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Country of Residence: Pakistan

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OBJECTIVE

To contribute to the academic community through teaching, innovative research that advances knowledge and collaborate with other researchers.

GOALS

- ❑ Developing and implementing teaching methodologies and curriculum to enhance student learning in an adaptive technology-inspired learning environment.
- ❑ Mentoring students and junior faculty to help them achieve their academic and career goals.
- ❑ Establish a solid research infrastructure by proactively collaborating with students, peers, industry, and international institutes.
- ❑ Serving as a thought leader and expert in the field, both within and outside the academic community.
- ❑ Seeking external funding to support research and academic initiatives.
- ❑ Publishing research findings in reputable academic journals and presenting at conferences to disseminate knowledge and enhance visibility.

Educational VISTA

1. **Doctor of Philosophy** (Computer Science), Clayton School of Information Technology, **Monash University, Melbourne, Australia, 2006**

Title: A dynamic Integration Model for Decision Support in Disaster Management

2. **Bachelor of Computer Science (Hons), University of Wales, Aberystwyth, United Kingdom, 1994**

PROFESSIONAL PROFILE

Teaching Experience

- ❑ Extensive teaching experience, with diversified learners at undergraduate and graduate levels, – taught variety of Data Science/Computer Science/SE and Information Systems courses.
- ❑ Teaching methodology is, mainly, threefold:
 - i. To present the main concept to the learners; and discuss it in conjunction with (cases) examples /analogies.
 - ii. To present a challenge question to challenge their understanding about the learned concepts.
 - iii. Discussing research articles at graduate level to enhance their understanding about research and implementing complex algorithms.

Invite students to participate in team projects; encourage students to maximize their use of advanced tools in teamwork; and invite distinguished guests from the IT industry, and alumni, to visit and share their experiences and insights with the students.

Academic/Leadership Experience:

- Convening various committees at the university level and having knowledge of the university's statutes and regulations, as well as other governing bodies, along with convening selection boards, is a significant accomplishment that reflects strong leadership skills and a deep commitment to the success of the University.
- Overall, having knowledge and experience in accreditation self-evaluation and serving on an accreditation evaluation team of HEC is a significant accomplishment that demonstrates a commitment to academic excellence, leadership, excellent communication skills, the ability to work collaboratively with others, and a deep understanding of the accreditation process.
- Designing an outcome-based educational curriculum for both Bachelor and Master's programs of Computing at COMSATS University Islamabad is a significant achievement that demonstrates a high level of expertise in educational curriculum design and development. This accomplishment involves multiple tasks, including:
 - ✓ Conducting a comprehensive analysis of the existing curriculum and identifying areas for improvement.
 - ✓ Defining program learning outcomes (PLOs) that align with the university's mission, the needs of the industry, and the requirements of ACM/IEEE Curriculum.
 - ✓ Developing course learning outcomes (CLOs) that align with the PLOs and provide clear directions for teaching and assessment.
 - ✓ Creating assessment rubrics and designing assessment methods to measure the attainment of the CLOs and PLOs.
 - ✓ Developing Course Description Forms (CDFs) that provide detailed information about the course content, learning objectives, and assessment methods.

Adhering to the guidelines of ACM/IEEE Curriculum, which ensure that the curriculum meets international standards and prepares students for global opportunities. Working collaboratively with colleagues to ensure that the curriculum is effective, up-to-date, and meets the needs of students and the industry.

Research & Industrial Experience: Principal Investigator of 97.57 million Project

Medical Imaging and Diagnostics Lab was established at COMSATS University as a constituent part of National Center of Artificial Intelligence (NCAI). It is an HEC funded project with the total outlay of Rs. 97.57 million. As principal Investigator of the project, we developed this Lab as a leading hub of research, innovation, training, and knowledge transfer to a large community in AI. We have developed 3 AI products i.e., *Tashkhees* for Breast cancer screening, *BrainViz* for Brain Tumor detection and screening and *TSS* for tuberculosis detection and screening. All these products are integrated into an AI based *DICOM* viewer and deployed at various hospital in the country and operational. The Lab has published over 20 plus research papers and has won 2 research fundings. One of the goals is to commercialize the research-based products developed at the lab. In this regard 2 startups AI-Care and cypher technologies have been launched and registered with SECP. As part of its efforts the lab has also showcased its products at many national and international events, seminars, and exhibitions. The products developed inside lab have been evaluated by third party in international challenges where these were ranked among high achievers. It has also established collaborative links with industry and academia both locally and internationally.

PROFESSIONAL EXPERIENCE (Total 30 Years of R&D Exp)

Professor

Dept. of Computer Science

COMSATS University, Islamabad, Pakistan.

May 2016 – To Date

- ✓ As the leader of a team of 05 researchers and developers the primary objective is to ensure that the team is working effectively and efficiently towards achieving the goals of the R&D activities and grid operations for international collaboration with CERN in the Alice O2 Project.
- ✓ To conduct research and development along with teaching to bachelor and master students.
- ✓ To Supervise Research Projects/Thesis of the MS/PhD Students
- ✓ Leading Research Group comprising 15 members to conduct research activities in the arena of Data Mining, Machine Learning, Data Science & Data Analytics.
- ✓ As the leader responsible for designing and implementing curriculum and outcome-based education for computing graduates at all campuses of COMSATS, the primary objective is to ensure that students receive high-quality education that prepares them for their future careers.
- ✓ As the leader responsible for Final Year Project committee of 22 members effectively implement standards and set quality parameters for FYP projects. Therefore, ensured that the projects meet the set quality parameters and that the team members have the necessary skills and resources to evaluate projects that meet the expectations of the FYP. Ensured that the team members adhere to the set standards and quality parameters throughout the evaluation process. This includes regular code reviews, adherence to coding and documentation standards, and the use of appropriate software development methodologies.

Principal Investigator

MID Lab, COMSATS University, Islamabad, Pakistan.

Jan 2021 – To Date

As the principal investigator, I was honored to receive funding in the amount of 97.57 million and successfully developed a state-of-the-art medical imaging laboratory. This laboratory was instrumental in the development of three groundbreaking AI-based diagnostic tools for detecting breast cancer, tuberculosis, and brain cancer. These tools have been developed using the latest advancements in artificial intelligence and machine learning and have proven to be highly accurate and effective in the early detection of these diseases. The successful development of these diagnostic tools has been a significant milestone in the field of medical imaging and has contributed significantly to the ongoing efforts to improve healthcare delivery worldwide. The team of 20 members involved in this project comprised highly skilled researchers and developers who worked tirelessly to ensure the success of the project.

Dean

Faculty of Business Administration

COMSATS University, Islamabad, Pakistan.

December 2021 – May 2022

- ✓ As the Dean of Business, I was a pioneer in developing and implementing the Bachelor of Business Analytics and Audit & Taxation programs for business/Finance students at Islamabad Campus. These programs were designed to equip students with the skills and knowledge necessary to succeed in the rapidly growing field of business analytics and Audit.
- ✓ I also played a key role in improving faculty skills by arranging training programs and workshops. These training programs focused on the latest trends and best practices in business analytics, ensuring that our faculty members were equipped with the skills and knowledge needed to effectively teach the program to our students.
- ✓ I played a key role in attracting top students to the Business Faculty. This involved developing and implementing marketing strategies, attending recruitment events, and working closely with the admissions office to ensure that each Department was attracting the best and brightest students.

- ✓ As the Dean of Business, I am proud to have played a key role in securing NBEAC accreditation for the Wah campus. NBEAC accreditation is a rigorous process that involves a comprehensive review of the academic programs, faculty, and facilities of a business school. It is a mark of quality and excellence in business education, and I am pleased that our efforts to achieve this accreditation were successful.

Chairman

Dept. of Computer Science

COMSATS University, Islamabad, Pakistan.

June 2018 – June 2021

- ✓ As chairman of the department of Computer Science provided academic leadership and guidance to the faculty members and students in the department. Develop and implement policies, procedures, and programs that promote the academic goals of the department.
- ✓ Liaise with all other campuses to address the challenges of Computer Science Department.
- ✓ Perform regular operations to identify any issues/inconsistencies in Computer Science Department of all campuses.
- ✓ Manages the faculty members of the department, including recruitment, promotion, tenure, and evaluation.
- ✓ As a department chairman, presiding over meetings of the Board of Studies and DTRC (Departmental Tenure Review Committee) meetings for TTS (Tenure Track System) faculty.

Chief Technologist

COMSATS University, Islamabad, Pakistan.

April 30, 2014 – May 2016

Provided strategic guidance and leadership on the technological direction to COMSATS and its headquarter. Mainly responsible for identifying emerging technologies and trends and developing technology strategy for COMSATS University.

Director

PMAS-Arid Agriculture University, Rawalpindi, Pakistan

University Institute of Information Technology

November 1, 2011 – April 30, 2014

Responsibilities:

- ✓ To provide the initiative and the technical guidance for the improvement of the Bachelors, master's, and PhD programs in Computer Science within the Institute (Staff/faculty Strength 80).
- ✓ Supervises methods of educational activity and administration in effect at the Institute.
- ✓ Assumes responsibility for the overall financial planning of the Institute and for the preparation of the annual budget and submits it to the University Council for review and approval.
- ✓ Offers leadership, coordination, and guidance, develop, refine, and implement Networking technology throughout the University. Cover all the networking policies in the University Data Centre comprising of 10 Members.
- ✓ Builds and maintains procedures and controls for all expenditures of Institute funds in accordance with allocated budget.
- ✓ Oversees the completion and submission of Self-Assessment reports for Quality Enhancement Cell.
- ✓ Assists and participates in all meetings of the Advanced Board of Studies, Academic Council Higher Education Commission (HEC) and other University committees.
- ✓ Provides and/or facilitates professional development opportunities for faculty members and Staff.
- ✓ Offers technical support, coordination, direction, and overall execution plan to develop Campus Management System (CMS) in Oracle 10g for the University. The CMS team consists of half a dozen members.
- ✓ Leading Research Group comprising 15 members to conduct research activities in the arena of Data Mining, Machine Learning and Data Science.

Associate Professor

**Mohammad Ali Jinnah University,
Islamabad, Pakistan
July 15, 2009 – October 31, 2011**

- To Supervise Research Thesis of the MS/PhD Students
- Taught courses at the undergrad and graduate degrees.
- Head of Research Group (CORDE)
- Leading workshops and Seminars
- Participating in the meetings of Academic Bodies

Head R&D/ Assistant Professor

**SZABIST University, Islamabad, Pakistan
June 1, 2007 – July 8, 2009**

Responsibilities:

- To Teach and Conduct Research & Development at SZABIST
- To Organize/Conduct Research Seminars, Conferences, Lectures and Presentations
- To Launch and Coordinate New Academic Programs and Student Research Activities
- To formulate an elaborated research policy for MS/PhD students at SZABIST
- To Supervise Research Thesis of the Students
- Taught courses at the undergrad and graduate levels.
- Conduct Research Methodology Workshop every Semester.

Research Associate

Clayton School of IT, Melbourne, Australia

**Monash University, Australia
2006 – 2007**

- Responsible for assisting with research project, collecting, and analysing data, and reporting findings.

Senior Scientific Officer

**Dr. A. Q Khan Research
Laboratories, Kahuta, Rawalpindi,
Pakistan (KRL)
01, Oct. 1991 – 03, July 2006
KSOF (Subsidiary of KRL)
May 2000 – 03, July 2006**

Chief Technologist**Responsibilities:**

- Performed Executive Level role in the Organization.
- Developing IT strategies for the Organization
- Managing and conducting corporate training for government and private Establishments.
- Development of software for transputer-based system using *ANSI Parallel C*.
- Testing of software written for transputer-based system.
- Squad leader of developers involved in the conception and carrying out of databases in Oracle 8 & 9i and web applications.

ACADAMIC HONORS and AWARDS

- Australian Postgraduate Award for Industry, Australian Research Council, Monash University, Jan. 2004 – April 2006.
- Oracle Certified Professional (OCP) - 2000.
- Awarded Travel Grants (FOUR Times) from Higher Education Commission (HEC) of Pakistan.
- Best Professor of the Year 2010 Award at M. A. Jinnah University.
- COMSATS Research Productivity Award 2014 to Present

SUPERVISIONS

Supervision: MS Thesis (Completed): More than 150 MS Thesis Supervised.

Supervisor: PhD Thesis (Completed):

Muhammad Naeem - April 2014 MAJU (Title: STRUCTURE LEARNING FRAMEWORK BASED ON MUTUAL COHERENCE IN BELIEF NETWORK)

Ijaz Hussian – Nov 2018 COMSATS University (Title: AUTHOR NAME DISAMBUIGHTY USING MACHINE LEARNING)

Tariq Ali - July 2019 Abasyn University (Title: LEARNING MULTI-LABEL DOCUMENT CLASSIFICATION USING SWARM INTELLIGENCE)

Saif Ur Rehman – July 2019 Abasyn University (Title: A Frequent Graph Pattern Mining Approach for Evaluation of Trends in social media)

Bilal Saeed Raja – September 2021 COMSATS University Islamabad (An Integrated Clinical Decision Support System for Disease Classification: A Multi-Objective Genetic Fuzzy Optimization Approach)

Hasna Arshad – September 2021 COMSATS University Islamabad (Challenges in Successful Implementation of eGovernment Projects in Pakistan: A Process Perspective)

Isma UL Hassan – June 2022 COMSATS University Islamabad (Predicting Project Outcomes Leveraging Planning, Cost and Scheduling)

Zafar Mehmood – April 2022 COMSATS University Islamabad (A novel Ensembled Based Wrapper Approach for Improving the Multi-Classification Accuracy on Imbalanced Datasets)

Sofia Kanwal – June 2022 - COMSATS University Islamabad (A Speech recognition system using Machine Learning)

Imran Qureshi – Jan 2023 SZABIST (Performance Improvement of IEEE 802.11 WLAN, IEEE 802.15.4 LR-WPAN, IEEE 802.15.6 WBAN through Contention Window Optimization)

Kabir Bhatti – Jan 2023 SZABIST (Self Adaptive Congestion Control Model for Wireless Sensor Network)

Ayesha Manzoor– April 2023 IIU (Author Name Disambiguation using Deep Learning Techniques)

Mahmood Binyata – April 2023 - COMSATS University Islamabad (How do Social Networks Influence Social Drive: A Comparative Analysis between Pakistani and Jordanians' Youth)

COURSES TAUGHT

Graduate/Undergraduate Courses:

Computer Modeling and Optimization, Data Mining-I & II, Software Engineering-I & II, Machine Learning, Mathematical Modeling and Simulation, Database Systems- I & II, Distributed Database Systems, Object-Oriented Programming (OOP), Data Structures, Business Case Development, System Analysis and Design, Introduction to Computing, Decision Support Systems, Data Warehousing, Business Intelligence, Research Methodology, Distributed Systems, Resource Sharing Architectures, Advanced Operating Systems, Software Quality Systems, Cloud Computing, Distributed Systems, Service Oriented Architecture. Introduction to Data Science.

WORKSHOPS CONDUCTED

- Conducted multiple hands-on workshops (2006-Present) on topics including *Research methodology, Data Analytics, Machine Learning, Data Science* and *OBE*.
- Designed and developed workshop materials and activities to engage learners and promote practical application of concepts.
- Received positive feedback from participants, with an average satisfaction rating of 4.5/5
- Adapted workshops to meet the needs of diverse audiences, including students, professionals, and community members.

PAPERS PRESENTED

- Presented at the 2010 International Conference on Data Mining, Las Vegas, Nevada, USA, July 2010.
- Keynote Speaker at 2nd PASTIC Workshop on Data Mining and Data Warehousing, May 22, 2009.
- Presented at the International Conference on Enterprise Information Systems and Web Technologies (EISWT-08), Orlando, FL. USA, 7-10 July 2008
- Presented at the Australia and New Zealand Systems Conference 2007 (ANZSYS'07), Auckland, New Zealand
- Presented at the 11 APDSI, Conference held in Hong Kong, June 2006.
- Presented at the third International Conference on Hybrid Intelligent Systems, Melbourne, Australia. Dec. 2003.
- Presented at the third International Conference Information & Finance, London, Australia. 18-19 Nov 2013
- Keynote Talk on Big Data: Challenges and Opportunities, at Frontier of Information Technology 2017

PUBLICATIONS

Refereed International Journal Papers

1. Hasna Arshad, Sohail Asghar, Muhammad Asim Noor (2023): A framework for eGovernment project success: an exploratory study using systematic literature review and empirical investigation. *Electron. Gov. an Int. J.* 19(1): 22-54 (2023). **Impact Factor 0.278**
2. Qureshi, I.A., Asghar, S. & Noor, M.A. (2022) FuCWO: a novel fuzzy-based approach of contention window optimization for IEEE-802.15.6 WBANs. *Appl Intell* (2022). <https://doi.org/10.1007/s10489-022-04001-5>. **Impact Factor 5.08**

3. Ayesha Manzoor, Sohail Asghar, Tehmina Amjad (2022): Toward a New Paradigm for Author Name Disambiguation. *IEEE Access* 10: 76055-76068 (2022) **Impact Factor 3.367**
4. Sofia Kanwal, Sohail Asghar (2022). Feature selection enhancement and feature space visualization for speech-based emotion recognition. *PeerJ Comput. Sci.* 8: e1091 (2022), **Impact Factor 2.411**
5. Tehseen Abbasi, Yaser Hafeez, Sohail Asghar (2022): Towards a component-based system model to improve the quality of highly configurable systems. *PeerJ Comput. Sci.* 8: e912 (2022). **Impact Factor 2.411**
6. Sayyida Tabinda Kokab, Sohail Asghar, Shehneela Naz (2022), "Transformer-based deep learning models for the sentiment analysis of social media data" *Array*, Volume 14, 2022, 100157, ISSN 2590-0056, <https://doi.org/10.1016/j.array.2022.100157>.
7. Bhatti, K.A., Asghar, S. (2022). "Progressive Fuzzy PSO-PID Congestion Control Algorithm for WSNs". *Arab J Sci Eng* (2022). <https://doi.org/10.1007/s13369-022-06701-z>. **Impact Factor 2.334**
8. S. Kanwal and S. Asghar, (2021). "Speech Emotion Recognition Using Clustering Based GA-Optimized Feature Set," in *IEEE Access*, vol. 9, pp. 125830-125842, 2021, doi: 10.1109/ACCESS.2021.3111659. **Impact Factor 3.367**
9. S. A. Moqurrab, U. Ayub, A. Anjum, S. Asghar and G. Srivastava, (2021). "An Accurate Deep Learning Model for Clinical Entity Recognition from Clinical Notes," in *IEEE Journal of Biomedical and Health Informatics*, vol. 25, no. 10, pp. 3804-3811, Oct. 2021, doi: 10.1109/JBHI.2021.3099755. **Impact Factor 5.772**
10. Malik M, Niaz, I, Dar, A., Asghar, S. (2021), "An Adaptive SAR Despeckling Method Using Cuckoo Search Algorithm", Vol – 29, DOI - 10.32604/iasc.2021.017437, *Intelligent Automation & Soft Computing*. **Impact Factor 1.647**
11. Ahmad, N., Asghar, S. & Gillani, S.A. (2021) Transfer learning-assisted multi-resolution breast cancer histopathological images classification. *Visual Computer* (2021). <https://doi.org/10.1007/s00371-021-02153-y>, **Impact Factor 2.601**
12. Arshad. H, Asghar. S, and Noor. A (2021), "Developing a reference framework to select software process for eGovernment projects: Evidence from industry", *Global Scientific Journal*, Vol 9, no. 3, ISSN. 2320-9186. **Impact Factor 1.2**. EOI. 10.11216/gsj.2021.03.49524.
13. Z. Mehmood, S. Asghar. (2021). "Mapping Overlapped Samples into Higher Dimension from Complex Multi-class Imbalanced Problems Using SVM ++", *Informatica Journal*, Vol. 32, no 2, Year 2021. **Thomson Reuters Master Journal List Impact Factor: 1.928**
14. Qureshi, I.A., Asghar, S. (2021). A genetic fuzzy contention window optimization approach for IEEE 802.11 WLANs. *Wireless Netw* (2021). <https://doi.org/10.1007/s11276-021-02572-8>. **Thomson Reuters Master Journal List Impact Factor: 2.659**
15. Mehmood, Z., Asghar S., (2021) "Customizing SVM as a base learner with AdaBoost ensemble to learn from multi-class problems: A hybrid approach AdaBoost-MSVM". *Knowledge-Based Systems*, Volume 6 April 2021, 106845. **Thomson Reuters Master Journal List Impact Factor: 5.101**
16. I. U. Hassan and Asghar S, (2021) "A Framework of Software Project Scope Definition Elements: An ISM-DEMATEL Approach," in *IEEE Access*, vol. 9, pp. 26839-26870, 2021, doi: 10.1109/ACCESS.2021.3057099. **Thomson ISI Impact Factor 4.098**
17. Hafeez, Y., Asghar, S., Arif, B. (2020), Role of situational method engineering to improve visual information systems in agile distributed environment, *Multimedia Tools and Applications*, 1-28, DOI: 10.1007/s11042-020-09896-1. **Thomson Reuters Master Journal List Impact Factor: 2.313**
18. Saif Ur Rehman and Sohail Asghar (2020), Online social network trend discovery using frequent subgraph mining, *Social Network Analysis and Mining*, Springer, Volume 10, Issue 1, pp 1-13. **Thomson Reuters Master Journal List Impact Factor: 1.61.**
19. A. Ishaq, S. Asghar and S. A. Gillani, (2020), "Aspect-Based Sentiment Analysis Using a Hybridized Approach Based on CNN and GA," in *IEEE Access*, vol. 8, pp. 135499-135512, 2020, doi: 10.1109/ACCESS.2020.3011802. **Thomson ISI Impact Factor 4.098.**
20. Arshad, H., and Asghar, S., (2020), "An Empirically-Derived Taxonomy of eGovernment Challenges". *IEEE Access*, Vol 8 (1), ISSN 2169-3536. **Thomson ISI Impact Factor 4.098.**

21. Raja, Bilal & Asghar, Sohail. (2020). Disease classification in health care systems with game theory approach. IEEE Access. PP. 1-1. 10.1109/ACCESS.2020.2991016. **Thomson ISI Impact Factor 4.098.**
22. Bilal Saeed Raja and Sohail Asghar (2020), "Beyond the Horizon: A Meticulous Analysis of Clinical Decision-Making Practices" International Journal of Advanced Computer Science and Applications (IJACSA), 11(2), 2020. <http://dx.doi.org/10.14569/IJACSA.2020.0110287> **Indexed by Web of Science**
23. Raja BS, Asghar S. (2020). Using health data repositories for developing clinical system software: A multi-objective fuzzy genetic approach. IET Software. DOI: 10.1049/iet-sen.2019.0261 **Thomson ISI Impact Factor 1.07.**
24. Raja BS, Asghar S. (2020) Multi-Objective Evolutionary Algorithm using Fuzzy Genetic for Disease Prediction. Journal of Medical Imaging and Health Informatics. (**Thomson ISI Impact Factor 0.549**)
25. Ali, S, Hafeez, Y, Asghar, S, (2020) "Aspect Based Requirements Mining Technique to Improve Prioritization Process: Multi Stakeholder Perspective" IET Software Journal, DOI: 10.1049/iet-sen.2019.0332 , Print ISSN 1751-8806, Online ISSN 1751-8814 Available online: 29 April 2020, **Thomson ISI Impact Factor 1.07**
26. Ali, T., Asghar, S. (2019). "Efficient label ordering for improving multilabel chain classifier accuracy". Journal of the National Science Foundation of Sri Lanka, Vol 47 (2), ISSN 1391-4588 **Thomson ISI Impact Factor 0.143.**
27. Mouben Farooq Khan; Sohail Asghar; Manzoor Illahi Tamimi (2019). "Multi-objective Transport System Based on Regression Analysis and Genetic Algorithm using Transport Data".IEEE Access (Volume:), Page(s): 71013 – 71037, Electronic ISSN: 2169-3536, DOI: 10.1109/ACCESS.2019.2918217, Electronic ISSN: 2169-3536, **Thomson ISI Impact Factor 4.098..**
28. Tahir, M., Asghar, S., Manzoor, A., and Noor, M. (2019). "A Classification Model for Class Imbalance Dataset Using Genetic Programming ". IEEE Access (Volume: 7), Page(s): 71013 – 71037, Electronic ISSN: 2169-3536, DOI: 10.1109/ACCESS.2019.2915611. Electronic ISSN: 2169-3536, **Thomson ISI Impact Factor 4.098.**
29. Hussain, I., Asghar, S. (2019) "Incremental author name disambiguation using author profile models and 2 self-citations". The Turkish Journal of Electrical and Computer Sciences. 27(5), 3665-3681. ISSN: 1300-0632, **Thomson ISI Impact Factor 0.625.**
30. Rehman, S., Asghar, S. (2019). "A-RAFF: A Ranked Frequent FP-Growth Subgraph Pattern Discovery Approach" Journal of Internet Technology. Vol. 2, Issue. 2, Thomson **ISI Impact Factor 1.301**
31. Nawaz, A., Asghar, S. & Naqvi, S.H.A. (2018). A segregational approach for determining aspect sentiments in social media analysis. Journal of Supercomputing (2018). <https://doi.org/10.1007/s11227-018-2664-3>, ISSN: 0920-8542 (Print) 1573-0484 (Online), **Thomson ISI Impact Factor 1.53**
32. Rehman, S., Asghar, S., Fong, S. (2018). "Optimized and frequent subgraphs: How are they related?" IEEE Access. Vol.6, Issue-1, pp. 37237-37249 **Thomson ISI Impact Factor 3.557.**
33. Ijaz, S., Ahmad F., Asghar S., Alam, M. (2018) "Vector Based Genetic Algorithm (VBGA) to Optimize Predictive Analysis in Network Security ". Applied Intelligence, May 2018, Volume 48, [Issue 5](#), pp 1086–1096 <https://doi.org/10.1007/s10489-017-1026-9>, PP 1-11, ISSN: 0924-669X Springer US, **Thomson ISI Impact Factor: 1.983**
34. Hussain, I., Asghar, S. (2018) "Author Name Disambiguation by Exploiting Graph Structural Clustering and Hybrid Similarity". Arab Journal for Sci Eng (2018). December 2018, Volume 43, [Issue 12](#), pp 7421–7437. <https://doi.org/10.1007/s13369-018-3099-0>. **Thomson ISI Impact Factor: 1.092**
35. Hussain, I., Asghar, S. (2018) "DISC: Disambiguating Homonyms using Graph Structural Clustering", Journal of Information Science. ISSN: 0165-5515, <https://doi.org/10.1177/0165551518761011> **Thomson ISI Impact Factor: 1.372**
36. Hussain, I., Asghar, S. (2018) "Resolving namesakes using the author's social network", The Turkish Journal of Electrical and Computer Sciences. ISSN: 1300-0632. Year 2018, Volume 26, Issue 1, Pages 554 – 569, Thomson **ISI Impact Factor: 0.578**

37. Hussain, I., Asghar, S. (2017). A survey of author name disambiguation techniques: 2010–2016. The Knowledge Engineering Review, Vol 32. Doi: 10.1017/S0269888917000182. ISSN: 0269-8889 (Print), 1469-8005 (Online) Thomson **ISI Impact Factor: 1.51**
38. Ali, T., Asghar S. (2017) "Multi-label Scientific Document Classification", *Journal of Internet Technology*, vol. 19, no. 6, pp. 1707-1716, Nov. 2018. **Thomson ISI Impact Factor: 1.380**
39. Bahjat Fatima, Huma Ramzan, Sohail Asghar, (2016) "Session identification techniques used in web usage mining: A systematic mapping of scholarly literature", *Online Information Review*, Vol. 40 Issue: 7, pp.1033-1053, <https://doi.org/10.1108/OIR-08-2015-0274>
40. Rehman U. N., Asghar, S., Usman, M., Fong, S., Cho, K., Park. Y (2016). High Level Classification Recommended Decision Making for Autonomous Ground Vehicle (AGV). *Journal of Computational and Theoretical Nanoscience*, 13(7):4284-4292, July 2016, ISSN: 1546-1955, American Scientific Publishers, **Thomson ISI Impact Factor: 1.34.**
41. Muhammad Usman, M. Usman and Sohail Asgar (2016), "A fuzzy-based methodology for accurate classification and prediction in large data sets". *Journal of Intelligent & Fuzzy Systems* vol. 31, no. 3, pp. 1759-1768, 2016. DOI:10.3233/JIFS-152176, **Thomson ISI Impact Factor: 1.8**
42. Hussain, T., Asghar, S. (2016). "Chi-Squar Based Hierarchical Agglomerative Clustering for Web Sessionization". *Journal of the National Science Foundation of Sri Lanka* 2016 44 (2): 211-222 DOI: <http://dx.doi.org/10.4038/jnsfsr.v44i2.8002>, ISSN 1391-4588 **Thomson ISI Impact Factor 0.143.**
43. Hafeez, Y., Asghar, S., Ahmad, K., and Hussain, A. (2016). "A Taxonomy to support Team Coordination in Global Software Engineering Environment" *Journal of Computational and Theoretical Nanoscience*, Vol. 13, 3238–3247, 2016, ISSN:1546-1955, American Scientific Publishers, **Thomson ISI Impact Factor: 1.34.**
44. Rehman, S., Asghar, S., Fong, S., Zhuang, Y. (2014). "Performance Evaluation of Frequent Subgraph Discovery Techniques" *Mathematical Problems in Engineering*. Vol. 2014, Article ID 869198, 6 pages, 2014. doi:10.1155/2014/869198. **Thomson ISI Impact Factor 1.383.**
45. Naeem, M. and Asghar, S. (2014). "A Parameter Free BNN Discriminant Function for Optimal Model Complexity Versus Goodness of Data Fitting" *Journal of Applied Research and Technology (JART)* June 2014, Vol. 12 Issues. 4, Pp 734- 749, ISSN: 1665-6423. **Thomson ISI Impact Factor 0.447.**
46. Faisal Shahzad, Sohail Asghar, and Khalid Hussain. "A Fuzzy Based Scheme for Sanitizing Sensitive Sequential Patterns" *The International Arab Journal of Information Technology (IAJIT)*, Volume 12, No. 1, January 2015, Pp. 60 - 68 ISSN: 1683-3198 **Thomson ISI Impact Factor: 0.39.**
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PROFESSIONAL SERVICES

- ❑ Track Chair (Advanced Analytics), Frontiers of Information Technology Conference, 2015 -2021
- ❑ PhD Symposium Chair, FIT 2015 held in Islamabad, Pakistan, in Dec. 14-16, 2015
- ❑ Member, National Curriculum Revision Committee – Information Technology of HEC - Pakistan
- ❑ Editorial member of Decision Sciences Journal, 2006
- ❑ Member, Editorial Review Board of Scientific Journals International (SJI), 2007
- ❑ Program Committee Member of International Conference on Information and Automation, December 2006, Colombo, Sri Lanka
- ❑ Review Committee Member of CIMCA06 & IAWTIC06
- ❑ Review Committee Member of Australia, New Zealand Systems Conference, 2007
- ❑ Review Committee Member of International Conference on Information and Automation, 15-18 December 2005 – BMICH, Colombo, Sri Lanka
- ❑ Review Committee Member of INMIC 2009, Islamabad, Pakistan.
- ❑ Review Committee Member of the International Conference on New Trends in Information Science and Service Science, May 2010, Korea.
- ❑ Member Selection Board, PMAS-Arid Agriculture University, Rawalpindi and BZ Multan University.
- ❑ Conference Chair of the 2nd International Conference on Data Mining and Intelligent Information Technology Applications. Nov 28 – Dec. 02, 2010, South Korea.
- ❑ Editor, International Journal of Information Processing and Management (IJIPM)
- ❑ General Chair, Third International Conference on the Networked Digital Technologies (NDT 2011) July 11-13, 2011, University of Macau, China, (<http://www.dirf.org/ndt>)
- ❑ Review Committee Member of the IEEE International Conference on Emerging Technologies 2011 (ICET 2011) held in Islamabad, Pakistan, on September 5-6, 2011.
- ❑ Review Committee Member of the 5th International Conference on Software, Knowledge, Information, Industrial Management and Applications (SKIMA 2011) held in Italy, 8 – 11 Sep. 2011

- ❑ Review Committee Member of the IEEE INMIC 2012 held in Islamabad, Pakistan, in Dec. 11-12, 2012
- ❑ Review Committee Member & Organizer of the FIT 2014, 2015 & 2016 held in Islamabad, Pakistan, in Dec. every Year.
- ❑ Member BOS, BOF, BASAR & Academic Council, COMSATS, Islamabad.
- ❑ Convenor Selection Board COMSATS University
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- ❑ **Member (Computer Science Expert)** of the Higher Education Commission Committee for awarding Travel grants to academician from all Pakistan Universities (From 2011-2014).
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