

Muhammad Ayaz Shirazi

Assistant Professor
Pakistan Navy Engineering College

Email: ayaz.shirazi@pnec.nust.edu.pk
Contact: 0



About

Dr. Muhammad Ayaz Shirazi is working as Assistant Professor in the Pakistan Navy Engineering College. Dr. Muhammad Ayaz Shirazi has a PhD in Electronics Engineering. Dr. Muhammad Ayaz Shirazi has published 20 research articles & conference papers having a citation count of 207, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Electronics Engineering 2012 - 2018
Kyungpook National University , South Korea

Experience

Assistant Professor 2024- Present
Pakistan Navy Engineering College

Assistant Professor 2022 - 2022
Pakistan Navy Engineering College

Team Lead (Senior Researcher) 2020 - 2022
NED University , Karachi Pakistan

Postdoctoral fellow 2019 - 2020
Kyungpook National University , Daegu South Korea

Postdoctoral fellow 2018 - 2019
KAIST , Daejeon South Korea

Researcher 2012 - 2018
Kyungpook National University , Daegu South Korea

Research Articles

Attention-based deep convolutional neural network for classification of generalized and focal epileptic seizures 2024
Taimur Shahzad Gill Syed Sajjad Haider Zaidi Muhammad Ayaz Shirazi
Epilepsy and Behavior, Volume:155, Article Number 109732
Impact Factor: 2.300 | **Quartile:** 2 | **Citations:** 2
DOI: <https://doi.org/10.1016/j.yebeh.2024.109732>

Engagement detection and enhancement for STEM education through computer vision, augmented reality, and haptics 2023
Hasnain Ali Poonja Muhammad Ayaz Shirazi Muhammad Jawad Khan Kashif Javed
Image and Vision Computing, Volume 136, Article Number 104720
Impact Factor: 4.7 | **Quartile:** 1 | **Citations:** 18
DOI: <https://doi.org/10.1016/j.imavis.2023.104720>

Small Traffic Sign Detection in Big Images: Searching Needle in a Hay 2022
Yawar Rehman Hafsa Amanullah Muhammad Ayaz Shirazi Min Young Kim
IEEE Access, Volume 10, Pages 18667-18680
Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 15
DOI: [10.1109/ACCESS.2022.3150882](https://doi.org/10.1109/ACCESS.2022.3150882)

Supervised learning based peripheral vision system for immersive visual experiences for extended display 2021
Muhammad Ayaz Shirazi Riaz Uddin Min Young Kim
Applied Sciences, Volume 11, Issue 11, Article Number 4726

Impact Factor: 2.838 Quartile: 2 Citations: 1 DOI: https://doi.org/10.3390/app11114726	
Renewable energy perspectives of pakistan and turkey: Current analysis and policy recommendations <i>Riaz Uddin Abdurrahman Javid Shaikh Hashim Raza Khan Muhammad Ayaz Shirazi Athar Rashid Saad Ahmed Qazi</i> <i>Sustainability</i> , Volume 13, Issue 6, Article Number 3349 Impact Factor: 3.889 Quartile: 2 Citations: 25 DOI: https://doi.org/10.3390/su13063349	2021
Energy Storage for Energy Security and Reliability through Renewable Energy Technologies: A New Paradigm for Energy Policies in Turkey and Pakistan <i>Umar Shahbaz Khan Riaz Uddin Hashim Raza Khan Asad Arfeen Muhammad Ayaz Shirazi Athar Rashid</i> <i>Sustainability</i> , Volume 13(5), Article Number 2823 Impact Factor: 3.889 Quartile: 2 Citations: 12 DOI: https://doi.org/10.3390/su13052823	2021
Single shot laser speckle based 3D acquisition system for medical applications <i>Danish Khan Muhammad Ayaz Shirazi Min Young Kim</i> <i>Optics and Lasers in Engineering</i> , Volume 105, Pages 43-53 Impact Factor: 4.059 Quartile: 1 Citations: 63 DOI: https://doi.org/10.1016/j.optlaseng.2018.01.001	2018
Three-dimensional registration for handheld profiling systems based on multiple shot structured light <i>Muhammad Ayaz Shirazi Danish Khan Min Young Kim</i> <i>Sensors</i> , Volume 18, Issue 4, Article Number 1146 Impact Factor: 3.031 Quartile: 1 Citations: 7 DOI: https://doi.org/10.3390/s18041146	2018
Survey on zoom-lens calibration methods and techniques <i>Muhammad Ayaz Shirazi Min Young Kim Jaechan Park</i> <i>Machine Vision and Applications</i> , Volume 28, Issue 8, Pages 803-818 Impact Factor: 1.306 Quartile: 2 Citations: 21 DOI: https://doi.org/10.1007/s00138-017-0863-1	2017
Multiview registration-based handheld 3D profiling system using visual navigation and structured light <i>Muhammad Ayaz Shirazi Min Young Kim</i> <i>International Journal of Optomechatronics</i> , Volume 11, Issue 1, Pages 1-14 Impact Factor: 0.882 Quartile: 4 Citations: 8 DOI: https://doi.org/10.1080/15599612.2017.1300968	2017
Adaptive 3D sensing system based on variable magnification using stereo vision and structured light <i>Min Young Kim Muhammad Ayaz Shirazi Jaechan Park YoungJun Roh</i> <i>Optics and Lasers in Engineering</i> , Volume 55, Pages 113-127 Impact Factor: 2.237 Quartile: 1 Citations: 35 DOI: 10.1016/j.optlaseng.2013.10.021	2014

- Early Detection of Mesothelioma Using Machine Learning Algorithms** 2023
Taimur Shahzad Gill Muhammad Ayaz Shirazi Syed Sajjad Haider Zaidi
IEEC - International Electrical Engineering Conference 2023, res.country(177,)
Citations: N/A
DOI: <https://doi.org/10.3390/engproc2023046006>
- Motor Parametric Calculations for Robot Locomotion** 2022
Abdullah Haider Ali Syed Murtaza Hassan Kazmi Hasnain Ali Poonja Humayun Khan Muhammad Ayaz Shirazi Riaz Uddin
The 7th International Electrical Engineering Conference) 2022, res.country(282,)
Citations: N/A
DOI: <https://doi.org/10.3390/engproc2022020008>
- Walking Algorithm Using Gait Analysis for Humanoid Robot** 2022
Hasnain Ali Poonja Muhammad Soleman Ali Shah Riaz Uddin Syed Murtaza Hassan Kazmi Humayun Khan Abdullah Haider Ali Muhammad Ayaz Shirazi
The 7th International Electrical Engineering Conference 2022, res.country(282,)
Citations: N/A
DOI: 10.3390/engproc2022020035
- Haptic-enabled Virtual Laboratory for Hands-on E-Learning: A Technology for and Beyond the Pandemic Era** 2021
Muhammad Affan Humayun Khan Subhan Ahmed Riaz Uddin Muhammad Ayaz Shirazi
2021 International Conference on Robotics and Automation in Industry (ICRAI), res.country(282,)
Citations: N/A
DOI: 10.1109/ICRAI54018.2021.9651428
- Evaluation of ECG based Recognition of Cardiac Abnormalities using Machine Learning and Deep Learning** 2021
Hasnain Ali Poonja Muhammad Soleman Ali Shah Muhammad Ayaz Shirazi Riaz Uddin
2021 International Conference on Robotics and Automation in Industry (ICRAI), res.country(282,)
Citations: N/A
DOI: 10.1109/ICRAI54018.2021.9651457
- Augmentation of Visual Experiences using Deep Learning for Peripheral Vision based Extended Display Application** 2019
Muhammad Ayaz Shirazi Hochul Cho Woontack Woo
2019 IEEE International Conference on Consumer Electronics (ICCE), res.country(233,)
Citations: N/A
DOI: 10.1109/ICCE.2019.8662089
- 3D Handheld Scanning based on Multiview 3D registration using Kinect Sensing Device** 2017
Muhammad Ayaz Shirazi Danish Khan Min Young Kim
2017 IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems (MFI), res.country(121,)
Citations: N/A
DOI: 10.1109/MFI.2017.8170450
- A multi-view stereo based 3D hand-held scanning system using visual inertial navigation and structured light** 2015
Muhammad Ayaz Shirazi Danish Khan Bang Joon-Young Soo-In Park YoungJun Roh Min Young Kim
International Symposium of Optomechatronics Technology (ISOT) - 2015, res.country(43,)
Citations: N/A
DOI: <http://dx.doi.org/10.1051/mateconf/20153206004>
- 3D registration using inertial navigation system and Kinect for image-guided surgery** 2015
Bang JoonYoung Muhammad Ayaz Shirazi Danish Khan Soo-In Park Hyunki Lee Min Young Kim
2015 15th International Conference on Control, Automation and Systems (ICCAS), res.country(121,)
Citations: N/A
DOI: 10.1109/ICCAS.2015.7364593

Editorial Activities

Frontiers of Information Technology & Electronic Engineering	2023
Reviewed Papers for Journals	
Impact Factor: 2.545	
	2022
Edited Journal Issue / Proceeding / Book	
Impact Factor: N/A	