

Professor Dr. Syed Asif Ali

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PERSONAL INFORMATION

I am currently working as Professor/ Dean Information Technology at Sindh Madressatul Islam University Karachi, Pakistan a public sector University. I am an approved member of National Curriculum Revision Committee (NCRC) Computer Science & National Computing Education Accreditation Council (NCEAC). I am member of various International and national higher academic boards of different universities/organization. My research interest includes Artificial Intelligence, software Engineering, ICT for Special Needs Persons (SNP) and digital social networks.

ACHIEVEMENTS

- **PATENTS/COPYRIGHTS:** Literary work Computer Software entitled Use of Information and Communication Technology (ICT)/ Computer Science for Special People, Sindh, Karachi, Pakistan, is registered patents/copyright in the year 1998, Registration N0: 35297.
- **Living Legend Excellence Award:** Received Living Legend Excellence Award from Mr. Nisar Ahmed Khuhro, the Senior Minister Food & Parliamentary Affairs, on research work carried out for special needs people, organized by Ideal Autonetics (PVT) Limited.

KEY ACHIEVEMENTS AT SINDH MADRESSATUL ISLAM UNIVERSITY

1. **Service Excellence Award:** Received Service Excellence award from Honorable Vice Chancellor Sindh Madsressatul Islam University, Karachi, Pakistan, **2017**.
2. **Letter of Appreciation:**
 - a. Received appreciation letter No. SMIU/AL-SAA/2015-541 dated May 5, **2015** from competent authority of Sindh Madressatul Islam University.
 - b. Received appreciation letter No. SMIU/AL-SAA/2013-644 dated June 5, **2013** from competent authority of Sindh Madressatul Islam University.
 - c. Received appreciation letter No. SMIU/AL-SAA/2012-1059 dated December 20, **2012** from competent authority of Sindh Madressatul Islam University.
3. **Accreditation of Bachelor Programs:** Successfully done accreditation of following bachelor degree programs of Computer Science at Sindh Madsressatul Islam University, Karachi, Pakistan.
 - a. Batch 2012-2013
 - b. Batch 2014 (Fall)-2015 (Fall/Spring)
4. **Establishment of New Departments:** Two new Departments (Artificial Intelligence & Mathematical Sciences and Software Engineering) were established in Faculty of Information Technology
5. **Approved Ph.D. Program:** Approved following five Ph.D. programs, by Higher Education Commission (HEC) of Pakistan at Sindh Madsressatul Islam University, Karachi
 - i. Computer Science
 - ii. Artificial Intelligence
 - iii. Mathematics
 - iv. Environmental Science
 - v. Media Studies
6. **(In Pakistan Sindh Madressatul Islam is the First Public Sector University offering Ph.D. in Artificial Intelligence.)**
7. **Approval of Software Engineering Program:** Bachelor of Science Software Engineering program has been approved by Academic Council of Sindh Madsressatul Islam University, Karachi 2020.
8. **Approval of Mathematic Program:** Bachelor/Master of Science Mathematic program has been approved by Academic Council of Sindh Madressatul Islam University, Karachi 2020.
9. **Approval of three new Bachelor programs:** Bachelor in Cyber Security, Data Science & Information Technology Spring 2022.
10. **Launched First International Journal:** Launched successfully the first International Journal, **International Journal of Computing and Related Technology (IJCRT)** in July 2017, from Faculty of Information Technology, Sindh Madsressatul Islam University, Karachi, Pakistan as an Editor-in-Chief, now the Journal is in Y category in Higher Education Commission (HEC) Record.
11. Served as an Editor-in-Chief of **Journal of Social Science and Media Studies (JOSSAMS)** from 2017-2020.
12. **First International IT Conference:** Organized first International Conference, International Conference on Computing and Related Technologies 2017.

ACADEMIC QUALIFICATIONS

2008 – 2011 University of Karachi| Karachi, Pakistan

PhD: Computer Science

Supervisor: Professor S.M.Aqil Burney

Thesis Title: **Artificial Intelligence Techniques in Special Education Using Information Technology**

PhD Country Directory (PCD) serial No: **8194**

Doctoral Research

In my thesis, I have shown how AI (Artificial Intelligence) well-known technique can be used as better solution for Special Needs People (Blinds & Deaf). During the research work details study is done on Braille Literacy (A language for Blinds people) and Sign Literacy (A language for Deaf people) to understand these literacy systems which help me in development of software application.

PATENTS/COPYRIGHTS: Literary work Computer Software entitled Use of Information and Communication Technology (ICT)/ Computer Science for Special People, Sindh, Karachi, Pakistan, is registered patents/copyright Registration NO: 35297.

2003 – 2005 University of Karachi | Karachi, Pakistan

MIBM: Master in Business and Industrial Mathematics, Department of Mathematics

1997 – 1999 University of Karachi | Karachi, Pakistan

MCS: Master of Computer Science, Department of Computer Science

1994 – 1997 University of Karachi | Karachi, Pakistan

M.Sc.: Master in Organic Chemistry, Department of Chemistry

1991 – 1992 University of Karachi | Karachi, Pakistan

BSc: Bachelor of Science

Chemistry, Physics and Mathematics

1988 – 1989 Higher Secondary Certificate | Board of Intermediate Education Karachi, Pakistan

H.S.S : Higher Secondary Certificate, Chemistry, Physics and Mathematics

1986 – 1987 Secondary School Certificate | Board of Secondary Education Karachi, Pakistan

S.S.C. : Secondary School Certificate, Chemistry, Physics & Mathematics & Biology

EMPLOYMENT HISTORY

12/2012 – Current | Sindh Madsressatul Islam University, Karachi, Pakistan

Current Position

- Administrative position Dean, Faculty of Information Technology & Additional charge as Dean Sciences.
- Academic position working as a Professor within Department of Artificial Intelligence & Mathematical Sciences



A. ADMINISTRATION POSITION

a. Vice Chancellor (Acting) | Sindh Madsressatul Islam University, Karachi, Pakistan

- 2017:** Reference to letter No.SMIU/CH-VCO/2017-02 dated January 2,2017 competent authority gave honor to look after the routine affairs of the office of the Vice Chancellor w.e.f. 03-01-2017 to 15-01-2017.
- 2016:** Reference to letter No.SMIU/CHARGE/2016-175 Governor Sindh/Chancellor SMIU's letter No.GS/20-1/2012/NOC(SO-I)/1119 Date October 5,2016 took charge of acting Vice Chancellor w.e.f. 09-11-2016 to 20-11-2016.
- 2016:** Reference to letter No.SMIU/CHARGE/2016-102, Governor Sindh/Chancellor SMIU's letter No.GS/20-1/2012(SO-I)/2012/NOC/(S-I)/817 Date June 3,2016 took charge of acting Vice Chancellor w.e.f. 14-07-2016 to 06-08-2016.
- 2014:** Reference to letter No.SMIU/CH-VCO/2014-1035, Governor Sindh/Chancellor SMIU's letter No.GS/20-1/2012(SO-I)/1095 Date September 5,2014 took charge of acting Vice Chancellor w.e.f. 15-10-2014 to 31-10-2014.

b. Dean Faculty of Information Technology | Sindh Madsressatul Islam University, Karachi, Pakistan

- Reference No.GS/20-1/2014(SO-I): In exercise of the power under section2(2) of the first Statutes of Sindh Madressatul Islam Act 2011, the Honorable Governor Sindh/Chancellor appointed as Dean Faculty of Information Technology for a period of (03) three years No.GS/20-1/2014(SO-I)1045 year 2015-2018.
- Reference No.SO(U) U & B/ SMIU/14-4/2018/268: In exercise of the power under section2(2) of the first Statutes of Sindh Madressatul Islam Act 2011, as amended by Sindh Universities and Institutes Laws (Amendment) Act 2018 the Honorable Chief Minister Sindh/Chancellor appointed as Dean Faculty of Information Technology for a period of (03) three years No.SO(U) U & B/ SMIU/14-4/2018/268 year 2018-2021.

Dean, Faculty of Information Technology (I.T.) Administer all internal and external activities of the Faculty of I.T., consisting of following four departments and twelve (12) academic programs, five batches of Computer Science program are accredited by the Accreditation Board for Computing National Computing Education Accreditation Council (NCEAC) Higher Education Commission Government of Pakistan. with over 1,400 undergraduates, 70 graduate students and 30 post graduate students and 32 Faculty members

- Department of Computer Science
- Department of Artificial Intelligence & Mathematical Science
- Department of Software Engineering
- Department of Environmental Science
- Department of Media Science

Department Service

- Chairman, Department of Artificial Intelligence & Mathematical Science Departmental, 2020
Perform all the responsibility of chairperson (Additional responsibility) as per statute of SMIU

B. ACADEMIC POSITION

a. Professor | Sindh Madsressatul Islam University, Karachi, Pakistan

- Academic position working as a Professor within Department of Artificial Intelligence & Mathematical Sciences Since 2020-2021
- Has been served as a Professor Computer Science since 2012-2020

MEMBER STATUTORY BODIES

Honored to be nominated as a member of following Statutory Bodies

1. Chair/Member Departmental Board of Studies (BoS)
2. Chair Faculty Board of Studies (BoF)
3. Member Academic Council
4. Member Syndicate
5. Member Senate

MEMBER ACADEMIC & RESEARCH COMMITTEE

- | | |
|---|-----------|
| 1. Chair/Member Departmental Research Committee | 2021 |
| 2. Member Advanced Studies Research Board | 2013-2021 |
| 3. Member Committee for Steering Committee ORIC | 2021 |
| 4. Member University Research Committee | 2021 |

CONVENER/ MEMBER OF VARIOUS COMMITTEE

Honored to be nominated as a convener & member of various committee, authority trusted me and selected member of selection board, sexual Harassment committee, online classes and other

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|--|---------------------|
| 1. Convener Dr. Ibrahim Mulla (DIM) High Performance Computing Lab planning & Development | 2021 |
| 2. Convener SMIU Steering Committee on Online Classes | 2018-2020 |
| 3. Convener Committee to review utilization of resources for I.T. Tower | September 2021 |
| 4. Convener Sexual Harassment Committee | February 2021 |
| 5. Member Selection Board | 2015-2021 |
| 6. Member Finance & Planning Committee | 2015-2021 |
| 7. Member Library Acquisition Committee | November 2021 |
| 8. Former Convener of Library Acquisition Committee | January 2012- 2021 |
| 9. Former Convener Technical Committee | 2013-2017 |
| 10. Former Head IT Unit | 2013-2015 |
| 11. Former Member Tender Committee | 2013-2017 |
| 12. Overall In-charge of the event/Focal person Inaugural Session of SMIU-DICE-CAM 2019 event. | 2019 |
| 13. Member Implementation and Controls Command & Coordination Cell Covid-19 | September 2020 2020 |

Member Steering Committee Convocation/
Convener Convocation Procession Management Committee

Lead Faculty of Information Technology & Faculty of Science in Convocation Procession for Academic year

1. First Convocation held on Saturday February 18, 2017 at Pakistan Air Force Museum
2. **Convener** of Second Convocation held on Saturday November 17, 2018 at Convention Center, DHA Country & Golf Club, Karachi
3. **Convener** of Third Convocation held on Saturday November 2, 2019 at Convention Center of Karachi Expo Center is the member of upcoming fourth Convocation 2021.

Online Classes Committee Meeting

The COVID-19 created mess for education System, the Authority nominated as Convener Online Classes Committee during the period of COVID 19.

08/2003 – 11/2012

Chairperson Department of Computer Science & Assistant Professor| Bahria University, Karachi, Pakistan

Academic position working as an Assistant Professor in Department of Computer Science

- Conducted Lectures to MS and BS programs.
- Supervised Thesis of Graduate Students.
- Supervised Final Year Project of undergraduate Students.



Administrative position worked as a Chairperson Department of Computer

- Dealt with Thirty (30) subordinates in organized teamwork.
- Chaired undergraduate and graduate programs of Department.
- Successfully done accreditation of bachelor degree program of Computer Science in 2012.
- Convened and chaired meetings of the Department Board of Studies for Academic & research matters.
- Member Faculty Board of Studies (FBoS).
- Member Academic Council.
- Established & supervised Research Cell of the department for the coordination of research activities of the faculty members and the students.
- Prepared syllabi of respective subjects for each semester.
- Handled departmental correspondence.
- Allocated courses to faculty members.
- Supervised teaching program of department.
- Editor-In-Chief/Managing Editor of BUICT (Bahria University Journal of Information Technology & Communication Technology)
- Member Board for Annual Increments (pay group 1- 7), 2010.
- Member Performance Evaluation and Promotion Board (pay group 1-7), 2010.

09/1999 – 08/2003

Lecturer | University of Karachi, Karachi, Pakistan

Academic position worked as a Lecturer in Department of Computer Science

- Conducted Lectures for Undergraduate and graduate students
- Supervised Final year Project.
- Arranged participation of Department in Seminars & Exhibitions.
- Compiled Syllabus and Paper setter of Internal Examination.
- Guided and supervised the students in co-curricular activities



01/1997 – 07/1998

Chairperson Department of Computer Science / Lecturer | Al-Noor Degree College Karachi, Pakistan

Academic position worked as a Lecturer in Department of Computer Science

- Conducted Lectures for Undergraduate and graduate students
- Arranged participation of Department in Seminars & Exhibitions.
- Compiled Syllabus and Paper setter of Internal Examination.
- Coordinate with Board of Intermediate & University of Karachi.

06/2010 – 06/2018 International Academic Visits

1. Academic Visit April 15-April 22, 2018 Turkey

• The Istanbul Technical University Istanbul, Turkey April 16,2018

Academic collaboration with Prof. Dr. Cafer Özkul Deputy Dean of Istanbul Technical University, Turkey a pioneering University of Engineering and Architecture. The meeting was very successful and signed MoU.

• Yildiz Teknik University Istabul, Turkey April 17,2018

Academic collaboration with **Professor** Dr. Galip Cansever Vice Chancellor of Yildiz Teknik University. Representatives of Computer Science, Education and Business Administration Departments also shared information about their departments. Representatives of Yildiz Tekink University agreed to sign MoU.

• Altinbas University Istanbul, Turkey April 17,2018

Academic collaboration with **Professor** Dr. Cagri Erhan President of Altinbas University and representatives of both universities singed MoU for future collaborations.

• Ankara University Ankara, Turkey April 18,2018

Academic collaboration with **Professor** Dr. Sibel A. Ozkan Vice Rector of Ankara University. She shared details about her university. Further the international relation officer of Ankara university informed about certain steps for collaboration.

- **Hacettepe University Ankara, Turkey April 18,2018**

Academic collaboration with **Professor** Dr. Timur President of Hacettepe University Ankara. The faculty belonging to different departments also provided information about their department and policy related to collaboration. MoU documents were shared and agreed to sign.

- **Selcuk University Konya, Turkey April 19,2018**

Academic collaboration with **Professor** Dr. Mustafa ŞAHİN Rector of Selcuk University Konya. Under the Mollana Exchange program Mou was signed. The Rector of Selcuk University and Prof. Dr. Syed Asif Ali the Dean faculty of Computer Science said few words for television channel.

2. Academic Visit July 29- August 5, 2017 London, United Kigdom

- **Academic collaboration with Professor** Sally-Ann Burnett, Deputy Dean for the Business School, BPP University London.

3. Academic Visit August 2016 Scotland, United Kingdom

International Leadership Programme with the collaboration of Higher Education Commission (HEC) and British Council Pakistan.

The University of Glasgow, Scotland, UK August 10-11, 2016

- Leadership Programme August 10,2016 at University of Glasgow. Scotland, UK.
Enhancing the students experience by Professor Frank Coton, Vice Principal, Learning and Teaching.
- **Quality assurance and Academic Governance** by Dr. Jack Aitken, Director, Senate Office
- **Setting and realising the strategic vision** by Professor Neal Juster, Senior Vice Principal and Deputy Vice Chancellor.
- **Strategic Leadership & transformational Change**, by Dr. Margery.
- **Developing human resource capacity to deliver the vision** by Eddie O’Grady, Head of Employee and Organisational Development.
- **Effective financial planning and budgeting**, by Professor Dr. Margery.
- **Achieving Research Excellence**, by Professor Dr. Margery
- **Building staff research capacity**, by Professor Mike Osborne, Director of Research
- **Leading and motivating staff to achieving excellence in teaching and research** by Professor Dr. Margery.
- **Building wider partnership through knowledge exchange and regional development** by Professor Dr. Margery.
- **Academic discipline/University services** by Professor Trevor Gale Head of the School of Education.

The University of Edinburgh, Scotland, UK August 12,2016

- Leadership Programme. **How the university sustains the Ranking while responding to the global and national challenges in higher education.**

4. Academic Visit January 2016 People’s Republic of China

Hainan Normal University, Hainan, China

- Visited Hainan Normal University on January 5,2016, the President of Hainan Normal University (HNNU) Prof. Lin Qiang, Director of Academic Affairs Prof. Liang Guang, Director O.I.C.E. , Prof. Geng Juan , Dean of the school of Information Science and Technology Prof. Wu Lihua, Dean of the school of Economy and Management Prof. Pan Yangquan and discussed on various academic matters.

Hainan University, Hainan, China

- Visited Hainan Normal University (HNU) on January 5,2016, The president of Hainan University (HU) Prof. Dr Li Jianao, VP Dr.FU Guohua, the Dean, Secretary General Prof Dr Yang Yunsheng, Dean Dr Huang Man and members of other related colleges. Vice Executive Dr. Jinying involved in discussion with the delegation of SMIU on long term or short term training or seminars/conferences.

Sanya University, Sanya, China

- Visited Sanya University (SU) on January 7,2016. The Vice President of Sanya University Prof.Zoe Che Dean of Science and technology Prof. Zhou Mi, Dean of Sociology Prof. Sun Aizhen, Dean of Tourism Management Chai Yong, and Professor Yanwei discussed on academic collaboration with delegation of SMIU specially for students exchange program.

Tropical Ocean University, Sanya, China

- The delegation of SMIU visited Sanya University on January 7,2016.

National Leadership Program (NLP) 2016,2017,2018 and 2019

Honored to be nominated Senior member of National Leadership Program (NLP) delegation four times year 2016, 2017,2018 and 2019 to visit Islamabad, to meet the top leadership of the country including the President of Pakistan, Prime Minister of Pakistan, Chief Justice of Pakistan at Supreme Court, Chief of Army Staff at GHQ, Chairman National Accountability Bureau, Parliament House, Chairman Senate, Vice Chancellors and Rectors of the various universities including Pakistan Institute of Parliamentarian Services (PIPS), NUST , COMSATS and Air University.

Courses Taught

- | | |
|--|-----|
| • Empirical Research in Artificial Intelligence | PhD |
| • Social Network Analytics Using Artificial Intelligence | PhD |
| • Artificial Intelligence in Healthcare | PhD |
| • Knowledge Based Artificial Intelligence Systems | PhD |
| • Multi-agent Systems | PhD |
| • Artificial Intelligence | BS |
| • Theory of Automata & Formal Languages | BS |
| • Software Project Management | BS |
| • Software Engineering | BS |

Scholarly Interest

Artificial Intelligence, Artificial Intelligence and Healthcare Systems, Artificial Intelligence techniques for Special Need People (SNP), Digital Social Networks, Nature inspiration Algorithms.

Recent Research Projects:

Following research projects are in progress, MoU is signed with Institute of Neurophysiology, **University of Cologne, Cologne Germany** for further work on these projects.

- To measure the mental age and Stow behind genetics of Down Syndrome people
- Improving Speech Disorders in Down Syndrome using Artificial Intelligence
- Artificial Intelligence Based Tools and Techniques for Early Detection and Management of Stress

Research Services/Editorial Board member/Reviewer

1. **Launched First International Journal:** Launched successfully the first International Journal, International Journal of Computing and Related Technology (IJCRT) in July 2017, from Faculty of Information Technology, Sindh Madsressatul Islam University, Karachi, Pakistan as an Editor-in-Chief, now the Journal is in **Y category** in Higher Education Commission (HEC) Record.
2. **Launched First** Journal of Social Science and Media Studies (JOSSAMS) and served as an Editor-in-Chief of the JOSSAMS from 2017-2020.
3. Served as an Editor-In-Chief of Bahria University Journal of Information Technology & Communication Technology (BUICT), Volume 5 Issue1 2012 (ISSN:1999-4974), 2012
4. Managing Editor Bahria University Journal of Information Technology & Communication Technology (BUICT), Volume1 Issue1(2008), Volume 2 Issue1(2009), Volume 3 Issue1(2010), Volume 4 Issue1(2011) (ISSN:1999-4974), 2011.
5. Editor, Journal of Agriculture and Life Sciences, ISSN 2375-4214, DOI:10.30845/jals published by Center for Promoting Ideas (CPI), USA, <https://www.jalsnet.com/index.php/editorial-board>.
6. Member editorial board of Journal Educational Research International, ISSN:2307-3713, ISSN:2307-321(Print), published by Educational Research International (ERInt.), SAVAP International, (Society for the Advancement of Education through Visionary Academicians/Researchers for Peaceful Globe). <http://erint.savap.org.pk/board.html#>
7. Member editorial review board, Educational Research International, Pakistan Journal of Engineering Technology and Science (PJETS), <https://pjets.iobm.edu.pk/wp-content/uploads/2018/01/INTIAL-PAGES.pdf>
8. Member editorial review board of International Journal of Advances in Engineering and Technology. <https://www.ijaet.org/reviewer-board-of-ijaet/index.html>

External Examiner for PhD. Final Defense (University of Karachi)

1. Candidate: **Qamar-ul-Arifeen**
Topic: **Soft computing approach in forensics: An intelligent approach** (2015)
2. Candidate: **Zain Abbas**
Topic: **Intelligent web technologies using Rough sets in context of healthcare information** (2015).
3. Candidate: **Syed Asim Ali**
Topic: **Developing an Information and Communication Technology Acceptance Model in the context of Social Environment and measuring the Performance using Diffusion Models**, (2017).
4. Candidate: **Muhammad Nasim**
Topic: **Proposed Solution of Security Challenges for the Future Computing System**, (2019).
5. Candidate: **Jawed Nasim**
Topic: **Application of ICT in Agricultural science: A Pakistan case study**, (2020).

SELECTED PUBLICATIONS

1. **Syed Asif Ali**, Conversion of a heterogeneous education system (HeES) into a Homogeneous education system (HoES) by use of knowledge Management and information technology, People, Knowledge and Technology: What Have We Learnt So Far, in ICKM 2004 Singapore (HEC sanction travel grant HEC letter No.3-5/HEC/Acad-R/2004, date 6-12-2004).
2. **Syed Asif Ali**, Conversion of Heterogeneous Education System (HeES) into Homogeneous Education System(HoES) for ease of Disables using Information Technology, International Conference on Computer Design and Applications (ICCD A 2010)' held in June 25 – 27 2010 Qinhuangdao, Hebei, China.
3. **Syed Asif Ali**, Sign Language Information Detection through Mobile or Telephonic Communication, International Journal of Computer Applications February 2013. Published by Foundation of Computer Science, New York, USA © 2013 by IJCA Journal Online ISSN 0975- 8887.
4. **Syed Asif Ali**, Color Analyzer a Software Application for Persons with Disability of Color Blindness. ,CiiT International Journal of Software Engineering and Technology. Print: ISSN 0974 – 9748. Vol 5, No 2, 2013.
5. **Syed Asif Ali**, Design of Minimal States Deterministic Finite Automata to recognize Sign Language, International Journal Journal of Recent Technology and Engineering™ (IJRTE)ISSN: 2249 - 8958 (Online) ISSN: 2277 – 3878,2013.
6. **Syed Asif Ali**, Safee Ullah, Abdul Ghafoor, Abdul Baqi, Implementation of Automata Theory to improve the learning disability, SINDH UNIVERSITY RESEARCH JOURNAL (Science Series) ISSN: 1813-1743, 2013. (HEC Recognize ISI index Journal)
7. **Syed Asif Ali**, Interactive Employment Model to Assimilate the Blind persons in workplace by using ICT,The 4th National Symposium on Informatics Technologies for People with Special Needs (PwSN) is scheduled for April 23-25, 2013 at King Saud University.
8. **Syed Asif Ali**, Design of Minimal States Deterministic Finite Automata to recognize Braille Patterns, Australian Journal of Basic and Applied Sciences ISSN: 1991-8178
9. **Syed Asif Ali**, Urdu Sign Language using Haar-Like Algorithms Detector, International Journal of Innovative Technology and Exploring Engineering™ (IJITEE)ISSN: 2278 - 3075 Online, Reg. No.: 65021/BPL/CE/12 ISSN: 2278 - 3075 Online, Reg. No.: 65021/BPL/CE/12,2013.
10. **Syed Asif Ali**, Monir Ahmed, ICT's Impact on HRM: Special People's Endeavors, International Journal of Innovative Technology and Exploring Engineering™ (IJITEE) ISSN: 2278 – 3075,2013.
11. **Syed Asif Ali**, Role of Information Technology (IT) to Hike Fish Productivity in Fish Farm House, Australian Journal of Basic and Applied Sciences, Volume 7, Issue7 Pages 388-394 2013/7
12. **Syed Asif Ali**, Safee Ullah, Abdul Ghafoor, Interactive Employment Model to Assimilate the Deaf persons in workplace by using ICT, SINDH UNIVERSITY RESEARCH JOURNAL (Science Series) ISSN: 1813-1743, 2013. (HEC Recognize ISI index Journal)
13. Sumaira Hussain, **Syed Asif Ali**, Abdul Basit Dogar, the critical study of exploring the quality of software in the context of reliability, International Journal of Computer Applications IJCA Journal Online ISSN 0975- 8887, Volume 137 – No.8 March 2016.
14. Adnan, **Syed Asif Ali**, Planned Future Internet Infrastructure: A Pilot Model for Higher Education Institution, International Journal of Computing and Related Technology Volume 1, Issue 1, ISSN 2518-4806, Jan-July 2017.
15. **Syed Asif Ali**, Adnan Zafar, Model Structure of Rodents (MSOR) for earthquake alerts-a survey based study, Journal of Built Environment, Technology and Engineering, Vol. 1(Sept.) ISSN 0128-1003, 2016.
16. **Syed Asif Ali**, Sumaira Hussain, Basit Hasan, Context Aware Computing Used for Education and Communication of People with Special Needs; Focus on Deaf and Dumb, Journal of Information & Communication Technology Dec 2016 Volume 10 Number 02 ISSN 1816-613X
17. Syeda Wajiha Naim, **Syed Asif Ali**, Sumaira Hussain, Basit Hasan, A Collaborative Model to reduce Gap between IT Industry and academia (CMRGIA), IJCSNS International Journal of Computer Science and Network Security, VOL.19 No.5, HEC Recognize ISI index Journal.
18. Wajiha Naim, Sumaira Hussain, Basit Hassan, **Syed Asif Ali**, Priha Bhatti, Syeda Nazia Ashraf, How to address Impediments in Scrum? IJCSNS International Journal of Computer Science and Network Security, VOL.19 No.6, June 2019,HEC Recognize ISI index Journal.
19. **Syed Asif Ali**, Wajiha Naim, Basit Hassan, Abdul Sattar, M. Fahad, Automated Car Parking System, International Journal of Computer Applications (IJCA), VOL.178, No.35 July,2019.
20. **Syed Asif Ali**, Basit Hassan, Syeda Wajiha, Maham Nasrullah, Book Sharing Network, International Journal of Computer Applications (IJCA), VOL.178, No.35 September,2019

21. Muhammad Ali, **Syed Asif Ali**, Imtiaz Hussain, Faisal Nawaz, Return Level Estimates of Maximum Temperature for different Return Period, Journal of Mechanics of Continua and Mathematical Sciences ISSN (Online): 2454 -7190 Vol.-15, No.-8, August (2020) pp 73-86 ISSN (Print) 0973-8975, 2020.
22. Muhammad Ali, **Syed Asif Ali**, Muhammad Jawed Iqbal, Zohaib Aziz, Bulbul Jan, Study the Bayesian Approach for Computing Return Levels of Extreme Rainfall at Khyber Pakhtunkhwa (KPK), Pakistan, Journal of Mechanics of Continua and Mathematical Sciences, ISSN (Online): 2454 -7190 Vol.-15, No.-1, January (2020) pp 118-127 ISSN (Print) 0973-8975, 2020
23. Abdullah Ayub Khan; **Syed Asif Ali**, Network Forensics Investigation: Behaviour Analysis of Distinct Operating Systems to Detect and Identify the Host in IPv6 Network, International Journal of Electronic Security and Digital Forensics (IJESDF), Vol. 13, No. 6, **2021** pp 600–611, *HEC recognize Journal* , **IF: 0.88**
24. Saeed Ahmed, **Syed Asif Ali**, Imtiaz Husain, Basit Hassan, Proficient Masked Face Recognition Method Using Deep Learning Convolution Neural Network (CNN) in Covid-19 Pandemic, International Journal of Circuits, Systems and Signal Processing, E-ISSN: 1998-4464, Volume 15, 2021, pp.1751-1758, **2021**, DOI: 10.46300/9106.2021.15.189, *HEC recognize Journal*. **IF: 0.64**
25. Muhammad Irfan Leghari, **Syed Asif Ali**, Enhancing mental skills for better Reading writing abilities using Interactive Assistive Technology: A survey-based study for Down Syndrome Students, Sindh University Research Journal (Science Series) Vol: 53 No:4 32- 38, **2021**, ISSN:1813-1743,1813-1743, HEC recognize Journal.
26. Muhammad Irfan Leghari, **Syed Asif Ali**, improving learning abilities using interactive Assistive Technology: A survey based study for Down Syndrome Students, ILMA Journal of Technology & Software Management | Volume. 2 Issue 1, **2022**, ISSN: 2709-2240, HEC recognize Journal.
27. Muhammad Faisal, **Syed Asif Ali**, Qamarul Arfeen Alquma Noor, A survey of analyzing IPDR data to find public complex mobile using in Pakistan, Six International Communication in the new world Congress, Baku, Azerbaijan, September 2-4 **2021**, proceeding book page#193-207
28. Khan, A.A.; **Ali, A.** Improved Growth Pattern of Tiger Prawn (TP) Arthropoda in a Pond by Analytical Hierarchical Process (AHP). *Preprints* **2021**, 2021030276 (doi: 10.20944/preprints 202103. 0276.v1). Khan, A.A.; Ali, A. Improved Growth Pattern of Tiger Prawn (TP) Arthropoda in a Pond by Analytical Hierarchical Process (AHP). *Preprints* 2021, 2021030276 (doi: 10.20944/preprints 202103. 0276.v1).
29. Syed Muhammad Hassan, **Syed Asif Ali**, Basit Hassan, Maaz Rafiq, Saeed A. Awan, Hybrid Features Binary Classification of Imbalance Stroke Patients Using Different Machine Learning Algorithms, International Journal of Biology and Biomedical Engineering, Volume 16, **2022**, pp.154-160, 18 January 2022, -ISSN: 1998-4510, DOI: 10.46300/91011.2022.16.2, *HEC recognize Journal* **IF: 0.49**
30. Hussain, S., Xi, X., Ullah, I., Inam, S. A., Naz, F., Shaheed, K., **Syed Asif Ali** & Tian, C. (2022). A Discriminative Level Set Method with Deep Supervision for Breast Tumor Segmentation. *Computers in Biology and Medicine* Elsevier , 149, 105995, HEC recognize Journal W category **IF: 7.47** Epub 2022 Aug 24
31. Adnan Alam, **Syed Asif Ali**, Sadiq Ali Khan, Zakir Shaikh, Dilawar Khan “Particle Swarm Fuzzy Analytical Hierarchical Process (PSFAHP) for Arthropoda in a control condition, Journal of Maritime Research, Vol XIX. No. II (2022) pp 1–7, ISSN: 1697-4040.
32. Fahad Ghani, **Syed Asif Ali**, Muhammad Irfan Leghari, “Using mathematical modeling, identify the repetition and progression of the human eye's colour pattern: Mathematic”, Technium Education and Humanities, Vol. 4 pp 49-64 (2023), ISSN: 2821-5079.
33. Muhammad Irfan Leghari, **Syed Asif Ali**, Artificial Intelligence Techniques to improve cognitive traits of Down Syndrome Individuals: An Analysis, International Journal of Software Science and Computational Intelligence (IJSSCI), Vol 15, No.1, **2023**, DOI: 10.4018/IJSSCI.318677. Web of Science (WoS)/ Scopus Indexed Journal, HEC recognize Journal.
34. Muhammad Irfan Leghari, Hamimah Ujir, **Syed Asif Ali**, Irwandi Hipiny,” Machine Learning Techniques to improve the Mental Age of Down Syndrome Individuals: A Detailed Review on Artificial Intelligence Solutions for their Learning”, International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 14, No. 1, **2023**. Web of Science (WoS)/Scopus Indexed Journal.

BOOK PUBLICATION

- Author of Books ‘**Information and Communication Technology for Special Education: Application of Artificial Intelligence Techniques, Theory of Automata and Software Development for Special Education**’, November 2012, and ‘Computer Graphics a Practical Approach for Beginner’s ‘, June 2012, Publisher: LAP LAMBERT Academic Publishing Germany.
- Book chapter title, “**Artificial Intelligence Techniques to Understand Braille: A Language for Visually Impaired Individuals**”, Syed Asif Ali (Department of Artificial Intelligence and Mathematical Sciences, Sindh Madressatul Islam University, Karachi, Pakistan), Source Title: Handbook of Research on Artificial Intelligence Applications in Literary Works and Social Media, Copyright: © 2023 |Pages: 23, DOI: 10.4018/978-1-6684-6242-3.ch012
- Book chapter title, “**Achieving Sustainable Agriculture Deployment: An Artificial Intelligence-based Approach**”, Syed Asif Ali (Department of Artificial Intelligence and Mathematical Sciences, Sindh Madressatul Islam University, Karachi, Pakistan), Source Title: Smart Village Infrastructure and Sustainable Rural Communities, Copyright: © 2023 |Pages: 315, DOI: 10.4018/978-1-6684-6418-2,ISBN13: 9781668464182| ISBN10: 1668464187|EISBN13: 9781668464199|ISBN13 Softcover: 9781668464229 <https://www.igi-global.com/book/smart-village-infrastructure-sustainable-rural/301571#table-of-contents>

Research Grant/Funded Project:

2017-2018

1. **Title:** CV Analysis thought text mining and Neural
Duration: 2017-2018
Sponsors/Grant: Ignite under Ministry of Information Technology & Telecom, (No. Ignite/NGIRI/201-18, Cheque No: 97541878)/ Mr. Huzafa.
2. **Title:** Desktop Virtualization (Citrix Xenserver & Windows Server) Centralized Managed
Duration: 2017-2018
Sponsors/Grant: Ignite under Ministry of Information Technology & Telecom, (No. Ignite/NGIRI/201-18, Cheque No: 97541879)/ Mr. Meesum Abbas Bhatti

2019

1. **Title:** Sawt-e-khass (Device for a Deaf person while driving a car)
Duration: 2018-2019
Sponsors/Grant: IGNTIE - NGRI FYP **Championship-2019** by Ignite HEC
2. **Title:** Centralized Managed Virtual Desktop infrastructure
Duration: 2019-2020
Sponsors/Grant: Ignite National Grassroots ICT Research Initiative (NGRI) **2019** for Final Year Project (FYP)
3. **Title:** Criport
Duration: 2019-2020
Sponsors/Grant: Ignite National Grassroots ICT Research Initiative (NGRI) **2019** for Final Year Project (FYP)
4. **Title:** Automated Fish Recognition and Monitoring System
Duration: 2019-2020
Sponsors/Grant: Ignite National Grassroots ICT Research Initiative (NGRI) **2019** for Final Year Project (FYP)
5. **Title:** Event Success Predictor
Duration: 2019-2020
Sponsors/Grant: Ignite National Grassroots ICT Research Initiative (NGRI) **2019** for Final Year Project (FYP)
6. **Title:** Shadow of Colors
Duration: 2019-2020
Sponsors/Grant: Ignite National Grassroots ICT Research Initiative (NGRI) **2019** for Final Year Project (FYP)

2020

1. **Title:** Shadow of Colors
Duration: 2020
Sponsors/Grant: Ignite National Grassroots ICT Research Initiative (NGRI) **2019** for Final Year Project (FYP)
2. **Title:** Online Student Counselling Management System
Duration: 2020
Sponsors/Grant: Ignite National Grassroots ICT Research Initiative (NGRI) **2019** for Final Year Project (FYP)
3. **Title:** Miniature Learning Management System
Duration: 2020
Sponsors/Grant: Ignite National Grassroots ICT Research Initiative (NGRI) **2019** for Final Year Project (FYP)
4. **Title:** Unstable Children Emotion Detection
Duration: 2020
Sponsors/Grant: Ignite National Grassroots ICT Research Initiative (NGRI) **2019** for Final Year Project (FYP)
5. **Title:** Canteen Automation System

Duration: 2020

Sponsors/Grant: Ignite National Grassroots ICT Research Initiative (NGRI) **2019** for Final Year Project (FYP)

6. Title: Evento Android Based Application

Duration: 2020

Sponsors/Grant: Ignite National Grassroots ICT Research Initiative (NGRI) **2019** for Final Year Project (FYP)

PhD (Computer Science) Candidates:

- a. Ms. Asia Samreen
Enrollment: PCS-18S-003
Topic: Intelligent Prediction Scheme(IPC), to identify the Human Behavior using Textual data.
Sindh Madressatul Islam University , Karachi, Pakistan
- b. Mr. Irfan M. Leghari
University Malaysia Sarawak, Kota Samarahan, Malaysia
Topic: Model for Down Syndrome People.

Supervised published research in ProQuest (International Database)



- a. The critical study of exploring the quality of software in the context of reliability
Sumaira Hussain, Syed Asif Ali, ProQuest Dissertations Publishing, 2014. 1691836.
<https://search.proquest.com/docview/1672144173/2392E3CB2D9147E7PQ/1?accountid=135034>
- b. Future Internet (FI) Infrastructure and its security: A case study
Adnan Ahmed, Syed Asif Ali. Sindh Madressatul Islam University (Pakistan), ProQuest Dissertations Publishing, 2017. 10308401. <https://search.proquest.com/pqdtglobal/docview/1864628814>
- c. Collision of Pakistani television dramas on society, Bushra Nasir (A11092004)
- d. Digital Media Networks: To promote people with mental illness, Faraz Ahmed
- e. Recognize Learning Disability (RLD) in classroom environment using Artificial Intelligence, ANN.
Rubina Naz (MSC-18S-005).
- f. Voice-Signal Analysis for Deaf Impairment people, Ms. Jaweria Tanvir (MSC-18S-006)

Awards/ Appreciation

- **Living Legend Excellence Award:** Received Living Legend Excellence Award from Mr. Nisar Ahmed Khuhro, the Senior Minister Food & Parliamentary Affairs, on research work carried out for special needs people, organized by Ideal Autonetics (PVT) Limited.
- **Service Excellence Award** in 2017 on establishing the Department of Computer Science as a First Chairperson and First Dean Information Technology from Competent Authority of Madsressatul Islam University, Karachi, Pakistan.
- Nominated for the **ICCHP Roland Wagner award** and put on the short list of potential winners. Announced by International Conference on Computers Helping People with Special Needs Vienna University of Technology, Austria 2010.
- **Awarded Best performance** by the Board of Intermediate Education Karachi on organizing the science exhibition 2000 held in Expo-Center Karachi Pakistan as a member of Science forum (February 2000).
- **Awarded Best performance** by the Board of Intermediate Education Karachi on organizing the science exhibition 2001 held in Expo-Center Karachi Pakistan as a member of Science forum (February 2001).
- **Received First prize on Software Roshni Software for Blind Persons** in 10th all Pakistan Software Competition and Exhibition arranged by A.Q. Khan research laboratory held on 24th, 25th and 26th July 1999 in Hotel Islamabad (Holiday Inn), Also received award on same software in annual function of North Karachi Government Boys College, August 1999.

Higher Education Commission (HEC) Government of Pakistan Honor



1. **Higher Education Commission(HEC) Ph.D. Approved Supervisor**

- It is an honour to be nominated a second time as an approved Ph.D. supervisor by Pakistan's Higher Education Commission (HEC) vid letter Ref.HEC/HRD/ASA/2022/173831. This goal imposes special responsibilities on the PhD student's supervisors, who must guide students towards productive lines of research and ethical conduct and help build the student's professional career from 2022–2025.
- It is an honour to have been nominated as an approved Ph.D. supervisor by Pakistan's Higher Education Commission (HEC) ref.1-86/HEC/HRD/E&T/2013/76(12) from 2014 to 2017.

2. **Higher Education Commission(HEC) National Curriculum Revision Committee(NCRC)**

- i. Nominated member of Higher Education Commission, National Curriculum Revision Committee (NCRC) of

Computer Science 2004.

ii. Nominated member of Higher Education Commission, National Curriculum Revision Committee (NCRC) of Computer Science 2013.

3. **Higher Education Commission(HEC), National Computing Education Accreditation Council (NCEAC)**

Member of National Computing Education Accreditation Council (NCEAC) Higher Education Commission (HEC) Government of Pakistan and has been served as **Convener/Member** of Accreditation Inspection Committee for the Accreditation of BSCS, BSIT and BSAI programs.

PROFESSIONAL MEMBERSHIPS

Member | The Computer Science Teachers Association(CSTA), USA Membership No: **4734522**

Member | International Society for Technology in Education, Member number: **377969**

Member | The International Association of Engineers (IAENG) Canada, Membership No: **122127**

Member | International Association of Computer Science and Information Technology (IACSIT), Singapore, Membership No: **80344175**

Member | International Economics Development and Research Center (IEDRC) senior member ID is **30080480**

Member | International Scientific Academy of Engineering & Technology(ISAET), <http://www.isaet.org/members.php?page=7>

HONORARY MEMBERSHIP

1. Honorary Member of Curriculum Evaluation Committee for “Digital Forensic Science” program offered by International Institute of Digital & Forensic Science (IIDFS) affiliated by Sindh Board of Technical Education, Karachi.
2. Honorary Member of Constitution of Council of Pakistan Council of Scientific & Industrial Research (PCSIR).
3. Member Technical Committee of Pakistan Science Foundation (PSF) as an Artificial Intelligence Specialist