

Sarmad Shafique

Lecturer Computer Science.

Contact Me.

Department of Computer Science

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Education:

MS(CS) (2018)

Bahria University, Islamabad, Pakistan

Area of research: Medical Image Analysis, Digital Image Processing, Deep Learning, Computer Vision

BS(CS) (2014)

Mirpur University of Science and Technology (MUST), Mirpur, AJK

Area of research: Autonomous Vehicles, Computer Vision, Vehicle to Vehicle Communication.

Experience:

Research Assistant (December 2018 to August 2023)

Control Automotive and Robotics Lab, MUST, Mirpur, AJK

National Centre of Robotics and Automation (NCRA), Pakistan

Course Instructor (NAV TTC) (2020 to 2021)

Artificial Intelligence (Machine Learning and Deep Learning)

Department of Computer Science, MUST, Mirpur AJK.

Publications:

Journal Publications:

1. **Sarmad Shafique** and Samabia Tehsin, "Acute Lymphoblastic Leukemia Detection and Classification of its Subtypes using Pre-trained Deep Convolutional Neural Networks," Technology in Cancer Research & Treatment, vol. 17, 7 pages, 2018. doi:10.1177/1533033818802789, **Impact Factor 3.399**
2. **Sarmad Shafique** and Samabia Tehsin, "Computer-Aided Diagnosis of Acute Lymphoblastic Leukaemia," Computational and Mathematical Methods in Medicine, vol.

- 2018, Article ID 6125289, 13 pages, 2018. doi:10.1155/2018/6125289, **Impact Factor 2.809**
3. C H Abbas Gondal, Muhammad Irfan, **Sarmad Shafique**, Muhammad Salman Bashir, Mansoor Ahmed, Osama M. Alshehri, Hassan H Almasoudi, Samar M. Alqhtani, Mohammed M. Jalal, Malik A. Altayar and Khalaf F Alsharif "Automated leukemia screening and sub-types classification using deep learning," Computer Systems Science and Engineering, vol. 46, no.3, pp. 3541–3558, 2023. **Impact Factor 4.397**
 4. Abid Samia, Bashir Hayat, **Sarmad Shafique**, Zain Ali, Bilal Ahmed, Faisal Riaz, Tae-Eung Sung, and Ki-Il Kim. "A Robust QR and Computer Vision-Based Sensorless Steering Angle Control, Localization, and Motion Planning of Self-Driving Vehicles." IEEE Access 9 (2021): 151766-151774. **Impact Factor 3.367**
 5. Muhammad Atif Butt, Asad Masood Khattak, **Sarmad Shafique**, Bashir Hayat, Saima Abid, Ki-Il Kim, Muhammad Waqas Ayub, Ahthasham Sajid, Awais Adnan, "Convolutional Neural Network Based Vehicle Classification in Adverse Illuminous Conditions for Intelligent Transportation Systems," Complexity, 2021, **Impact Factor 2.833**
 6. Muhammad Atif Butt, Faisal Riaz, Shehzad Khalid, Samia Abid, Muhammad Asif Habib, **Sarmad Shafique**, Kijun Han, "Micro-electromechanical system based optimized steering angle estimation mechanism for customized self-driving vehicles," Measurement and Control, 2021, **Impact Factor 1.704**

International Conference Publications:

1. **Sarmad Shafique**, Samabia Tehsin, Syed Anas and Farrukh Masud, "Computer-assisted Acute Lymphoblastic Leukemia detection and diagnosis" 2019 2nd International Conference on Communication, Computing and Digital systems (C-CODE), pp. 184-189. IEEE, 2019
2. **Sarmad Shafique**, Samia Abid, Faisal Riaz, and Zainab Ejaz. "Computer Vision based Autonomous Navigation in Controlled Environment." In 2021 International Conference on Robotics and Automation in Industry (ICRAI), pp. 1-6. IEEE, 2021
3. Muneeb Zafar, **Sarmad Shafique**, Faisal Riaz, Samia Abid, Umar Raza, and William Holderbaum. "A Cost-effective Smart Labor Assistance Trolley for Industrial Applications." In 2023 International Conference on Robotics and Automation in Industry (ICRAI), pp. 1-6. IEEE, 2023

Research Award:

Best Session Paper Award for the Paper "Computer Vision based Autonomous Navigation in Controlled Environment" presented at ICRAI 2021

Area of Interest:

Artificial Intelligence

Machine Learning

Deep Learning

Bio-medical Image Processing

Computer Vision

Autonomous Vehicles

Programming