



**PROF. DR. SOHAIL ASGHAR**

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## **OBJECTIVE**

As the In-Charge of Islamabad Campus of COMSATS University Islamabad and Dean of the faculty of Information Sciences and Technology, with a wealth of experience in implementing and navigating complex policies, my objective is to leverage my proven leadership skills to drive academic excellence, research innovation, and foster an environment of continuous improvement. Committed to upholding the principles of the national education framework, I aim to lead with strategic vision, ensuring the institution growth, compliance, and contribution to societal progress.

## **GOALS**

### **Strategic Objectives for the Leadership Position**

#### ***Academic Excellence***

- Innovate teaching methods and curriculum per Higher Education Commission (HEC) policies.
- Mentor students and faculty aligning with educational goals.

#### ***Research Advancement***

- Establish robust research infrastructure.
- Proactively collaborate with students, peers, industry, and international institutes.
- Ensure alignment with HEC's guidelines on research and doctoral programs.

#### ***Thought Leadership and Expertise***

- Academic thought leader nationally and internationally.
- Contribute to university's reputation.
- Adhere to HEC's standards of academic excellence.

#### ***Resource Mobilization***

- Seek external funding for research and academic programs.
- Adhere to HEC financial guidelines.
- Ensure sustainable university growth.

#### ***Research Dissemination and Visibility***

- Publish research in reputable journals.
- Ensure compliance with HEC publication standards.
- Present research outcomes at conferences.

- Disseminate knowledge and enhance university visibility.
- Contribute to national and global academic discourse.

### *Aspirations in Academia and Research*

In my capacity as an academician and researcher, I aspire to achieve the following objectives:

- Adaptive teaching methods implementation
- Student and junior faculty mentoring
- Dynamic research environment fostering
- Thought leadership for institutional reputation enhancement
- **Pursuing external funding for sustainable growth**
- Research publication and findings presentation
- Conducting high-impact research
- Continuous professional development engagement
- Academic community contribution through peer reviewing and editorial roles
- Institutional governance participation for development and strategic direction
- Promotion of research, innovation, and critical thinking culture
- Ethical conduct demonstration in research for academic integrity

### **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**

#### *Administrative Experience*

*COMSATS University Islamabad Campus In-charge ship Highlights  
August 2023- Present*

- Managed 3.186 billion budget for Islamabad campus.
  - Increased revenue by introduction of new programs and increased student intake
  - Attracted funds and sponsors to alleviate CUI's financial burden.
  - Uplifting of Campus infrastructure through collaboration with industry and reducing financial burden on the university
  - Expedited pending Procurement tenders and payments
  - Adoption of E-Procurement at Islamabad campus
  - Focus on utilizing the available resources and teams instead of outsourcing the tasks
  - Upgradation of Student Affairs for facilitation of students and enhanced experience
- Led multiple consecutive Selection Boards.
  - Selection Boards of Faculty & Staff 2022 and 2025

- Executed smooth promotion processes for SG & OG employees.
  - Convener Staff grade promotion and Time Scale Committee
- Orchestrated FIT—an international IT conference for nineteen years.
  - General Chair for FIT 23-25
- Optimized day-to-day campus operations for enhanced efficiency.
  - Digitization of the departments such as HR, Services, Maintenance, Transport, Medical
- Formulated policies for conducive work environment.
  - Reformed Proctorial Board
  - KPIs for each department for clear goals and plans
- Achieved admissions success with targeted policy
  - Strategic Digital Marketing campaigning through Social Media platforms
- Guided smooth implementation of national policies, including HEC's GEP-2023.
- Conducted targeted training for comprehensive compliance.
  - Training of Staff through In-house facility of FDA and invited speakers from industry
- Managed launch of new graduate programs, aligning with regulatory guidelines.
  - MS (Artificial Intelligence)
- Enhanced program-level criteria alignment with GEP-2023 standards.
  - OBE based curriculum for Undergraduate and Graduate programs
- Established robust governance for doctoral research systems.
  - Restructuring of GAC for effective mentoring
- Balanced university autonomy within Charter/Act framework, ensuring GEP-2023 compliance.
- Fostered collaborations at local, national, and international levels for graduate programs.
- Ensured compliance with HEC policies, taking corrective actions against violations.
- Facilitated effective communication channels among university stakeholders for policy changes.
- Online branding and Marketing: Successful Spring 2024 admission campaign.
  - ✓ 8.2K% increase in total reach.
  - ✓ 234.7% increase in organic reach.
  - ✓ Instagram metrics: 3.7(k)% total reach, 176.7% profile visits, 800 new followers.
  - ✓ SEO impact: 19% increase in overall BS program admissions.
  - ✓ New program success: 101 applications for BS (International Relations), BS(Electronics) applications increased from 8 to 36.
  - ✓ Overall objectives met: Increased admissions, improved SEO, significant social media growth, enhanced program awareness.
- **Designed & Developed OBE based Curriculum for BS (CS, SE, CYS, AI, DS) as per HEC 23 policy.**
- Introducing new programs:
  - BS(Economics Data Analytics) 2024
  - BS(Mathematics Data Science) 2024.

- **Admissions- Remarkable Success**

Increased Applications:

- Well-thought-out admission policy
- Significant increase compared to previous sessions.

Targeted Social Media Campaign:

- Introduced campaign resulting in a 20% increase.
- Equivalent to 1000 more applications than previous years.

Significant Increase in Admitted Students:

- Launch of new programs - BS IR and BS Electronics & Computing.
- Admitted 52 and 118 students, respectively.

## **Contributions to Higher Education Commission :**

### **Member, HEC / NCEAC Accreditation Council:**

- Shaped and upheld accreditation standards.
- Involved strategically in decision-making.

### **Accreditation Visits of Universities:**

- Directly engaged in on-site visits.
- Evaluated institutional practices for improvement.

### **Designed Evaluation Forms and Metrics for NCEAC Accreditation:**

- Pioneered modernized evaluation tools.
- Introduced metrics aligning with educational paradigms.

### **Membership in HEC Committee for NOC Granting:**

- Strategically involved in new university establishment.
- Contributed to the regulatory framework for high educational standards.

### **Designed and Implemented OBE Based Curriculum at CUI (Computer Science):**

- Architected outcomes-driven curriculum structures.
- Focused on enhancing quality and relevance in Computer Science education.

### **Made Significant Contributions through Medical Imaging and Diagnostics Lab:**

- Budget of 97.57 million
- Spearheaded projects bridging academia and industry.
- Nurtured a research culture, mentored MS/PhD students.
- Organized impactful academic events.
- Cultivated an environment for productive collaboration and knowledge exchange.

## ***Supplementary Academic and Leadership Engagements***

### **University-level Leadership:**

- Convened committees, led selection boards.
- In-depth knowledge of statutes and regulations.

### **Accreditation Experience:**

- Experienced in accreditation self-evaluation.
- Served on HEC accreditation evaluation team.

### **Curriculum Design Expertise:**

- Designed outcome-based curriculum for Computing programs.
- Aligned learning outcomes with mission, industry needs, ACM/IEEE requirements.
- Developed clear course objectives and assessment methods.
- Ensured adherence to ACM/IEEE Curriculum guidelines.
- Collaborated for an effective, up-to-date curriculum meeting global standards.

# Pedagogical Endeavors

## *Instructional Background*

### **Teaching Experience:**

- Extensive expertise in Data Science, Computer Science, Software Engineering, and Information Systems.
- Effective engagement with diverse audiences at both undergraduate and graduate levels.

### **Teaching Methodology:**

Threefold approach: Core concept introduction, challenging questions, graduate-level research discussions.

### **Collaborative Projects:**

- Involve students, foster teamwork.
- Maximize advanced tool utilization.

### **Student Engagement:**

- Encourage team project participation.
- Guide effective tool use.

### **Industry Insights:**

- Arrange sessions with industry guests, alumni.
- Provide professional insights and experiences for students.

## **Research and Industry Proficiency**

***Project: Medical Imaging and Diagnostics Lab***  
***Jan 2021 – To Date***

***My Role: Principal Investigator***

***Project Value: 97.57 Million***

### **Lab Establishment:**

- NCAI component, HEC-funded project (Rs. 97.57 million).

### **Achievements:**

- Developed AI based tools for breast cancer, tuberculosis, brain cancer.
- AI products: Tashkhees (Breast Cancer), BrainViz (Brain Tumor), TSS (Tuberculosis).
- Integrated into AI-based DICOM viewer, operational in hospitals nationwide.

### **Research and Publications:**

- 20+ research papers, secured two research fundings.

### **Commercialization:**

- Launched startups AI-Care and Cypher Technologies, SECP registered.

### **Recognition and Collaboration:**

- Participated in national, international events.

- Products consistently high-ranking in international challenges.
- Established collaborative ties locally and internationally.

## **PROFESSIONAL EXPERIENCE (Total 30 Years)**

### **Dean**

*Faculty of Information Sciences and Technology*

*COMSATS University, Islamabad*

*February 2024 – To Date*

#### **Academic Leadership:**

- Led (07) Computer Science Department(s).
- Developed policies and programs.

#### **Campus Collaboration:**

- Addressed challenges across campuses.
- Fostered cohesive approaches.

#### **Operations Oversight:**

- Conducted regular operations.
- Addressed issues in the department.

#### **Faculty Management:**

- Managed faculty recruitment and evaluation.
- Oversaw promotion and tenure processes.

#### **Board Meetings:**

- Presided over University Academic meetings.

#### **Curriculum Design and Improvement:**

- Organized and Conducted training of HoDs on OCE based Curriculum
- Addressed challenges of campuses and faculty regarding the curriculum.
- Upgradation of the curriculum for Undergraduate and Postgraduate to cater the evolving need and aligning with the HEC guidelines.

### **Dean**

*Faculty of Business Administration*

*COMSATS University, Islamabad*

*December 2021 – May 2022*

#### **Program Implementation:**

- Introduced Business Analytics and Audit & Taxation programs.
- Tailored programs for business and finance student success.

#### **Faculty Development:**

- Organized training programs for faculty.
- Ensured faculty proficiency in teaching business analytics.

#### **Student Recruitment:**

- Implemented effective marketing strategies.
- Collaborated for recruitment events and top student attraction.
- NBEAC Accreditation:

- Secured accreditation for Wah campus.
- Demonstrated quality and excellence in business education.

### **Chairman**

*Faculty of Information Sciences and Technology*

*COMSATS University, Islamabad, Pakistan*

*June 2018 – June 2021*

#### **Academic Leadership:**

- Led Computer Science Department.
- Developed policies and programs.

#### **Campus Collaboration:**

- Addressed challenges across campuses.
- Fostered cohesive approaches.

#### **Operations Oversight:**

- Conducted regular operations.
- Addressed issues in the department.

#### **Faculty Management:**

- Managed faculty recruitment and evaluation.
- Oversaw promotion and tenure processes.

#### **Board Meetings:**

- Presided over Board of Studies meetings.
- Led Departmental Tenure Review Committee.

### **Chief Technologist**

*COMSATS University, Islamabad, Pakistan.*

*April 30, 2014 – May 2016*

#### **Strategic Guidance:**

- Provided strategic leadership.
- Guided technological direction.

#### **Trend Identification:**

- Identified emerging technologies.
- Recognized industry trends.

#### **Technology Strategy:**

- Crafted technology strategy.
- Aligned with COMSATS University's goals.

### **Director**

*PMAS-Arid Agriculture University, Rawalpindi, Pakistan*

*University Institute of Information Technology November 1, 2011 – April 30, 2014*

#### **Program Enhancement:**

- Enhanced Computer Science programs.
- Managed 80 staff/faculty.

**Educational Supervision:**

- Supervised educational activities.
- Ensured effective administration.

**Financial Planning:**

- Prepared annual budgets.
- Presented to University Council.

**Networking Leadership:**

- Led Networking technology implementation.
- Managed policies in Data Centre.

**Budget Controls:**

- Controlled fund expenditures.
- Aligned with allocated budget.

**Quality Enhancement:**

- Oversaw Self-Assessment reports.
- Managed Quality Enhancement Cell.

**Committee Participation:**

- Engaged in University meetings.
- Contributed to HEC and committees.

**Professional Development:**

- Provided development opportunities.
- Facilitated faculty and staff.

**CMS Development:**

- Executed Campus Management System.
- Led Oracle 10g CMS team.

**Research Leadership:**

- Led Research Group of 15.
- Conducted activities in Data Mining, Machine Learning, and Data Science.

**Associate Professor**

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

In my capacity within this role, I undertook various responsibilities and played a key role in:

1. Supervised research theses for MS/PhD students.
2. Taught courses at both undergraduate and graduate levels.
3. Headed the Research Group (CORDE).
4. Led workshops and seminars.
5. Participated in meetings of academic bodies.

**Head R&D/ Assistant Professor**

*SZABIST University, Islamabad, Pakistan*



*June 1, 2007 – July 8, 2009*

**Teaching & R&D:**

- Taught undergraduate and graduate courses at SZABIST.
- Spearheaded research and development efforts.

**Event Organization:**

- Organized research events.
- Conducted seminars, conferences, lectures, and presentations.

**Program Launch:**

- Launched new academic programs.
- Coordinated student research.

**Research Policy:**

- Formulated MS/PhD research policy.
- Supervised student theses.

**Academic Instruction:**

- Taught at undergraduate and graduate levels.
- Conducted Research Methodology Workshops.

**Workshop Conduct:**

- Conducted workshops every semester.

**Research Associate**

Monash University, Australia

Clayton School of IT, Melbourne, Australia

2006 – 2007

In this role, I Assisted in research projects, including data collection, analysis, and reporting of findings.

**Senior Scientific Officer**

Dr. A. Q Khan Research Laboratories, Kahuta, Rawalpindi, Pakistan (KRL)

01, Oct. 1991 – 03, July 2006

KSOFT (Subsidiary of KRL) May 2000 – 03, July 2006

**Responsibilities Undertaken:**

1. Executed an executive-level role within the organization.
2. Developed IT strategies for the organization.
3. Managed and conducted corporate training for government and private establishments.
4. Developed software for a transputer-based system using ANSI Parallel C.
5. Tested software written for the transputer-based system.
6. Served as a squad leader for developers involved in the conception and implementation 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
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## 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 DISAMBUIGTHY 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*)

Gulmina Rextina – December 2024 - SZABIST Islamabad (*Dyslexia diagnosis using supervised machine learning techniques*)

Muhammad Tahir Akram – December 2024 - COMSATS University Islamabad (*Layer Level Multi-Model Fusion Strategy for Segmentation of Brain Tumors*)

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## **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-Orient 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**

- Frequently delivers invited talks and participates in panel discussions at both national and international forums.
- 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

1. Rextina, G., Asghar, S., Stockman, T., & Khan, A. (2024). Serious Game for Dyslexia Screening: Design and Verification. *International Journal of Human-Computer Interaction*, 1–17. <https://doi.org/10.1080/10447318.2024.2352205> Impact Factor 4.17
2. Bhatti, K.A., Asghar, S. and Naz, S., 2024. Multi-objective fuzzy krill herd congestion control algorithm for WSN. *Multimedia Tools and Applications*, 83(1), pp.2093-2121. <https://doi.org/10.1007/s11042-023-15200-8> Impact Factor 2.577
3. Akram, M.T., Asghar, S. and Shahid, A.R., 2023. Effective data augmentation for brain tumor segmentation. *International Journal of Imaging Systems and Technology*. Impact Factor 3.3
4. Qureshi, I.A. and Asghar, S., 2023. A systematic review of the IEEE-802.11 standard's enhancements and limitations. *Wireless Personal Communications*, 131(4), pp.2539-2572. <https://doi.org/10.1007/s11277-023-10553-7> Impact Factor 1.671
5. Sumra, M., Asghar, S., Khan, K.S., Fernández-Luna, J.M., Huete, J.F. and Bueno-Cavanillas, A., 2023. Smartphone apps for domestic violence prevention: a systematic review. *International journal of environmental research and public health*, 20(7), p.5246. <https://doi.org/10.3390/ijerph20075246> Impact Factor 2.101
6. 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
7. 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
8. 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
9. 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
10. 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
11. 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
12. 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
13. Moqurrah, U. Ayub, A. Anjum, S. Asghar and G. Srivastava, (2021). "An Accurate Deep Learning

Mode 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**

14. 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**
15. 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**
16. 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.
17. 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**
18. 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**
19. 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**
20. 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**
21. 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**
22. 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**.
23. 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**.
24. 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**.
25. 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**.

26. 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**
27. 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.**
28. 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**)
29. 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**
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31. Mubeen 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..**
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34. 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**
35. 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**
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## PROFESSIONAL SERVICES

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- ❑ General Chair Frontiers of Information Technology Conference, 2023-To Date
- ❑ 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 (ICET2011) 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
- ❑ Member BOS, BOF, BASAR & Academic Council, COMSATS, Islamabad.
- ❑ Convenor Selection Board COMSATS University
- ❑ Member, Incubator Advisory Board and ORIC Focal Person of CUI
- ❑ **Member (Computer Science Expert)** of the Higher Education Commission Committee for awarding

Travelgrants to academician from all Pakistan Universities (From 2011-2014).

- *Associate Editor of International Journal: Reviews of Computer Engineering Studies*

## **P**ROFESSIONAL **M**EMBERSHIPS

**(I) Senior Member IEEE (II) Member Australian Computer Society (ACS) (III) HEC Approved Supervisor**