

Dr. Muhammad Shahzad SARFRAZ

Professor of Computer Science

Director Campuses FAST-NUCES (CFD & Multan)

☎ +92-333-6574143

✉ shahzad.sarfraz@nu.edu.pk



I have nearly two decades of experience in Computer Science and Geospatial Technologies, specializing in Geospatial Artificial Intelligence (GeoAI), Remote Sensing and Geographic Information Systems (GIS), Spatial Data Science, and Location Intelligence. My research focuses on developing AI-driven solutions for sustainable agriculture, climate resilience, and natural resource management. My expertise includes multispectral and hyperspectral satellite data processing, UAV-based analytics, cloud GIS and the development of intelligent geospatial decision-support systems.

STRATEGIC ACADEMIC LEADERSHIP, RESEARCH, AND ADMINISTRATIVE RESPONSIBILITIES

1. Provide strategic leadership in academic planning, curriculum development, accreditation, faculty development, and institutional governance.
2. Lead interdisciplinary research in AI, Geospatial AI (GeoAI), Remote Sensing and GIS, Spatial Data Science, Digital Health, and Climate-Smart Agriculture.
3. Build national and international collaborations, secure research funding, and promote innovation and technology transfer.
4. Mentor faculty, researchers, and students through research supervision, teaching, and scholarly development.
5. Lead academic administration, quality assurance, strategic planning, and resource management.
6. Represent the university through research collaborations, publications, professional service, and invited engagements.

PROFESSIONAL EXPERIENCE

Director Campus FAST - National University of Computer and Emerging Sciences	May 01, 2025 – Present Multan, Pakistan
Professor and Director Campus National University of Computer and Emerging Sciences	January 01, 2022 – Present Chiniot-FSD, Pakistan
Associate Professor and Director Campus National University of Computer and Emerging Sciences	August 01, 2020 – December 31, 2021 Chiniot-FSD Pakistan
Associate Professor & Head Department of CS National University of Computer and Emerging Sciences	January 01, 2019 – July 31, 2020 Chiniot-FSD, Pakistan
Associate Professor & Head Graduate Programs National University of Computer and Emerging Sciences	September 05, 2018 – December 31, 2018 Chiniot-FSD, Pakistan
Associate Professor, Chairperson CS Department & Director Evening Programs University of Gujrat	April 15, 2015 – September 05, 2018 Gujrat, Pakistan

Assistant Professor & Head Graduate Programs
National University of Computer and Emerging Sciences

March 01, 2014 – April 14, 2015
Chiniot-FSD, Pakistan

Assistant Professor
COMSATS Institute of Information Technology (CIIT)

December 31, 2012 – February 28, 2014
Abbottabad, Pakistan

Visiting Researcher
National Institute of Informatics, Tokyo (NII)

August 01, 2010 – March 31, 2011
Tokyo, Japan

Research Associate/PhD Fellow
Asian Institute of Technology (AIT)

January 15, 2008 – December 30, 2012
Pathum Thani, Thailand

Lecturer
COMSATS Institute of Information Technology (CIIT)

August 04, 2006 – January 14, 2008
Abbottabad, Pakistan

EDUCATION

Ph.D. in Computing (RS & GIS)

Asian Institute of Technology, Thailand, 2012

M.S. in Computing (RS & GIS)

Asian Institute of Technology, Thailand, 2009

Master's in Computer Science

University of Agriculture, Pakistan, 2006

Bachelor's in Computer Science

University of Punjab, Pakistan, 2004

ACTIVE PROFESSIONAL MEMBERSHIP

1. Senior Member, IEEE
2. Member, Geological Society of America (GSA)
3. Member, Canadian Remote Sensing Society (CRSS)
4. Member, Association for Computing Machinery (ACM)
5. Member, Pak One Health Alliance (POHA), Islamabad Pakistan
6. Member, International Association of Chinese Professionals in GIS

FUNDED RESEARCH PROJECTS, HONORS AND AWARDS

1. **HEC Funded Research Project** Vector-borne Infectious Diseases Surveillance and Response System using Earth Observation Data. Funding amount Rs. 4.8 Million during 2019-22.
2. **NUCES Research Grants** Secured PKR 5.4 million in competitive research funding during 2023–2025.
3. **Research Productivity Award** for seven consecutive years (2020-2026) from FAST-NUCES, Islamabad, Pakistan.
4. **Research Productivity Award** for the Year 2014 from COMSATS University Islamabad, Pak.
5. **HEC Travel Grant for Cyprus** to Present Research at Seventh International Conference on Remote Sensing and Geoinformation of Environment held during 18-21 March 2018.
6. **HEC Travel Grant for China** to Present Research at “Symposium on ”Developments, Technologies and Applications in Remote Sensing” during May 7-10, 2018 in Beijing.
7. **HEC Travel Grant for the Czech Republic** to present Research at “XXII International Society for Photogrammetry and Remote Sensing (ISPRS) Congress 2016” during July 12-19, 2016 in Prague.

8. **ISPRS Travel Grant** for Presenting Research Results at “ISPRS TC VIII Mid-Term Symposium 2014” by ISPRS Foundation during 9-12 December 2014 in Hyderabad, India.
9. **GSA-USA Travel Fund** for Presenting Research at “Geological Society of America, 2014” by GSA International Section held on 19-22 October 2014 in Vancouver, BC, Canada.
10. **Travel Grant under NASA fund** for Presenting Research Results at “2nd Symposium on Advances in Geospatial Technologies for Health” by NASA held during August 25-29, 2013 in Arlington, USA.
11. **Best Oral Presentation Award** at the 1st International Conference on Health Science Thai Traditional and Alternative Medicine held from 21-23 Nov, 2012 at Maha Sarakham, Thailand.
12. **ProSPER.NET Thesis Competition runner-up** for Research Presentation held at HQ of United Nation (UN) University, Japan during August 2011.
13. **HEC Scholarship** for M.S. leading to Ph.D.
14. **1st Position in the Department** of Computer Science, Batch-2006, University of Agriculture, Faisalabad, Pakistan.

SERVEICES RENDERED

1. Member and Program Evaluator, NCEAC Accreditation Inspection Committee (AIC) for Computing Programs, Higher Education Commission (HEC), Pakistan.
2. Evaluator, Reviewed and evaluated competitive research proposals submitted to the Fatima Jinnah Women University (FJWU) Research Grant Program.
3. Ph.D. Dissertation Evaluator for Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Superior University, Government College University Faisalabad, the University of Engineering and Technology, and Lahore College for Women University, Pakistan.
4. Subject Expert, Selection Board Meeting for Non-Teaching positions at Government College Women University Faisalabad (GCWUF).
5. Member, Relevance Access Committee, faculty of Computing and Numeric Sciences, Government College Women University Faisalabad (GCWUF).
6. Member, Board of Faculty, Faculty of Computing and Numeric Sciences at Government College Women University Faisalabad (GCWUF).
7. Memnber, Board of Studies, Department of Information Technology, Government College Women University Faisalabad (GCWUF).
8. Member, Relevance Access Committee, Faculty of Physcial Sciences, Government College Women University Faisalabad (GCWUF).
9. Evaluator, Tech-Exhibition and Interfaculty Competition of AI Videos at Government College Women University Faisalabad (GCWUF) on August 13, 2025
10. Head, Spatial Analytic Research (SAR) group, to conduct cutting-edge research on several real-world issues using Multispectral and Hyperspectral sensors.
11. External Examiner, Graduate Programs, GC University, Faisalabad.
12. External Expert, Selection Board at University of Enigneering and Technology (UET), Lahore.
13. Member Recruitment, Campus Director and Faculty at the KIT, RYK - Pak.
14. Member, Finance and Planning Committee, University of Gujrat.
15. Co-opted Member, Board of Governors, FAST-NUCES Islamabad.

16. Member, Consultative Board, Khanpur Institute of Technology, RYK - Pak.
17. Member, Committee on Reforms in Nursing Education in Punjab, PHEC, Punjab.
18. Convener, Industry Advisory Board Committee, FAST School of Computing at CFD Campus.
19. Member, Selection Board Meeting at Government College University Faisalabad.
20. Member, Board of Studies Department of Information Technology, Government College Women University Faisalabad (GCWUF).
21. Subject Expert, Punjab Public Service Commission, Punjab.
22. Member, Board of Studies, University of Education LHR, KFUEIT RYK, University of Sahiwal, PAF-IAST Haripur & NTU FSD.
23. BOS meeting at Government College Women University Faisalabad (GCWUF) on May 16, 2025.
24. Member, Faculty Selection/Promotion Board, NTU, Faisalabad.
25. Head, Campus Research Committee at NUCES CFD Campus.
26. Convener, Graduate Studies Committee (GSC) at FAST-NUCES CFD Campus.
27. Subject Expert, DTRC Committee's to Review the Annual Progress of NTU TTS Faculty.
28. Member, Grievance Redressal Committee at NUCES CFD Campus.
29. Convener, Selection Committee of Administrative Staff at NUCES CFD Campus.
30. Convener, Board of Studies, Department of Computer Science, University of Gujrat (UoG).
31. Head, Hall Management Committee, FAST-NUCES CFD.
32. Convener, Departmental Research and Review Committee (DRRC), UoG.
33. External Examiner, NTU Graduate Assessment Test (NTU GAT-Subject) for Admission to Ph.D.
34. Member, Business Incubation Centre Advisory/Mentor Committee, UoG.
35. External Examiner, NTU & Riphah University FSD; KFUEIT RYK, COMSATS University Islamabad - Sahiwal Campus, Lahore College for Women University/PUCIT/UET Lahore.
36. Focal Person, NCEAC Accreditation Programs for Faculty of Computing & IT, UoG & NUCES.
37. Member, Departmental Research and Review Committee (DRRC), Department of IT, UoG.
38. Member, of Drafting and Proposing ORIC Policy of UoG.
39. Convener, Campus Management Committee (CMC), FAST-NUCES CFD.
40. Convener, Online Admission Data Cell for the Year 2015, UoG.
41. Member, PEEF Scholarship Committee for Master level Programs for the Year 2016-17, UoG.
42. Member, National Curriculum Revision Committee (NCRC) of Higher Education Commission on Remote Sensing & Geographical Information Systems
43. Member, National Grassroots ICT Research Initiative (NGIRI, 2015-16) for National level Competition Organized by Ministry of Information Technology, Pakistan.
44. Member, Committee of Academia-Industry Linkages, UoG.
45. Judge, Induction of Startups on Launchpad for PITB Incubation Wing.
46. Judge and Evaluator, Prime Minister's Youth Skills Development Program.
47. Member, PhD Fellowship Selection Committee, FAST-NUCES Islamabad.
48. Member, Trainers Selection Committee for Sports, UoG.
49. Head, Admission Committee at FAST-NUCES CFD Campus.

50. Block In-charge, UET Entry Test 2016 at UoG.
51. Judge and Evaluator, HULT Prize Business Idea Competition.
52. Member, Board of Faculty, Government College University Faisalabad (GCUF).
53. Member, Selection Committee for Administrative Posts in BPS-17 and above at UoG.
54. Member, Departmental Tenure Review Committee (DTRC) of TTS, Government College University Faisalabad (GCUF)
55. Paper Setter/Moderator, Annual System of Examination for 2016-2019, UoG.
56. Co-opted Member, Reviewing/Negotiating Corporate Health Insurance Plan for UoG Employees.
57. Member, Business Plan Competition Committee UoG.
58. Subject Expert/Convener, Selection Committee for Appointment of Faculty on Contract-basis at UoG Hafiz Hayat, Lahore and Sialkot Campuses.
59. Member, Scholarship Award Committee, UoG.
60. Convener, NCEAC Accreditation Committee at UoG & FAST-NUCES CFD Campus.
61. Member, Academic, and Financial Audit UoG, Lahore Campus.
62. Member, Academic Council of UoG and NUCES
63. Member, Faculty/Administrative Staff Academic Audit Committee, Sub-campus LHR (PPP).
64. Member, Appellate Committee to Review Cases of Students Appeals.
65. Convenor, PhD Program Teams (PT) for Self-assessment Report, UoG.
66. Convener, Exam Supervisory Committee (ESC), FAST NUCES CFD Campus.
67. Critic/Inspector, End Term Examination Spring-2017, UoG.
68. Member, Internal Scholarship Award Committee (ISAC) for HEC Need-based Scholarship and Tuition-fee Concession for the Year 2017-2018.
69. Member, IT Equipment Committee for Strengthening/overseeing and Smooth Proceedings of the Procurement Process of the Equipment, UoG.
70. Convener, Curriculum/Exam Committee, UoG.
71. Member, Preparing TORs of MOUs for Academic Collaboration b/w UESTC, China and UoG.
72. Member, Implementation of Roles to Accelerate the Academia-Industry Linkages, UoG.

WORKSHOPS/CONFERENCES ORGANIZED & PARTICIPATED

1. Conference Chair, International Conference on IT and Industrial Technologies (ICIT) held during March 31-April 01, 2026, Chiniot, Pakistan.
2. Member, Technical Program Committee, AICS Conference, Universiti Teknikal Malaysia Melaka (UTeM).
3. Guest of Honour, Independence Day Celebration at Faisalabad Women Chamber of Commerce & Industry (FWCCI) Faisalabad on August 23, 2025.
4. Attended IEEE International Geoscience and Remote Sensing Symposium in Brisbane 2025, Australia from 3-8 August 2025.
5. Guest of Honour, Waris Shah Conference organized by the University of Agriculture Faisalabad on October 21, 2025.

6. Attended the Consultation Session on HEC Revised Curriculum for Computer Science (2025) at University of Agriculture Faisalabad on November 13, 2025.
7. Attended the World Uni Ranking Ceremony at Government College University Faisalabad (GCUF) on November 13, 2025.
8. Attended 4th International Conference on Mathematical Empowerment & Future Trends at Government College Women University Faisalabad (GCWUF) during November 20-22, 2025.
9. Attended the Akhuwat's PATH ceremony at Akhuwat College, Kasur on November 30, 2025.
10. Guest of Honour, International Conference on Natural Products: Biological and Pharmaceutical Applications (NPBPA-2025) at Government College Women University Faisalabad (GCWUF) on December 2, 2025.
11. Attended the 12th Convocation of Government College University Faisalabad (GCUF) on December 4, 2025.
12. Session Chair, the 6th International Conference on Advancements in Computational Sciences (ICACS'25) held at University of Lahore on 18th February, 2025.
13. Guest of Honour, 4th International Conference on Knowledge Based Textiles -2025, Hosted by National Textile University, Faisalabad.
14. Organizer, TEDx held on November 13, 2024 at FAST NUCES CFD Campus.
15. General Chair & Host, International Conference on IT and Industrial Technologies (ICIT) held during December 10 -12, 2024 Chiniot, Pakistan.
16. Program Committee Co-Chair, 2024 IEEE Belt and Road Congress on AI for Sustainable Development held during 22-23 June, 2024 at Hangzhou, China.
17. Session Chair, 5th International Conference on Advancements in Computational Sciences (ICACS) held during 19-20 February, 2024 at University of Lahore, Pakistan.
18. Guest of Honour, 3rd IEEE Summit on Artificial Intelligence in Information and Communication held of November 2, 2023 at University of Faisalabad.
19. General Chair & Host, International Conference on IT and Industrial Technologies (ICIT) held during October 09-10, 2023 Chiniot, Pakistan.
20. Guest of Honour, 4th International Conference on Computing, Mathematics and Engineering Technologies (iCoMET) held during 17-18 March, 2023 at Sukkur IBA University, Pakistan.
21. Organizer, Workshop on Opportunity of Research and Academic Collaboration between Pakistan and Scandinavian Universities held on March 14, 2023 at Higher Education Commission, Pakistan.
22. Session Chair, 4th International Conference on Advancements in Computational Sciences (ICACS) held during 20-22 February, 2023 at University of Lahore, Pakistan.
23. Member, Technical/Scientific Committee for International E-Conference on Bio polymer, Smart and Engineering Materials 2022- ICBSEM2022 held during November 25-26, 2022 at Ethiopia.
24. Member, Steering Committee on 17th ICET Conference held during 29-30 November 2022 at GIKI, Pakistan.
25. Organized, Hands-on One Day Training Workshop on Outcome Based Education held on Thursday August 04, 2022.
26. Organized, Workshop on Emotional and Social Quotient for Effective Pedagogical Skills held on Thursday August 04, 2022.
27. General Chair & Host, International Conference on IT and Industrial Technologies (ICIT) held during October 03-04, 2022 Chiniot, Pakistan.

28. Organizer, Awareness Session on Challenges to National Security and Our Role as Citizens on 31 December 2021.
29. Venue Partner & Organizer, Pakistan IT Professionals Conference (PIPC) held during December 8-9, 2021 at FAST-NUCES CFD Campus.
30. Organized, Seminar on Coordination and Team Management: From a Team Lead Perspective held on Monday, November 15, 2021.
31. Session Chair, Technical Session: Big Data Analytics in Health, Machine Learning and Artificial Intelligence during 7th International Conference on Health GIS: Geo Intelligence for Smart Healthcare on February 25-26, 2021.
32. Organized, Workshop on Enabling Excellence at Higher Education Institutions (HEIs) held on Wednesday January 27, 2021 at FAST-NUCES CFD Campus.
33. Organizer, Training on Quality Hygiene & Hospitality held during January 8-9, 2021 at FAST-NUCES-CFD.
34. Organized, Pedagogical and Assessment Techniques for Hybrid Education by Dr. Shaihd Qamar Research Scientist at the University of Louisville, Kentucky USA held on August 27, 2020.
35. Organizer, TechStars Startup Weekend Faisalabad In partnership with Google for Startups on November 29, 2019.
36. Organizer, TEDx held on April 6, 2016 at Library Auditorium UoG.
37. Organizer, Summit of Emerging Technologies on April 14, 2016 at Library Auditorium UoG.
38. Organizer, TECHIE Empowerment Summit held on April 29, 2016 at UoG.
39. Organizer, E-Gamming and Programming Competition held on April 21 & 25, 2016 at UoG.
40. Organizer, 4th International Workshop on Frontiers of Information Technology during December 20-21, 2006 Islamabad Pakistan, Organized by COMSATS Institute of Technology and sponsored by Higher Education Commission (HEC) Pakistan.

WORKSHOPS/EVENTS AND CONFERENCES PARTICIPATED

1. Led student delegation to the 14th Asia Undergraduate Conference on Computing (AUCC) hosted by Rambhai Barni Rajabhat University (RBRU), Thailand (2026).
2. Attended HBL P@SHA CXO Meetup in Multan, Ramada by Wyndham Hotel on December 12, 2025.
3. Facilitated Farmer visit to UN Women & FAO Project on December 10, 2025.
4. Attended the President of Meezan Bank Limited Business Community meeting, Venue: Serena Hotel FSD on November 27, 2025
5. Attended the 3rd International Conference on Advanced STEAM Education - Evening Soiree at The University of Faisalabad on November 19, 2025.
6. Participated in DataFest 2025, organized by the Pakistan Bureau of Statistics, Islamabad, on November 11, 2025.
7. Attended 2025 IEEE International Geoscience and Remote Sensing Symposium in Brisbane, Australia. August 3-8, 2025
8. Guest of Honour, Independence Day to honor the bravery and sacrifices of Pakistan Armed Forces in the light of their recent and heroic defense of our nation during the recent conflict with India at Faisalabad Women Chamber of Commerce & Industry (FWCCI) Faisalabad on August 23, 2025

9. Attended the CDAO Canada Conference under the theme “Leveraging Generative AI to Transform Data”, on March 26–27, 2025.
10. Attend a session on Artificial Intelligence (AI)-Based Transformations for Education and Industry at Universiti Teknikal Malaysia Melaka (UTeM) on February 25, 2025.
11. Attend the send-off ceremony at FAST Islamabad, where outstanding FASTians have embarked on their journey to IMT Atlantique, France, on January 30, 2025
12. Hosted a delegate from Sheridan College, Canada, during their leadership visit on January 23, 2025, to explore opportunities for students.
13. Workshop on AI for K-12 Classrooms held on September 21, 2024 at LUMS, Pakistan
14. Workshop on Designing Effective Online Learning Experiences held on September 21, 2024 at LUMS, Pakistan
15. International Conference on Accreditation and Internationalization in South Asian HEIs held on June 3, 2024 at HEC Islamabad, Pakistan
16. Workshop on SSAPI (Strategies Support for accreditation of program and Internationalization of South Asian Higher Education Institutes Training) held on May 25-29, 2024 at FAST NUCES Islamabad, Pakistan
17. International Conference on Emerging Trends in Artificial Intelligence and Cyber Security held on May 15-17, 2024 at KFUEIT Rahim Yar Khan, Pakistan
18. Workshop on Higher Education Development and University-Industry Cooperation jointly organized by Jiangxi University, Fudan University, and Peking University from April 16-25, 2024 in Nanchang, Shanghai, Beijing of China.
19. Glimpse to a Modern Pakistan/French-Pakistani Cooperation in Higher Education on November 1, 2022, at LUMS organized by the Embassy of France in collaboration with Campus France
20. Artificial Intelligence Connect Conference organized by Motive’s on July 2022 at PC Lahore
21. International Conference on Substance Abuse, Prevention and Treatment on June 11, 2022, Organized by the Department of Psychology, National University of Medical Sciences (NUMS)
22. Advance Optical Fiber Systems and Li-Fi Demonstration held on August 26, 2021, organized by EPTech and FAST-NUCES CFD Campus
23. Tech Education and Covid-19 organized by Open Islamabad Annual Forum on August 23, 2020 at PNCA, Islamabad
24. Workshop on Importance of Institutional Performance Evaluation (IPE) at Higher Education Institutions (HEIs) at FAST NUCES CFD delivered by Dr. Riaz Ahmed Director Quality Assurance and International Collaboration NUST held on Friday June 21, 2019.
25. Workshop on Design & Development of Curriculum and its Assessment Techniques organized by FAST NUCES CFD on March 14, 2019
26. ISPRS Student Consortium Summer School on Big Geosensing Data Ecosystem: Theory, Processing & Application held during October 20-24, 2018 at UTM Kuala Lumpur, Malaysia
27. The 39th Asian Conference on Remote Sensing (ACRS 2018) Jointly Organized by the Malaysian Remote Sensing Agency and Asian Association on Remote Sensing held during October 15-19, 2018 in Kuala Lumpur, Malaysia
28. Data Science Boot Camp Organized by HEC and NUCES during January 9-13, 2017
29. 5-Day HEC Indigenous On-Campus Training Organized by ORIC Office at UoG, Pakistan in June, 2015

30. Workshop on Encouraging Problem-Solving Research Policy for Enabling Environment on 17-June-2014 organized by Pakistan Science Foundation, PCST, PHMA & IRP, Pakistan
31. Workshop on Intuitive Image analysis with ENV15.0, organized by Geoinformatics Center AIT Bangkok on May 2-3, 2012 Organized by Exelis Osaka, Japan
32. Strategies for Urban Flooding Management Jointly organized by AIT, Polytech, University of Sophia Antipolis/Polytech Nice Sophia and the National University of Singapore/DLR German Space Agency, Germany during June 28-29, 2012
33. Expert Group Meeting on Geo-Reference Disaster Risk Management Information System in Asia-Pacific Region, during February 15-17, 2012. Organized by UN-ESCAP (Economic and Social Commission for Asia and the Pacific)
34. Winter School in Water Quality and Testing jointly organized by Mutah University, BEN Hayyan, and DAAD held from April 2-9, 2011 at Jordan
35. 2011 ProSPER.Net Young Researchers' School on Learning from Japan's Experience on Urban Sustainability, Organized by Hosei University, Japan, August 1-12, 2011
36. The Royal Thai Air Force Academy English Camp Project during April 19-21, 2010 at Samut Songkram, organized by AIT Career Center, Thailand
37. Professional Development Needs Assessment and APMAS Startup Workshop during July 6-11, 2010 organized by AIT Extension (Professional Education for Capacity Building) and sponsored by IFAD (International Fund for Agricultural Development)
38. International Conference on Sustainable Development in the Context of Climate Change, Asian Institute of Technology during September 24-25, 2009 sponsored by UNESCAP (United Nations Economic and Social Commission for Asia and the Pacific)
39. 2nd International Conference on Geoinformation Technologies for Natural Disaster Management, & Rehabilitation held during January 30-31, 2009 at Thailand
40. International Training Course under ProGENY Project on Global Navigation Satellite System (GALILEO) Education Tools during November 21-22, 2008 organized by ISMB and Politecnico di Torino, Italy
41. Symposium on Pedagogy, organized by FAST-NUCES, Pakistan
42. 2nd Annual Business & Technology Conference (BIZTECH'15), FAST-NUCES, Pakistan

LIST OF SELECTED PRESENTATIONS

1. Panelist at Innovative Pakistan 2026 at The University of Faisalabad, Pakistan on May 19, 2026.
2. Talk on Mentoring Session on Transforming Higher Education by AI at NFC-IET Multan on May 14, 2026.
3. Panelist, IEEE Faisalabad Students, Young Professionals, Women in Engineering Congress (Theme: "Fuelling Passion of Future Innovators"), Sitara Marquee, Faisalabad on October 4, 2025
4. Invited Talk on "Seeing the Unseen: Remote Sensing & GIS for Smart Decision-Making", University of Alberta in Edmonton, Canada on April 4, 2025.
5. Invited talk at UTeM Malaysia on Machine Learning and Remote Sensing Integration for Addressing Society Challenges on October 28, 2024
6. Invited talk at Faculty of Information Technology on Remote Sensing & Geospatial Technologies for Sustainable Development at Monash University Australia on October 16, 2024

7. Invited talk at [GAITC 2024](#): Big Data Platforms Supporting Sustainable Development on June 22, 2024, Hangzhou, China
8. Invited Talk, on [Belt and Road Forum on Digital Earth](#) (BRFonDE 2023), December 6-8, 2023 Beijing,ing China
9. Keynote Speech, on 5th ICCSAT-2023 at Lahore Garrison University on November 22-23, 2023
10. Panelist, E-commerce Pro - Agencies & Freelancers Summit at Lahore Chamber of Commerce & Industry on 16-July, 2022
11. Panelist, 14th IEEE Pakistan Student/YP/WIE/SIGHT Congress during 26-27 February 2022 at Faisalabad
12. Panelist for Leaders Talks on Bridging Academia/Industry for Cyber Maturity at BSidIslamabad,bad 7-8 November 2020
13. Invited Discussion, on Eco-System of Faisalabad - Challenges & Opportunities with Startup Grind Faisalabad organized by CIRCLE on 8th October 2020
14. Invited Talk, [Tech Education and COVID-19](#) organized by Startup Grind Faisalabad on 22nd August 2020
15. Presentation, at Seventh International Conference on Remote Sensing and Geo-information of Environment(RSCy2019), organized by Cyprus Remote Sensing Society held on March 18-21, 2019
16. Presentation, he Technical Commission III Symposium (Beijing, China) on May 07-10, 2018 Beijing China
17. Invited Speaker, during AgMIP-Pakistan for Climate Change Adaptation Strategies on Ensure Food Security during 16-17 January 2014 at UAF, Pakistan
18. Guest Speaker, for Seminar on Emerging Technologies and Trends in Computer Science held on January 18, 2014 at UAF, Pakistan
19. Trainer, for 3 Days Workshop on Innovative Statistical Tools for Data Analysis “SPSS, GIS & SARA (WHO)”, organized by WHO and Institute of Public Health Pakistan during January 21-23, 2014
20. Invited Talk, Consultative Meeting for eHealth Strategic Planning on “Vision and Key Components for eHealth” organized by WHO, Govt. of Pakistan and COMSATS during 1-2 May, 2014
21. Trainer, Use of Innovative Statistical Tools for Data Analysis (SPSS, GIS & SARA) at Institute of Public Health, Lahore Organized by WHO from January 21-23, 2014
22. Keynote Speech, at ICBIM 2013, International Society of Universal Research in Science, Pakistan held during 27-28 April 2013 at Abbottabad, Pakistan
23. Delivered Talk, on Geo-Spatial Technologies for Spatial Epidemiology, on 9th ISPRS Summer School held during 25-30 October, 2013 Bali Indonesia
24. Invited Talk, on Geo-Information technologies for Social Issues at 11th International Conference on Frontiers of Information Technology (FIT) held at Islamabad, Pakistan from 16-18 Dec 2013 supported by IEEE CS Society.
25. Oral Presentation, on Remote Sensing & GIS tools for Public Health at 4th International eHealth Conference held at Karachi, Pakistan during 22-23 Nov 2013
26. Invited Talk, Geo-spatial Technologies for Monitoring Climate and Environment at 34th ACRS Summer School held at Bali, Indonesia during 25-31 Oct 2013

27. Oral Presentation, on Identification of Urban and Peri-urban Favorable Breeding Habitat for Aedes mosquitoes at 2nd Symposium on Advances in Geospatial Technologies for Health at Arlington, VA, USA during 25-30 August 2013
28. Oral Presentation, on Crop Identification, Forecasting, and Stress Detection using Hyper Spectral Remote Sensing Sydney Convention and Exhibition Center 10-15 April 2011, Australia
29. Trainer, Advance Satellite Image Processing for LULCM Project for Bhutan from 26-March to 13 April, 2012 at Asian Institute of Technology (AIT), Thailand
30. Trainer, GIS and Remote Sensing in Irrigation Planning, from 6-June to 1-July, 2011, Organized by AIT and supported by “Ministry of Energy and Water (MEW), Afghanistan
31. Oral Presentation, on Role of Remote Sensing to Extract Water Quality Parameters and its Management organized by EXCEED (Technische Universitat Braunschweig Germany) and Mutah University Jordan, Sponsored by DAAD on 6th April 2011 Aqaba, Jordan
32. Oral Presentation, at 3rd International Conference on Geoinformation Technology for Natural Disaster Management & Rehabilitation during 19-20 October, 2010 at Chiang Mai, Thailand
33. Poster Presentation, on Geospatial Characterization of Dengue Risk in Urban Environment during 26-28 July 2010 at Map Asia & ISG 2010 Malaysia
34. Presentation, on “Vector-borne Diseases and Role of Remote Sensing & GIS, Current & Future Research Perspective” for Outreach International Participant from Department of Remote Sensing, Faculty of Go information Science & Engineering, University Technology of Malaysia on 16th December-2009

SELECTED PUBLICATIONS

1. U. Ghous, A. A. Cheema, **M. S. Sarfraz**, Q. U. Zaman, A. Hussain, and M. H. F. Bin Md Fauadi, “Image-based Recommender System for Stylistically Complementary Products,” *IEEE Access* : Submitted: July 2026
2. S. Ajmal, M. Shoaib, F. Iqbal, A. Azam, **M. S. Sarfraz**, and E. Boonchieng, “RST-Enhanced Depression Detection: A Feature-Fusion Ensemble Framework,” *Algorithms* : Submitted, July 2026
3. A. A. Tabassam, **M. S. Sarfraz**, S. Rafiq, M. Fayyaz. “Remote Sensing and AI-Driven Sustainable Cotton Farming for a Resilient Future”. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - XXV ISPRS Congress, Toronto, Canada, July 4-11, 2026.
4. R. Ilyas, **M. S. Sarfraz**, A. A. Tabassam, H. M. Danish. “A Comprehensive Framework for Remote Sensing and AI-Driven Real-Time Cotton Health Monitoring and Disease Detection”. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - XXV ISPRS Congress, Toronto, Canada, July 4-11, 2026.
5. Azam. A, **M. S. Sarfraz**, Q. U. Zaman, A. A. Cheema, A. Ali, B. A. Talpur. “From reviews to preference profiles: LLM-based transfer for cross-domain recommendation”. *Egyptian Informatics Journal*, 34, 100981, 2026.
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21. M.H. Musaddiq, **M. S. Sarfraz**, N. Shafi, R. Maqsood, A. Azam, M. Ahmad, "Predicting the Impact of Academic Key Factors and Spatial Behaviors on Students' Performance", Applied Sciences, 2022.
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ACADEMIC CONTRIBUTION

- | | |
|------------------------------|---|
| 1. Advanced GIS | 10. Spatial Digital Twins |
| 2. Geo-Informatics | 11. Research Methodology |
| 3. Open Source GIS | 12. Professional Issues in IT |
| 4. Database Systems | 13. Advanced Operating Systems |
| 5. Operating Systems | 14. Research Planning & Techniques |
| 6. Spatial Analytics | 15. Spatial Decision Support Systems |
| 7. Advanced Topics in CS | 16. Tools and Techniques For Data Science |
| 8. Remote Sensing and GIS | 17. Advancement in Geo-Information Technology |
| 9. Introduction to Computing | 18. Research Trends in Spatial Data Visualization |

PEER REVIEW AND EDITORIAL SERVICES

- | | | | |
|------------------------|-------------------------------|---|---|
| 1. Water | 16. NPJ Digital Medicine | 26. Infectious Diseases of Poverty | 34. Environmental Monitoring and Assessment |
| 2. Atoms | 17. BMC Public Health | 27. Tropical Medicine and Health | 35. ISPRS International Journal of Geo-Information |
| 3. Toxins | 18. Discover Environment | 28. International Journal of Digital Earth | |
| 4. Animals | 19. Discover Public Health | 29. Turkish Journal of Earth Sciences | 36. Jordanian Journal of Computers and Information Technology |
| 5. Forests | 20. Transactions in GIS | 30. International Journal of Geoinformatics | |
| 6. Sensors | 21. Applied Soft Computing | 31. Indian Journal of Science and Technology | 37. International Journal of Environmental Research and Public Health |
| 7. Agronomy | 22. Earth Science Informatics | 32. International Journal of Health Geographics | |
| 8. Aerospace | 23. Journal of Cyber Security | 33. Security and Communication Networks | 38. International Journal of Applied Earth Observation and Geoinformation |
| 9. The Microbe | 24. BMC Infectious Diseases | | |
| 10. Agriculture | 25. Discover Applied Sciences | | |
| 11. IEEE Access | | | |
| 12. Sustainability | | | |
| 13. Applied Sciences | | | |
| 14. Remote Sensing | | | |
| 15. Scientific Reports | | | |

1. **Mr. Ahmed Ali Tabassum** 2024 – Present
Remote Sensing-Based Crop Disease Detection for Precision Agriculture using Deep Learning PhD
2. **Mr. Ali Hamza** 2024 – Present
Intrusion Detection System in O-RAN PhD
3. **Ms. Mahzaib Younus** 2025 – Present
Deep learning for urban feature extraction from high resolution satellite imagery PhD
4. **Mr. Umer Iqbal** 2024 - Present
Discovering Archaeological Sites and Land Cover/land-use Change in Chiniot using Remotely Sensed Images PhD
5. **Mr. Muhammad Haseeb Arshad** 2023 - Present
Vulnerable Disease Prediction Using Remote Sensing/GIS PhD
6. **Mr. Awais Azam** 2022 - 2025
A Unified Thematic Mapping Approach for Cross-Domain Personalization and Cold Start Alleviation PhD
7. **Mr. Adeel Ashraf Cheema** 2021- 2024
Latent User-profiling for IoT facilitated Cross Domain Recommender Systems PhD
8. **Mr. Muhammad Usman** 2021- 24
A Blockchain based Hybrid Access Control Model for IoT using Machine Learning PhD
9. **Mr. Ch. Usman Ghous** 2020 - 24
Active Transfer Learning for Hyperspectral Image Classification PhD
10. **Mr. Shahbaz Ahmed** 2014 – 20
Web GIS-based Surveillance and Prediction System for Dengue Virus in Punjab Pakistan Ph.D.
11. **Mr. Rameez Ahmed** 2023 – 2026
AI-Driven Flood Impact Analysis on Agriculture in Pakistan using Remote Sensing MS
12. **Ms. Nawal Fatima** 2023 – 2025
Geospatial Cotton Crop Mapping and Land Suitability using Machine Learning and Remote Sensing MS
13. **Ms. Rohma** 2024 – 2025
AI and Remote Sensing-Based Cotton Disease Detection in Pakistan MS
14. **Ms. Esha Iftikah** 2022 – 2024
Object Detection for Indoor Scene Using Deep Learning MS
15. **Ms. Wania Fatima** 2022 – 24
Influential Factors Affecting Students Academic Performance in Online Education MS
16. **Ms. Kashaf Shakoor** 2021 – 23
Dengue Risk Assessment Using real Time Climate and Enviornment Staellites Data MS
17. **Ms. Areeba Waseem** 2021 – 23
Trajectory and Hotspot Analysis of Hate Speech on Social Media Networks MS
18. **Ms. Malahat Fatima** 2017 – 21
Geo Spatial Technologies for Real Time Monitoring of Vector borne Diaseases and Forecasting Possible Threats MS

19. Mr. Umair Ashfaq	2020 – 22
Social Media Warn Audience Prediction for e-commerce Using Machine Learning	MS
20. Ms. Mahnoor Khalid	2020 – 22
Plants Health Detection using Deep Learning	MS
21. Ms. Samia Aziz	2020 – 22
Geo Spatial Mapping of Hate Speech Prediction in Roman Urdu	MS
22. Ms. Momna Javaid	2020 – 22
WebGIS-Based Real-Time Surveillance and Response System for Vector Borne Infections Diseases	MS
23. Ms. Aroosa Razzaq	2019 – 21
Maize Plants Disease Classification Using Multispectral Images	MS
24. Ms. Rameen Zehra	2018 – 21
Temporal and Spatiotemporal Sentiment Analysis of Tourists on Flickr	MS
25. Mr. Muhammad Hammad Musaddiq	2018 – 21
Geospatial and Machine Learning Techniques for Predicting Students Academic Performance	MS
26. Mr. Talha Munir	2018 – 21
Air Pollution Prediction affecting Acute Respiratory Infection Disease using Remotely Sensed Images	MS
27. Ms. Nida Hussain	2018 – 21
Environmental Constraints of Optimization Crop Yield Prediction	MS
28. Ms. Noor Asim	2018 – 21
Weed Identification using Vegetation indices and Multispectral UAV Imaging	MS
29. Ms. Farwa Ahmad	2017 – 20
Expert Recommendation System in Community Question Answering Forum Based on Users Profiles	MS
30. Ms. Areeba Umair	2018 – 20
Prediction of Career Projection Trajectories of Pakistani Graduates using LinkedIn Data	M.Phil.
31. Ms. Sahar Ajmal	2017 – 19
PUB-VEN: A Hybrid Expert System for Suggesting Publication Venue	M.Phil.
32. Ms. Maryam Saeed	2016 – 18
Web-based Intervention and Analysis System for the Parents of Depressed and Anxious Adolescent	M.Phil.
33. Ms. Madiha	2016 – 18
Spatial Inter-relationship of Quality of Life with Socio and Demographic Factors	M.Phil.
34. Mr. Shahbaz Baig	2015 – 17
Analysing Spatial Dependencies of Contaminated Crops using Geospatial Technologies	M.Phil.
35. Ms. Rafia Ilyas	2012 – 14
Effective Solution of University Time Tabling using Practical Swarm Optimizer	M.Phil.
36. Mr. Abdul Shakoor	2010 – 12
Security Technique in Mobile Clouds to Ensure Malware Prevention	M.Phil.

ACTIVITIES CONDUCTED AND SUPERVISED

1. Convocations	2019, 2021, 2022, 2023, 2024 & 2025
2. TEDx Organizer	2016, 2024 & 2025
3. New Students Orientations	2019, 2021, 2022, 2023, 2024 & 2025
4. Semester Positions Medal Distribution	2019, 2021, 2022, 2023, 2024, 2025 & 2026
5. Pakistan Engineering Council Visits	2019, 2021, 2022, 2023, 2025 & 2026
6. PREE visit for BS (BA & FT), MS (CS, DS & EE), MBA and PhD (CS & EE)	2026
7. National Computing Council Accreditation Visits	2017, 2019, 2020, 2021, 2023, 2024 & 2026
8. Institutional Performance Evaluation Visits	2019, 2020, 2022, 2023 & 2024
9. Faculty Development Workshops & Book Fair	2021, 2022, 2023, 2024 & 2025
10. SAR Visits of BS/MS/PhD Programs Visits	2019, 2020, 2021, 2022, 2023, 2024 & 2025
11. Industrial Advisory Board Meetings	2019, 2021, 2022, 2023, 2024, 2025 & 2026
12. Job Fair at FAST-NUCES CFD Campus	2019, 2021, 2022, 2023, 2024, 2025 & 2026
13. Alumni Home Comings	2019, 2021, 2022, 2023, 2024 & 2025
14. Daira (Extra and Co-Curriculum Activities Events)	2019-2022, 2023, 2024 & 2025
15. Launch of New Degree Programs PhD (CS & EE), MS (CS & DS), BS (CE, AI & SE, Business Analytics and Financial Technology)	

INITIATED AND EXECUTED MEMORANDA OF UNDERSTANDING (MoUs)

1. **Bitlogia Digital:** To establish a collaborative framework between academia and industry through internships, joint research, industry-led training, and career development initiatives in emerging technologies.
2. **Universiti Teknikal Malaysia Melaka (UTeM):** To establish a framework for cooperation in education, research, student and staff exchanges, and other mutually agreed academic and professional initiatives.
3. **City University Malaysia:** To establish a framework for international collaboration in joint academic programs, student and faculty mobility, and collaborative research.
4. **Linnaeus University, Sweden:** To establish a framework for collaboration in joint research, student and faculty exchanges, and the sharing of academic publications.
5. **STN, Inc., USA:** To facilitate secure collaboration in Artificial Intelligence and Robotics research and innovation under a Mutual Non-Disclosure Agreement (NDA).
6. **University of São Paulo (USP), Brazil:** To establish a framework for collaboration through faculty and student exchanges, joint research, shared academic programs, and scientific events.
7. **South Punjab Police Department:** To establish collaboration for financial assistance to the children of police personnel and jointly implement IT capacity-building and digitization initiatives.
8. **Mukhtar A. Sheikh Memorial Welfare Hospital:** To establish a collaborative framework for providing corporate healthcare services, diagnostic discounts, and other medical benefits to the university's faculty, staff, and their dependents.
9. **Kaarvan Crafts Foundation (KCF), Pakistan:** To establish a collaborative framework for curriculum support, mentorship, and digital skills training for women under the UN Women D4WEE initiative.

10. **Chughtai Lab (Blue Card):** To establish a collaborative framework for providing discounted healthcare, diagnostic, and radiology services to the university community through the Virtual Blue Card Program.
11. **Times Consultants:** To establish a collaborative framework for streamlining overseas admissions and enhancing global opportunities for students through dedicated guidance and counseling services.
12. **Study Global:** To establish a collaborative framework for enhancing student access to international educational opportunities through structured guidance and personalized counseling.
13. **National Silk & Rayon Mills Ltd. (NSRM):** To establish a collaborative framework for bridging the academia-industry gap through internships, joint research, and industry-supported projects.
14. **AHZ Pakistan:** To establish a collaborative framework for expanding global exposure and educational opportunities for students.
15. **Akhuwat Foundation:** To establish a collaborative framework for promoting quality education in underserved communities across Pakistan through joint academic and outreach initiatives.
16. **ASK Development:** To establish a collaborative framework for empowering students and strengthening academia-industry linkages.
17. **Bloctech Solutions:** To establish a collaborative framework for strengthening industry-academia linkages through joint initiatives and knowledge exchange.
18. **Cogent Labs:** To establish a collaborative framework for bridging the academia-industry gap through student exposure to emerging technologies and industrial practices.
19. **Content Arcade:** To establish a collaborative framework for providing scholarship opportunities to deserving and high-achieving BSCS and BSSE students.
20. **Crewlogix Technologies:** To establish a collaborative framework for promoting professional development, emerging technologies, and skill enhancement through regular webinars.
21. **DevNation:** To establish a collaborative framework for providing insights into emerging technologies and industrial projects.
22. **E-Med Society - Faisalabad Medical University:** To establish a collaborative framework for joint initiatives in health, education, and corporate social responsibility (CSR).
23. **EPTeck Technologies Pvt. Ltd.:** To establish a collaborative framework for strengthening industry-academia linkages through joint research, internships, and career opportunities.
24. **Faisalabad I.T Companies Organization – FITCO:** To establish a collaborative framework for promoting research, industry linkages, training, education, and employment opportunities with FITCO member companies.
25. **Fastdev:** To establish a collaborative framework with Fastdev as the official e-ticketing partner for university events.
26. **Game Train:** To establish a collaborative framework for empowering youth through quality education, technology-focused skills development, industry mentorship, and career opportunities.
27. **Kaavish Foundation:** To establish a collaborative framework for organizing fundraising initiatives, blood donation drives, and medical camps.
28. **Kay & Emms (Pvt.) Ltd.:** To establish a collaborative framework for supporting financially challenged students through skill development aligned with industry needs.
29. **Migrant Resource Center:** To establish a collaborative framework for promoting academic and employment opportunities abroad through guidance sessions and safe migration awareness.

30. **Masood Textile Mills Limited:** To establish a collaborative framework for strengthening academia-industry collaboration through independent external evaluation and quality assurance of the MTM Corporate Academy by FAST-NUCES, CFD faculty.
31. **Netixsol:** To establish a collaborative framework for providing students with exposure to the blockchain industry and emerging technologies.
32. **Newage Cables:** To establish a collaborative framework for sponsoring the full tuition fees of deserving and talented students.
33. **OZI Group:** To establish a collaborative framework for strengthening industry-academia linkages through internships, placements, and collaborative initiatives.
34. **POA Solutions:** To establish a collaborative framework for advancing technology, promoting student excellence, and strengthening industry-academia linkages.
35. **Qbatch:** To establish a collaborative framework for providing students with professional experience through internships and industry-based final-year projects with Qbatch.
36. **Read Pakistan:** To establish a collaborative framework for promoting literary and academic activities at FAST-NUCES CFD.
37. **Sadaqat Limited:** To establish a collaborative framework for strengthening industry-academia linkages and supporting financially challenged, talented students through educational assistance.
38. **Systems Limited:** To establish a collaborative framework for promoting student exposure to emerging technologies, industrial projects, skill development, research, and career opportunities.
39. **Technupur:** To establish a collaborative framework for advancing technology, promoting student excellence, and strengthening industry-academia linkages through shared initiatives.
40. **VANAR:** To establish a collaborative framework for empowering the youth of Pakistan through learning, employment, and entrepreneurship opportunities.

STRATEGIC CAMPUSES DEVELOPMENT AND RESOURCE ALLOCATION

As Director of NUCES Chiniot-Faisalabad (CFD) and Founding Director of the Multan Campus, provided strategic leadership in managing **PKR 9.576 billion** in institutional resources (2020–2026), driving campus growth, digital transformation, research excellence, operational efficiency, and student success.

Sr.	Strategic Investment Area	PKR (Millions)
1	Infrastructure Development & Campus Expansion	2,508
2	Development of FAST-NUCES Multan Campus	2,500
3	Faculty & Staff Development	2,029
4	Operational Excellence & Campus Services	1,693
5	Student Financial Assistance (Internal & External)	572
6	Computing Infrastructure & Digital Transformation	204
7	Research & Innovation Initiatives	70
Total Strategic Resource Allocation		9,576

Country	From	To	Nature	Purpose
UAE	11-June-2026	13-June-2026	Personal	Tourism
Azerbaijan	03-June-2026	11-June-2026	Personal	Tourism
Thailand	02-Feb-2026	08-Feb-2026	Official	The Asia U.Conf. on Comp.
UAE	20-Dec-2025	10-Jan-2026	Personal	Tourism
Australia	02-Aug-2025	10-Au-2025	Official	Geoscience and RS Symp.
China	15-Jun-2025	20-Jun-2025	Official	CPEC Univs. Consortium
Canada	23-Mar-25	12-Apr-25	Official	Invited Talk & Collaboration
Qatar	22-Mar-25	23-Mar-25	Personal	Tourism
Malaysia	23-Feb-2025	01-Mar-2025	Official	Univs. Collaboration
UAE	21-Dec-2024	05-Jan-2025	Personal	Tourism
Malaysia	26-Oct-2024	29-Oct-2024	Official	UTeM & City University
Australia	15-Oct-2024	26-Oct-2024	Official	ISPRS Symposium
Thailand	11-Oct-2024	14-Oct-2024	Personal	Tourism
Singapore	08-Oct-2024	11-Oct-2024	Personal	Tourism
Malaysia	05-Oct-2024	08-Oct-2024	Official	Collaboration with UiTM
China	21-June-2024	25-June-2024	Official	Congress on AI
China	15-Apr-2024	26-Apr-2024	Official	Workshop
China	01-Dec-2023	10-Dec-2023	Official	Conference
Saudi Arabia	23-05-2023	05-Jul-2023	Personal	Hajj
Saudi Arabia	10-Dec-2022	25-Dec-2022	Personal	Umrah
Cyprus	19-Mar-2019	24-Mar-2019	Official	Conference
Malaysia	13-Oct-2018	25-Oct-2018	Official	Conference
China	06-May-2018	11-May-2018	Official	Conference
UAE	03-May-2018	06-May-2018	Personal	Tourism
India	04-Dec-2014	12-Dec-2014	Official	Conference
Indonesia	24-Oct-2013	01-Nov-2013	Official	Workshop Trainer
USA	24-Aug-2013	10-Sep-2013	Official	Conference
Thailand	13-Aug-2013	23-Aug-2013	Personal	Tourism
Sri Lanka	06-Nov-2012	10-Nov-2012	Official	Conference
Japan	31-Jul-2011	13-Aug-2011	Official	Cultural Activities
Australia	10-Apr-2011	23-Apr-2011	Official	Conference
Jordan	31-Mar-2011	08-Apr-2011	Official	Workshop
Japan	01-Aug-2010	18-Mar-2011	Official	Visiting Researcher
Malaysia	25-Jul-2010	29-Jul-2010	Official	Conference
Thailand	23-Jan-2008	22-Dec-2012	Official	Doctoral Degree

BIOGRAPHY

Dr. Muhammad Shahzad Sarfraz is a Professor of Computer Science, Director of the Chiniot–Faisalabad Campus, and Founding Director of the Multan Campus at FAST - National University of Computer and Emerging Sciences (FAST-NUCES), Pakistan. He has nearly two decades of academic, research, and executive leadership experience in Computer Science and Geospatial Technologies, specializing in Geospatial Artificial Intelligence (GeoAI), Remote Sensing and Geographic Information Systems (GIS), Spatial Data Science, and Location Intelligence.

His research focuses on AI-driven geospatial solutions for sustainable agriculture, climate resilience, digital health, and natural resource management using machine learning, remote sensing, UAV analytics, and intelligent geospatial decision-support systems. He has authored more than 60 peer-reviewed publications, receiving over 1700 citations with an h-index of 22 and an i10-index of 33 (Google Scholar). He has secured competitive research funding, supervised numerous Ph.D. and M.S. researchers, and established national and international research collaborations. His research excellence has been recognized through the FAST-NUCES Research Productivity Award for seven consecutive years (2020-2026) and the COMSATS University Islamabad Research Productivity Award (2014).

Dr. Sarfraz has served as a Visiting Researcher at the National Institute of Informatics (NII), Japan, and collaborates with leading universities and research organizations across Asia, Australia, Europe, and North America. He is a Senior Member of IEEE and a member of ACM, the Geological Society of America (GSA), and the Canadian Remote Sensing Society (CRSS). He serves as an editor, peer reviewer, conference chair, keynote speaker, research grant reviewer, and invited Ph.D. dissertation evaluator for leading journals, conferences, funding agencies, and prestigious universities. He has also established strategic national and international research collaborations through Memoranda of Understanding (MoUs), contributing to the advancement of AI and geospatial sciences.

His research, academic leadership, and professional service have advanced the application of artificial intelligence and geospatial technologies to address critical challenges in agriculture, environmental sustainability, digital health, and natural resource management, while contributing to the growth of research, innovation, and higher education.