

Dr. Muhammad Shahid Farid

Assistant Professor

Department of Computer Science,

University of the Punjab,

Syed Kabir Ali Shah Road, Lahore - 54590, Pakistan

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Profile Summary

Research Publications:	54	Highest Qualification:	PhD (Italy)
Journal:	31	Postdoc:	Qatar University (Qatar)
Conference:	21	Research Grants:	6
Patents:	2	Supervised Theses:	14 (MPhil)
Citations:	512	[i10-index, h-index]:	[20, 13]
Publication Impact Factor:	107*, 92 [†]	RG Score:	24

Education

Postdoc [Feb. 2017]

Department of Computer Science and Engineering,
Qatar University, Doha, Qatar

Ph.D. Computer Science [Dec. 2015]

Università degli Studi di Torino, Torino, Italy

Dissertation title: Challenges in 3D Video Processing: Coding, View Synthesis Enhancement and Quality Evaluation

Advisor: Prof. Marco Grangetto

M.Phil. Computer Science [Sep. 2009]

University of the Punjab, Lahore, Pakistan

Thesis title: Image Morphing in Frequency Domain

Advisor: Prof. Arif Mahmood

M.Sc. Computer Science [Mar. 2006]

University of the Punjab, Lahore, Pakistan

Bachelor of Computer Science (BCS) [Sep. 2003]

University of the Punjab, Lahore, Pakistan

*Total publication impact factor calculated using the journal's latest impact factors.

[†]Total publication impact factor calculated using the journal's impact factors in year the paper was published.

Research Interests

My current research interests include:

- Information Fusion - Blur Segmentation - Gait Biometrics - Image Quality Assessment
- 3DTV Technologies - Remote Sensing - Object Segmentation - Medical Image Analysis

Journal Publications

1. R. Mansoor, M.S. Farid, M.H. Khan, A. Maqsood, "A Layered Approach for Quality Assessment of DIBR-Synthesized Images," *Wireless Communications and Mobile Computing*, vol. 2021, Article ID 8377936, pp. 1-14 pages, Nov. 2021 [IF: 2.336]
2. M.H. Khan, M.S. Farid, M. Grzegorzec, "Vision-based approaches towards person identification using gait," *Computer Science Review*, vol. 42, pp. 100432, Nov. 2021 [IF: 7.872]
3. T. Fatima, M.S. Farid, "Quality assessment of 3D synthesized images based on structural and textural distortion," *Multimedia Tools and Applications*, pp. 1–21, Sep. 2021 [IF: 2.757]
4. T. Haider, M.S. Farid, R. Mahmood, A. Ilyas, M.H. Khan, S.T.A. Haider, M.H. Chaudhry, M. Gul, "A Computer-Vision-Based Approach for Nitrogen Content Estimation in Plant Leaves," *Agriculture*, vol. 11, no. 8, article 766, Aug. 2021 [IF: 2.925]
5. F. Amjad, M.H. Khan, M.A. Nisar, M.S. Farid, M. Grzegorzec, "A Comparative Study of Feature Selection Approaches for Human Activity Recognition using Multimodal Sensory Data," *Sensors*, vol. 21, no. 7, article 2368, Mar. 2021 [IF: 3.576]
6. H.M.U.H. Alvi, M.S. Farid, M.H. Khan, M. Grzegorzec, "Quality Assessment of 3D Synthesized Images Based on Textural and Structural Distortion Estimation," *Applied Sciences*, vol. 11, no. 6, article 2666, Mar. 2021 [IF: 2.679]
7. A. Maqsood, M.S. Farid, M.H. Khan, M. Grzegorzec, "Deep Malaria Parasite Detection in Thin Blood Smear Microscopic Images," *Applied Sciences*, vol. 11, no. 5, article 2284, Mar. 2021 [IF: 2.679]
8. M.H. Chaudhry, A. Ahmad, Q. Gulzar, M.S. Farid, H. Shahabi, N. Al-Ansari, "Assessment of DSM Based on Radiometric Transformation of UAV Data," *Sensors*, vol. 21, no. 5, article 1649, Feb. 2021 [IF: 3.576]
9. A. Ilyas, M.S. Farid, M.H. Khan, M. Grzegorzec, "Exploiting Superpixels for Multi-Focus Image Fusion," *Entropy*, vol. 23, no. 2, article 247, Feb. 2021 [IF: 2.524]
10. R. Zafar, M.S. Farid, M.H. Khan, "Multi-focus Image Fusion: Algorithms, Evaluation, and a Library," *Journal of Imaging*, vol. 6, no. 7, article 60, July 2020 [HEC - X Category, CiteScore 4.8]
11. M.H. Khan, M. Zöller, M.S. Farid, M. Grzegorzec, "Marker-Based Movement Analysis of Human Body Parts in Therapeutic Procedure," *Sensors*, vol. 20, no. 11, 3312, May 2020 [IF: 3.576]
12. M.H. Khan, M.S. Farid, M. Grzegorzec, "A non-linear view transformations model for cross-view gait recognition," *Neurocomputing*, vol. 402, pp. 100–111, Apr. 2020 [IF: 5.719]

13. N. Khehrah, M.S. Farid, S. Bilal, M.H. Khan, "Lung nodule detection in CT images using statistical and shape-based features," *Journal of Imaging*, vol. 6, no. 2, article 6, Feb. 2020 [HEC - X Category, CiteScore 4.8]
14. M. Saleem, M.S. Farid, S. Saleem, M.H. Khan, "X-ray image analysis for automated knee osteoarthritis detection," *Signal, Image and Video Processing*, vol. 14, Issue 6, pp. 1079–1087, Feb. 2020 [IF: 2.157]
15. T. Fatima, M.S. Farid, "Automatic Detection of *Plasmodium* Parasites from Microscopic Blood Images," *Journal of Parasitic Diseases*, vol. 44, Issue 1, pp. 69–78, Sep. 2019 [HEC - Y Category, CiteScore 1.8]
16. M.S. Farid, M. Lucenteforte, M. Grangetto, "No-Reference Quality Metric for HEVC Compression Distortion Estimation in Depth Maps," *Signal, Image and Video Processing*, vol. 14, Issue 1, pp. 195–203, Jul. 2019 [IF: 1.794]
17. M.H. Khan, M.S. Farid, M. Grzegorzec, "A Generic Codebook based Approach for Gait Recognition," *Multimedia Tools and Applications*, vol. 74, Issue 24, pp. 35689–35712, Jul. 2019 [IF: 2.313]
18. M.H. Khan, M.S. Farid, M. Grzegorzec, "Spatiotemporal features of human motion for gait recognition," *Signal, Image and Video Processing*, vol. 13, Issue 2, pp. 369–377, Sep. 2018 [IF: 2.157]
19. M.H. Khan, M. Schneider, M.S. Farid, M. Grzegorzec, "Detection of infantile movement disorders in video data using deformable part-based model," *Sensors*, vol. 18, no. 10, pp. 3202, Sep. 2018 [IF: 3.031]
20. M.H. Khan, J. Helsper, M.S. Farid, M. Grzegorzec, "A computer vision-based system for monitoring vojta therapy," *International Journal of Medical Informatics*, vol. 113, pp. 85–95, Feb. 2018 [IF: 2.731]
21. M.S. Farid, A. Mahmood, S.A. Al-maadeed, "Multi-focus image fusion using Content Adaptive Blurring," *Information Fusion*, vol. 45, pp. 96–112, Jan. 2018 [IF: 13.669]
22. M.S. Farid, M. Lucenteforte, M. Grangetto, "DOST: a distributed object segmentation tool," *Multimedia Tools and Applications*, vol. 77, Issue 16, pp. 20839–20862, Dec. 2017 [IF: 2.01]
23. M.S. Farid, M. Lucenteforte, M. Grangetto, "Evaluating virtual image quality using the side-views information fusion and depth maps," *Information Fusion*, vol. 43, pp. 47–56, Nov. 2017 [IF: 10.716]
24. H. Tazeem, M.S. Farid, A. Mahmood, "Improving security surveillance by hidden cameras," *Multimedia Tools and Applications*, Volume 76, Issue 2, pp. 2713–2732, Jan. 2017 [IF: 1.541]
25. M.S. Farid, A. Mahmood, M. Grangetto, "Image De-fencing Framework with Hybrid Inpainting Algorithm," *Signal, Image and Video Processing*, vol. 10, Issue 7, pp. 1193–1201, Oct. 2016 [IF: 1.102]
26. N. Samad, M.H. Chaudry, M. Ashraf, M. Saleem, Q. Hamid, U. Babar, H. Tariq, M.S. Farid, "Sediment Yield Assessment and Identification of Check Dam Sites for Rawal Dam Catchment," *Arabian Journal of Geosciences*, vol.9, no.6, pp. 1–15, May 2016 [IF: 0.955]

27. Q. Hamid, M.H. Chauhdry, S. Mahmood, M.S. Farid, "Arc GIS and 3D Visualization of Land Records," *National Academy Science Letters*, Volume 39, Issue 4, pp 277–281, Aug. 2016 [IF: 0.369]
28. M.S. Farid, M. Lucenteforte, M. Grangetto, "Panorama View With Spatiotemporal Occlusion Compensation for 3D Video Coding," *IEEE Transactions on Image Processing*, Volume 24, no. 1, pp. 205–219, Jan. 2015 [IF: 3.735]
29. M.S. Farid, A. Mahmood, "An Image Composition Algorithm for Handling Global Visual Effects," *Multimedia Tools and Applications*, Volume 71, Issue 3 (2014), pp. 1699–1716, Aug. 2014 [IF: 1.346]
30. M.S. Farid, A. Mahmood, "Image Morphing in Frequency Domain," *Journal of Mathematical Imaging and Vision*, Volume 42, Number 1, 50–63, Jan. 2012 [IF: 1.767]
31. T. Mahmood, M.S. Farid, "A Multi-agent Architecture for Task Scheduling In University Environment," *IAES International Journal of Artificial Intelligence (IJ-AI)*, volume 1, Number 4, pp. 193–200, Dec. 2012 [HEC - Y Category, CiteScore 0.5]

Conference Publications

32. U.B. Muslim, M.H. Khan, M.S. Farid, "Exploiting Spatiotemporal Features for Action Recognition," accepted in *Proc. IEEE International Bhurban Conference on Applied Sciences & Technology (IBCAST)*, Islamabad, Pakistan, pp. 1–7, 12-16 Jan. 2021
33. M.H. Khan, M.S. Farid, M. Zahoor, M. Grzegorzec, "Cross-view Gait Recognition using Non-linear View Transformations of Spatiotemporal Features," in *Proc. IEEE International Conference on Image Processing (ICIP)*, Athens, Greece, pp. 773–777, 7-10 Oct. 2018
34. M.H. Khan, M.S. Farid, M. Grzegorzec, "Using a Generic Model for Codebook-based Gait Recognition Algorithms," in *Proc. 6th IAPR/IEEE International Workshop on Biometrics and Forensics*, Sassari, Italy, pp. 1–7, 7-8 June 2018
35. M. Saleem, M.S. Farid, M.S. Saleem, "Automated Knee Replacement Detection using Radiological Symptoms," in *Proc. Conference on Microbiology and Molecular Genetics (MMG 2018)*, Lahore, Pakistan, pp. 300, 7-9 Feb. 2018
36. N. Khehrah, S. Bilal, M.S. Farid, "Lung Segmentation in CT Scans for Lung Nodule and Cancer Detection," in *Proc. Conference on Microbiology and Molecular Genetics (MMG 2018)*, Lahore, Pakistan, pp. 161, 7-9 Feb. 2018
37. M.H. Khan, M.S. Farid, M. Grzegorzec, "Person Identification using Spatiotemporal Motion Characteristics," in *Proc. 2017 IEEE International Conference on Image Processing (ICIP)*, Beijing, China, pp. 166–170, 17-20 Sept. 2017
38. M.S. Farid, M. Lucenteforte, M. Grangetto, "Perceptual Quality Assessment of 3D Synthesized Images," in *Proc. IEEE International Conference on Multimedia and Expo (ICME)*, Hong Kong, China, pp. 505–510, 10-14 July 2017
39. M.S. Farid, M. Lucenteforte, M.H. Khan, M. Grangetto, "Semi-automatic Segmentation of Scattered and Distributed Objects," in *Kurzynski M., Wozniak M., Burduk R. (eds) Proceedings of the 10th International Conference on Computer Recognition Systems (CORES) 2017*.

Advances in Intelligent Systems and Computing, vol 578. Chapter 12, pp. 110-119, 22-24 May 2017, Polanica Zdroj, Poland, Springer, Cham, ISBN=978-3-319-59162-9

40. M.H Khan, F. Li, M.S. Farid, M. Grzegorzec, "Gait Recognition using Motion Trajectory Analysis," in *Kurzynski M., Wozniak M., Burduk R. (eds) Proceedings of the 10th International Conference on Computer Recognition Systems (CORES) 2017. Advances in Intelligent Systems and Computing*, vol 578. Chapter 8, pp. 73-82, 22-24 May 2017, Polanica Zdroj, Poland, Springer, Cham, ISBN=978-3-319-59162-9
41. M.H. Khan, K. Shirahama, M.S. Farid, M. Grzegorzec, "Multiple Human Detection in Depth Images," in *Proc. Multimedia Signal Processing (MMSP), 2016 IEEE 18th International Workshop on*, Montreal, QC, Canada, pp. 1-6, 21-23 Sept. 2016
42. M.S. Farid, M. Lucenteforte, M. Grangetto, "Objective Quality Metric for 3D Virtual Views," in *Proc. Image Processing (ICIP), 2015 IEEE International Conference on*, Quebec City, QC, Canada, pp.3720-3724, 27-30 Sept. 2015
43. M.S. Farid, M. Lucenteforte, M. Grangetto, "Blind Depth Quality Assessment using Histogram Shape Analysis," in *Proc. 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video (3DTV-CON)*, Lisbon, Portugal, pp. 1-5, 8-10 July 2015
44. M.S. Farid, M. Lucenteforte, M. Grangetto, "Edge enhancement of depth based rendered images," in *Proc. Image Processing (ICIP), 2014 IEEE International Conference on*, Paris, France, pp. 5452-5456, 27-30 Oct. 2014
45. M.S. Farid, M. Lucenteforte, M. Grangetto, "A panoramic 3D video coding with directional depth aided inpainting," in *Proc. Image Processing (ICIP), 2014 IEEE International Conference on*, Paris, France, pp. 3233-3237, 27-30 Oct. 2014
46. M.Y. Qazi, M.S. Farid, "Content Based Image Retrieval using Localized Multi Texton Histogram," in *Proc. Frontiers of Information Technology (FIT), 2013 IEEE 11th International Conference on*, Islamabad, Pakistan, pp. 107-112, 16-18 Dec. 2013
47. M.S. Farid, M. Lucenteforte, M. Grangetto, "Depth image based rendering with inverse mapping," in *Proc. Multimedia Signal Processing (MMSP), 2013 IEEE 15th International Workshop on*, Pula, Italy, pp. 135-140, 30 Sept.-2 Oct. 2013
48. M.S. Farid, M. Lucenteforte, M. Grangetto, "Edges shape enforcement for visual enhancement of depth image based rendering," in *Proc. Multimedia Signal Processing (MMSP), 2013 IEEE 15th International Workshop on*, Pula, Italy, pp. 406-411, 30 Sept.-2 Oct. 2013
49. M.M. Mubasher, M.S. Farid, A. Khaliq, M.M. Yousaf, "A Parallel Algorithm for Change Detection," in *Proc. Multitopic Conference (INMIC), 2012 15th International*, Islamabad, Pakistan, pp. 201-208, 13-15 Dec. 2012
50. M.S. Farid, H. Khan, A. Mahmood, "Image Inpainting using Cubic Hermit Spline," in *Proc. SPIE 8285, International Conference on Graphic and Image Processing (ICGIP 2011)*, Cairo, Egypt, 82854R, 1-3 October 2011
51. M.S. Farid, H. Khan, A. Mahmood, "Image Inpainting based on Pyramids," in *Proc. Signal Processing (ICSP), 2010 IEEE 10th International Conference on*, Beijing, China, pp. 711-715, 24-28 Oct. 2010

52. M.S. Farid, H. Khan, “Image Inpainting using Dynamic Weighted Kernels,” in *Proc. Computer Science and Information Technology (ICCSIT), 2010 3rd IEEE International Conference on*, Chengdu, China, pp. 252–255, 9-11 July 2010

Patents

53. M. Grangetto, M. Lucenteforte, A. Basso, G. Ballocca, M.S. Farid, “Method and Device For Edge Shape Enforcement For Visual Enhancement of Depth Image Based Rendering of A Three-Dimensional Video Stream”, US Patent No. US10049502B2, Date of Patent: August 14, 2018
54. M.S. Farid, M. Grangetto, “Apparatus and Method For Image Segmentation”, EP Patent No. EP3018626B1, Date of Patent: October 17, 2018
55. M.S. Farid, M. Grangetto, “Apparato e metodo per segmentare immagini”, Italian Patent Office (UIBM) Patent No. 0001426859, Date of Patent: January 23, 2017 [†]

Research Grants

- [2019–2022] - “3DViCoQa: Advanced Techniques for 3D Video Coding and Quality Assessment”,
Funding agency: HEC National Research Program for Universities (NRPU)
Project No.: NRPU-7389
Grant: Rs. 3.1 Million
Status: In progress.
- [2020–2021] - “A Computer Vision Based System to Monitor Crop Health”,
Funding agency: National Grassroots ICT Research Initiative (NGIRI), IGNITE National Technology Fund
Project No.: NGIRI-2021-6555
Grant: Rs. 78K
Status: Completed.
- [2019–2020] - “Person Identification using Gait Biometric”
Funding agency: University of the Punjab, Lahore, Pakistan
Grant: Rs. 150K
Status: Successfully completed, results are published in a prestigious international conference.
- [2017–2018] - “Compression Distortion Estimation of Depth Maps”
Funding agency: University of the Punjab, Lahore, Pakistan
Grant: Rs. 150K
Status: Successfully completed, results are published in an impact factor journal.
- [2016–2017] - “Perceptual Quality Assessment of 3D Synthesized Images”
Funding agency: University of the Punjab, Lahore, Pakistan
Grant: Rs. 150K
Status: Successfully completed, results are published in a prestigious international conference.
- [2011–2012] - “An Image Composition Technique to Handle Global Effects of Local Content Manipulations”
Funding agency: University of the Punjab, Lahore, Pakistan
Grant: Rs. 125K
Status: Successfully completed, results are published in an impact factor journal.

[†]Publication item 54 is a foreign version of this patent.

Schools Attended

1. *Visione delle Macchine (VisMac 2014): Summer School on Computer Vision and Pattern Recognition for Homeland Security*, by the “Gruppo Italiano Ricercatori in Pattern Recognition” (GIRPR) affiliated to International Association for Pattern Recognition (IAPR), June 16-20, 2014, Marina di Ascea (Salerno), Italy
2. *Second Short Spring School in Surveillance S5*, May 7-9, 2013, University of Modena and Reggio Emilia, Italy
3. *Bertinoro International Spring School (BISS)*, March 3-9, 2013, University Residential Center, Bertinoro (Forli-Cesena), Italy

Conferences/ Workshops Attended

1. *IEEE International Workshop on Multimedia Signal Processing (MMSP)*, Pula, Sardinia, Italy, Sep 30 - Oct 2, 2013
2. *IEEE International Conference on Image Processing (ICIP)*, Paris, France, Oct 27 - Oct 30, 2014
3. *IEEE 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video (3DTV-CON)*, Lisbon, Portugal, July 8 - 10, 2015
4. *IEEE International Conference on Multimedia and Expo (ICME)*, Torino, Italy, June 29 - July 3, 2015
5. *4th In Service Faculty Training Program*, November 21-25, 2016, University of the Punjab, Lahore, Pakistan
6. *2nd International Conference on Machine Vision*, Islamabad, Pakistan, December 29-31, 2010
7. *Turnitin Anti-Plagiarism Software*, One Day Training Workshop, University of the Punjab, Lahore, Pakistan, 2009
8. *How to Approach and Manage Funded Research Projects?*, Office of Research Innovation & Commercialization (ORIC), University of the Punjab, June 18, 2019
9. *IEEE International Conference on Image Processing (ICIP)*, Abu Dhabi, UAE, (Virtual Mode), October 25-28, 2020
10. *14th IEEE International Conference On Open Source System and Technologies (ICOSST)*, Lahore, Pakistan, December 16-17, 2020
11. *18th IEEE International Bhurban Conference on Applied Sciences & Technology (IBCAST)*, Islamabad, Pakistan, January 12-16, 2021

Honors

- First position in BS (Computer Science), University of the Punjab, Lahore, Pakistan.
- Second position in M.Sc. (Computer Science), University of the Punjab, Lahore, Pakistan.
- Three merit scholarships in M.Sc. (Computer Science), University of the Punjab, Lahore, Pakistan.

Awards/Recognitions

- [2019] Research Incentive Award of Rs. 30K from University of the Punjab, Lahore, Pakistan.
- [2018] HEC Approved PhD Supervisor.
- [2018] Research Incentive Award of Rs. 124K from University of the Punjab, Lahore, Pakistan.
- [2016] International Travel Grant (Rs. 201,898) awarded from Punjab Higher Education Commission (PHEC) to present a research paper in the 10th International Conference on Computer Recognition Systems (CORES) 2017 in Polanica Zdroj, Poland.
- [2016] Research Incentive Award of Rs. 53K from University of the Punjab, Lahore, Pakistan.
- [2015] Research Incentive Award of Rs. 21K from University of the Punjab, Lahore, Pakistan.
- [2014] Research Incentive Award of Rs. 20K from University of the Punjab, Lahore, Pakistan.
- [2012] Research Incentive Award of Rs. 50K from University of the Punjab, Lahore, Pakistan.
- [2012] Scholarship for PhD study at Università degli Studi di Torino, Italy (Jan. 2013 - Dec. 2015) from University of the Punjab, Lahore, Pakistan.

Languages/ Tests

- English IELTS: 6.5 [2011]
- Urdu (National Language)
- Punjabi (Native Language)
- NTS GAT (General): 73, Percentile: 99 [2007]
- NTS GAT (Computer Science): 68, Percentile: 85 [2011]

Employment, University of the Punjab

Assistant Professor

Nov. 2014 to present

Courses: Digital Image Processing, Analysis of Algorithms, Theory of Automata

Lecturer

Nov. 2008 - Nov. 2014

Courses: Digital Image Processing, Analysis of Algorithms, Theory of Automata, Multimedia System Development

Lecturer (Contract)

Sep. 2008 - Nov. 2008

Courses: Digital Image Processing, Analysis of Algorithms, Theory of Automata, Multimedia System Development

Employment, Masood Textile Mills

Software Engineer

June 2006 - March 2007

Worked as Software Engineer in MRP-II, a mega project at Masood Textile Mills, Faisalabad. I worked on Order Capturing Component (OCC), Rough Cut Capacity Planning (RCCP) modules.

Research Lab Established

Image & Vision Computing Lab

I established ‘Image & Vision Computing Lab’, a graduate research laboratory at PUCIT (Quaid-e-Azam Campus) in 2017. The aim of IVC Lab is to train resources and conduct research on various image processing and computer vision problems and their applications. The lab has produced more than 14 MPhil graduates till to date and more than 7 graduate students are doing research on problems in biometrics, 3D video coding, image quality assessment, malaria parasite detection, and lung nodule detection *etc.*

Service to the Community

- Editorial Board:
 - Area Editor, Mathematical Problems in Engineering
 - Academic Editor, IAES International Journal of Artificial Intelligence
- Technical reviewer of several journals including:
 - IEEE Transactions on Multimedia
 - IEEE Transactions on Circuits and Systems for Video Technology
 - IEEE Signal Processing Letters
 - Information Fusion
 - Signal Processing: Image Communication
 - Journal of Visual Communication and Image Representation
 - Multimedia Systems
 - Signal, Image and Video Processing
 - Sensors
 - Journal of Imaging
- Served as Area Chair (AC) in:
 - ACM Multimedia (ACM SIGMM) 2021
- Served as Technical Program Committee (PC) member in:
 - IEEE International Conference on Frontiers of Information Technology (FIT) 2017, 2018, 2019
 - IEEE International Conference on Open Source Systems and Technologies (ICOSST) 2018, 2019, 2020
 - IEEE International Conference on Advancements in Computational Sciences (ICASE) 2019, 2020
- Served as Judge in Central Zonal Science Exhibition Competition, Fazaia Intermediate College, Lahore, September 2, 2019
- Served as External Examiner in MPhil Theses: 03
- Supervised BS Projects: 41

Memberships of Professional Societies and Boards

- Member Departmental Doctoral Program Committee (DDPC), Centre of Geographical Information System (GIS Centre), University of the Punjab, Lahore [Mar. 2019 – to-date]

- Graduate Student Member, IEEE [2013–2015]
- Member, IEEE [2015 – to-date]

Supervised Theses

- MPhil (Computer Science)

1. Noor Kherah, “Lung Cancer Diagnosis using CT Scan Images”, May 11, 2018
2. Rabia Zafar, “Fusion LIB: A Multi-focus Image Fusion Library”, May 18, 2018
3. Tehreem Fatima, “Synthesis Error Estimation in DIBR Images”, July 19, 2018
4. Mahrukh Saleem, “X-ray Image Analysis for Automated Knee Replacement Detection”, November 19, 2018
5. Maryiam Zahoor, “Multiview Gait Recognition using Spatiotemporal Motion Characteristics”, November 19, 2018
[Co-supervisor: Dr. Muhammad Hassan Khan]
6. Tazeem Haider, “A Vision-based Approach for Nitrogen Estimation in Crops”, August 23, 2019
7. Areeba Ilyas, “Multi-focus Image Fusion Using Superpixels”, May 21, 2020
8. Usairam Bin Muslim, “Motion Descriptor Based Action Recognition”, May 21, 2020
[Co-supervisor: Dr. Muhammad Hassan Khan]
9. Hafiz Muhammad Usama Hassan Alvi, “Quality Assessment of 3D Videos”, October 2, 2020
10. Asma Maqsood, “Malaria Parasite Detection From Microscopic Blood Images”, October 2, 2020
11. Anam Farooq, “The effect of Hudhara drain effluents on adjacent biome using GIS”, January 26, 2021
[Co-supervisor: Dr. Muhammad Usman, Assistant Professor at Centre for Geographical Information Systems (CGIS), University of the Punjab, Lahore]
12. Rafia Mansoor, “3D Image Quality Assessment”, February 8, 2021
13. Badi uz zaman Babar, “Efficient 3D Video Coding”, April 27, 2021
14. Bilal Mehdi, “Estimation of Snowmelt Runoff of Tarbela Catchment Using SRM for Kharif Season”, April 27, 2021

Service to the College

- **Present Services**

- **Chair, Campus Management Committee (CMC)**

[Sep. 2020 – to date]

The committee is responsible to verify and justify the requisitions regarding the repair and maintenance of college infrastructure and installations.

- **Member, Departmental Doctoral Programme Committee (DDPC)**

[Aug. 2021 – to date]

The committee deals with the matters relating to MS/M.Phil/Ph.D or equivalent programs of the department.

- **Member, College Purchase Committee**
[Oct. 2020 – to date]
The committee is responsible to review and approve the requisitions related to college infrastructure and installations purchases.

- **Past Services**

- **Coordinator of the Centre of Geographical Information System (GIS Centre)**
[Sep. 2018 – Nov. 2018]
Served as the Coordinator of the Centre of Geographical Information System (GIS Centre), Punjab University College of Information Technology, University of the Punjab, Lahore
- **Degree Coordinator of BS (Information Technology) Program**
[Nov. 2018 – Feb. 2019]
Served as the Degree Coordinator of BS Information Technology program at PUCIT (New Campus)
- **Chairman Admission Committee**
[2017, 2018]
Served as the Chairman Admission Committee for admissions in BS and MSc degree programs of the college in year 2017 and 2018
- **Chairman Computer Society (CS)**
[Mar. 2019 – Mar. 2021]
The Society prepares PUCIT students for the upcoming challenges of the computer world through organizing seminars, workshops, competitions and study tours. The society prepares students for different competition and also organizes such competitions at the college.
- **Chairman Pre Admission Entrance Test Registration Committee**
[2017, 2018, 2019]
Served as the Chairman Pre Admission Entrance Test Registration Committee for BS and MSc admissions in years 2017, 2018, and 2019
- **Chairman Pre Admission Entrance Test Registration Committee**
[2017, 2018, 2019]
Served as the Chairman Pre Admission Entrance Test Registration Committee for MPhil and PhD admissions in years 2017, 2018, and 2019
- **Member of College Council**
[Sep. 2018 – Feb. 2019]
The council looks after all the academic matters of the college.
- **Secretary/member PUCIT Graduate Financial Support Review Committee (GFSRC)**
[June 2018 – Aug. 2019]
The committee is responsible for allocation of financial aid to graduate students.
- **Member of the PUCIT Research Advisory Committee (PRAC)**
[Jan. 2016 – May 2018]
The committee is responsible to provide recommendations for the promotion of research activities in the college, including development of enabling infrastructure and culture.
- **Secretary/member of the PUCIT Research Advisory Committee (PRAC)**
[May 2018 – Mar. 2021]
The committee is responsible to provide recommendations for the promotion of research activities in the college, including development of enabling infrastructure and culture.
- **Secretary/member of the PUCIT Migration Committee**
The committee is responsible for all BS/MSc migration cases.
[Apr. 2010 – Mar. 2021]

- **Member of the college Ph.D. Comprehensive Examination Committee**
[Dec. 2020 – Mar. 2021]
The committee is responsible for conducting the Ph.D. (Computer Science) Comprehensive Examination, in all aspects.
- **Member of The Disciplinary Committee (DC)**
[Sep. 2016 – Dec. 2018]
The committee deals with cases of students involved in disciplinary matters.
- **Member of Event Management Society (EMS)**
[Sep. 2016 – Feb. 2019]
The Society plans and organizes different co-curricular and extra-curricular activities for the students of college.

Research IDs & Profiles

-  <https://scholar.google.com.pk/citations?user=IzMRwQkAAAAJ&hl=en>
-  https://www.researchgate.net/profile/Muhammad_Shahid_Farid
-  <https://orcid.org/0000-0002-8384-2830>
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