

Dr. Shaheryar Najam

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CAREER OBJECTIVE

Ph.D. qualified professional in Computing and Artificial Intelligence with a passion for leveraging advanced analytics and cutting-edge technologies to uncover actionable insights and drive data-informed decision-making. Seeking a challenging role as a Research Scientist to apply my expertise in, data analysis, predictive modeling, computer vision, and machine learning to optimize processes and deliver valuable solutions.

EDUCATION

Education	GPA / CGPA	Years Attended	University
Ph.D. Electrical Engineering (Computing & Artificial Intelligence)	4.0/4.0	2016-2021	Riphah International University, Pakistan
MS Electrical Engineering	4.0/4.0	2013-2015	HITEC University, Pakistan
BS Electronics Engineering	3.04/4.00	2008-2012	NUST, School of Electrical Engineering and Computer Sciences (SECS)

WORKEXPERIENCE

Bahria University	January 2025 - Present
Senior Assistant Professor	
Riphah International University, Electrical & Computer Engineering Department	2021 - 2025
Assistant Professor	
Major Assignments	
- In-charge, Postgraduate Programs - In-charge Computer Engineering - Head, OBE Implementation Team - Convener, FYP Committee	
Riphah International University, Electrical & Computer Engineering Department	2015 - 2021
ACA LAB, HITEC University/Research Associate/Taxila, Pakistan	2013 - 2015
HITEC University/Engineer/Taxila, Pakistan	2013 - 2015
Entaly.inc /Engineering Solution Analyst/NUST, Islamabad	2012 - 2013
Rhode Schwarz /Intern / Blue Area, Islamabad	August 2011

RECENT PROJECTS & FUNDINGS

Research Funding

Sr. no	Title	Funding Agency
1	Artificial Intelligence bases Non-invasive Blood Glucose Estimation using PPG Signals	Effat University, Saudi Arabia
2	Artificial Intelligence based Non-invasive glucose estimation of blood glucose level	- ORIC, Riphah International University - Pakistan Engineering Council - Ignite, Pakistan
3	Artificial Intelligence Based Non-invasive Chronic Disease Diagnostic Kit	ORIC, Riphah International University

4	Run time DVFS framework for power optimization of heterogeneous computing architecture	ORIC, Riphah International University
5	Performance And Power Aware GPUs For High End Computing	ORIC Riphah International University

PUBLICATIONS

Book:

1. Jameel Ahmed, Yaqoob Syal, **Shaheryar Najam** "Fuzzy Logic Based Power Efficient Real Time Multi-core System" Springer 2017

Journals

1. Kamal, Aleena, Yanfeng Wu, Hanan Aljuaid, **Shaheryar Najam**, Khaled Alnowaiser, Ahmad Jalal, and Hui Liu. "SleepCode: A Novel Attention-Driven Multimodal Framework for Sleep Staging and Obstructive Apnea Screening." *IEEE Transactions on Consumer Electronics* (2026).
2. Aleena Kamal, **Shaheryar Najam**, "3D-MLKD: A Hybrid Heuristic Framework for Synergistic Pose Estimation and Motion Analysis in Physically Disabled Individuals", *Engineering Science and Technology, an International Journal (JESTECH)*, (2026) Accepted.
3. Zarnab Kausar, **Shaheryar Najam** "Deep Hand Segmentation and Multi-Modal Gesture Recognition for Hu-man-Robot Interaction via 3D Volumetric Encoding", *CMC-Computers, Materials & Continua*, (2026) Accepted.
4. Aleena Kamal, Yanfeng Wu, **Shaheryar Najam** "Towards Intelligent Rehabilitation: Multimodal Human Pose Modeling with Parametric Meshes and Graph-Based Temporal Reasoning", *Digital Health* (2026)
5. Kausar, Zarnab, **Shaheryar Najam**, et al. "Two-hand static and dynamic Arabic sign language recognition using keypoints and shape descriptors with attention-driven feature fusion." *PeerJ Computer Science* 11 (2025): e3275.
6. Ashraf, Muhammad Abrar, Yanfeng Wu, **Shaheryar Najam**, et al. "Deep multimodal biomechanical analysis for lower back pain rehabilitation to improve patients stability." *Frontiers in Bioengineering and Biotechnology* 13 (2025): 1631910.
7. Aman Aman Ullah, **Shaheryar Najam** "Transformer-Driven Multimodal for Human-Object Detection and Recognition for Intelligent Robotic Surveillance" *Computer Material and Continua (CMC)*, 2025
8. Kamal, Aleena, **Shaheryar Najam**,. "Holistic Pose Estimation and Dynamic Motion Analysis for Telerehabilitation of Physically Disabled Individuals." *IEEE Access* (2025).
9. Ghous, Ghulam, **Shaheryar Najam**, et al.. "Attention-Driven Emotion Recognition in EEG: A Transformer-Based Approach with Cross-Dataset Fine-Tuning." *IEEE Access* (2025).
10. Abrar Ashraf, **Shaheryar Najam** et al. A Novel Telerehabilitation System for Physical Exercise Monitoring in Elderly Healthcare, *IEEE Access*, 2024,
11. Tanzeela Shaheen, Hamrah Batool, Wajid Ali, **Shaheryar Najam**, "A Novel generalization of sequential decision-theoretic rough set model and its application" Heliyon, 2024.
12. Ahsan, Tehseen, Sohail Khalid, **Shaheryar Najam**, Muhammad Attique Khan, Ye Jin Kim, and Byoungchol Chang. "HRNetO: Human Action Recognition Using Unified Deep Features Optimization Framework.", *Computer Material and Continua (CMC)*. 2023,
13. **Shaheryar Najam** and Jameel Ahmed. Run-time neuro-fuzzy type-2 controller for power optimisation of GP-GPU architecture. *IET Circuits, Devices & Systems* (2020) 10.1049/iet-cds.2020.0233. 2020,
14. **Shaheryar Najam**, Jameel Ahmed, Saad Masood, Chuadhry Mujeeb Ahmed, Run-time Resource Management Controller For Power Efficiency of GP-GPU Architecture. *IEEE Access*, 2019, pages 25493 – 25505, 10.1109/ACCESS.2019.2901010. **IF: 3.557**
15. **Najam, Shaheryar**, Muhammad Yasir Qadri, Zohaib Najam, Jameel Ahmed, and Nadia N. Qadri. "A fuzzy logic based power-efficient run-time reconfigurable multicore system." *Chinese Journal of Electronics* 27, no. 3 (2018): 549-555. **IF: 1.014**

Recent Conference Publication (Selective):

1. Fazal, A., **Shaheryar Najam**, and A. Jalal. "Multimodal Fusion for Physical Telerehabilitation using YOLOv8 and Machine Learning Classifier." 2025 Horizons of Information Technology and Engineering (HITE) (2025): 1–6.
2. Ali, S., **Shaheryar Najam**, and A. Jalal. "A Novel Human Action Recognition over Body Part Labeling for Telerehabilitation Exercises." 2025 Horizons of Information Technology and Engineering (HITE) (2025): 1–6.
3. Kausar, Z., **Shaheryar Najam**, and A. Jalal. "Improved Sign Language Recognition via Dynamic Features and Spatiotemporal Transformer." 2025 Horizons of Information Technology and Engineering (HITE) (2025): 1–6.
4. Najam, **Shaheryar**, and A. Jalal. "Hand Gesture Recognition via GNN Attention-Keypoint Features Fusion and Geometric Encoding." 2025 Horizons of Information Technology and Engineering (HITE) (2025): 1–6.
5. Fatima, E., M. H. D. Khan, and **Shaheryar Najam**. "Novel Directional Profiling and Transformer-Based Activity Recognition via Hybrid Feature Fusion." 2025 Horizons of Information Technology and Engineering (HITE) (2025).
6. Shahid, H., **Shaheryar Najam**, and A. Jalal. "HARR-NET: A Novel Silhouette-Aware Fusion Method Using HSE-Net for Reliable UAV Human Activity Recognition." 2025 Horizons of Information Technology and Engineering (HITE) (2025).
7. Iftikhar, M., **Shaheryar Najam**, and A. Jalal. "Emotion Aware Human Robot Interaction Using EEG Signals for Personalized Communication." 6th International Conference on Innovative Computing (2025).
8. Kamal, A., **Shaheryar Najam**, and A. Jalal. "Multimodal 2.5D Feature Fusion and LSTM Classifier for Telerehabilitation." 6th International Conference on Innovative Computing (2025).
9. Kamal, A., **Shaheryar Najam**, and A. Jalal. "A Novel Gaussian Body Segmentation and 3D Point Cloud for Elderly Activity Recognition." 6th International Conference on Innovative Computing (2025).
10. Kausar, Z., **Shaheryar Najam**, and A. Jalal. "LKECA-III: Novel Localized Keypoints Extraction for Sign Language Recognition using Hidden Markov Model." 6th International Conference on Innovative Computing (2025).
11. Ghous, G., **Shaheryar Najam**, and A. Jalal. "Smart Hand Gesture Recognition of Sign Language using YOLO and Hidden Markov Model." 6th International Conference on Innovative Computing (2025).
12. Shahid, H., **Shaheryar Najam**, and A. Jalal. "Drone Surveillance for Action Recognition via Mask R-CNN and Transformer Learning." 27th International Conference on Multi Topic (INMIC 2025) (2025).
13. Bashir, I., **Shaheryar Najam**, and A. Jalal. "3D Body Posture with Unique GMM Segmentation and Transformer Networks for Activity Monitoring." 27th International Conference on Multi Topic (INMIC 2025) (2025).
14. Kamal, A., **Shaheryar Najam**, and A. Jalal. "SKEP-Net: Depth-based Human Pose Monitoring and Exercise Recognition using GMM-Segmentation." 4th International Conference on Engineering and Computing (ICECT) (2025).
15. Ullah, A. A., **Shaheryar Najam**, and A. Jalal. "A Novel Parkinson Patients Physical Action System via PoseNet and Transformer." 4th International Conference on Communication, Computing & Digital Systems (2025).

ACHIEVEMENTS

1. Completed Ph. D in Electrical Engineering with 4.0/4.0 CGPA
2. Completed Master in Electrical Engineering with 4.0/4.0 CGPA
3. Multiple letters of appreciation by Honorable Chancellor for successfully completing 100 % admission in B.Sc. Electrical Engineering Program for year 2018 and 2019
4. Multiple letters of appreciation by Honorable Chancellor for successful attainment of OBE based Level II accreditation for B.Sc. Electrical Engineering & Biomedical Engineering Programs.
5. Achieved fully funded Master scholarship from ICT R&D ministry of IT, Pakistan