 Credits
8. 440CSS-3 Social, Ethical and Professional Issues|(Summer Semester 2019/2020)|Theory|3 Credits
9. 470CIS-3 Geographic Information Systems|(Summer Semester 2019/2020)|Theory|3 Credits
10. 351CIS-3 Information System Project Management|(Second Semester 2018/2019)|Theory|3 Credits
11. 241CIS-2 Fundamentals of Information Systems|(Second Semester 2018/2019)|Theory|3 Credits
12. 505CS-4 Secure Software Development| (Second Semester 2018/2019)|4 Credits
13. 345CSS-3 Operational Research|(First Semester 2018/2019)|Theory|3 Credits
14. 342CIS-3 Information System Engineering|(First Semester 2018/2019)|Theory|3 Credits
15. 345CSS-3 Operational Research|(Second Semester 2017/2018)|Theory|3 Credits
16. 351CIS-3 Information System Project Management|(Second Semester 2017/2018)|Theory|3 Credits

17. 345CSS-3 Operational Research|(First Semester 2017/2018)|Theory|3 Credits
18. 351CIS-3 Information System Project Management|(First Semester 2017/2018)|Theory|3 Credits
19. 345CSS-3 Operational Research|(Second Semester 2016/2017)|Theory|3 Credits
20. 345CSS-3 Operational Research|(First Semester 2016/2017)|Theory|3 Credits
21. 342CIS-3 Information System Engineering|(First Semester 2016/2017)|Theory/Lab|3 Credits
22. 235CSS-3 Theory of Computation|(Summer Semester 2015/2016)|Theory|3 Credits
23. 345CSS-3 Operational Research| (Summer Semester 2015/2016)|Theory|3 Credits
24. 342CIS-3 Information System Engineering|(Second Semester 2015/2016)|Theory/Lab|3 Credits
25. 342CSS-3 Software Engineering| (Second Semester 2015/2016)|Theory/Lab|3 Credits
26. 342CIS-3 Information System Engineering|(First Semester 2015/2016)|Theory/Lab|3 Credits
27. 342CSS-3 Software Engineering| (First Semester 2015/2016) | Theory/Lab | 3 Credits
28. 342CIS-3 Information System Engineering| (Second Semester 2014/2015)|Theory/Lab|3 Credits
29. 342CSS-3 Software Engineering|(Second Semester 2014/2015)|Theory/Lab|3 Credits
30. 226CSS-2 UNIX System Environment|(First Semester 2014/2015)|Theory/Lab|2 Credits
31. 342CIS-3 Information System Engineering|(First Semester 2014/2015)|Theory/Lab|3 Credits
32. 226CSS-2 UNIX System Environment|(Summer Semester 2013/2014)|Theory/Lab|2 Credits
33. 324CIS-3 Modern Application Development|(Summer Semester 2013/2014)|Theory/Lab|3 Credits
34. 342CIS-3 Information System Engineering|(Second Semester 2013/2014)|Theory|3 Credits
35. 342CIS-3 Information System Engineering|(First Semester 2013/2014)|Theory/Lab|3 Credits
36. 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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🌐 [www.asadshaikh.com](http://www.asadshaikh.com)



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

### Uffe Kock Wiil

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 Maersk Mc-Kinney Moller Institute,  
 University of Southern Denmark.  
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**Dr. Muhammad Ali Memon**

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**Dr. Fahad Shahbaz Khan**

Assistant Professor

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Linkoping university, Sweden.

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