

Omar Arif

Associate Professor

School of Electrical Engineering and Computer Science

Email: omar.arif@seecs.edu.pk

Contact: 0515788222

LinkedIn: <https://www.linkedin.com/in/omar-arif-gatech/>



About

Dr. Omar Arif is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Omar Arif has a PhD in Machine Learning, Computer Vision. Dr. Omar Arif has published 20 research articles & conference papers having a citation count of 379, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Machine Learning, Computer Vision	2007 - 2010
Georgia Institute of Technology , United States	
MS in Electrical An Computer Engg	2006 - 2006
Georgia Institute of Technology , Pakistan	
BE in Software Engineering	1999 - 2003
NUST, Islamabad , Pakistan	

Experience

Associate Professor	2022- Present
School of Electrical Engineering and Computer Science	
Associate Professor	2020 - 2022
School of Electrical Engineering and Computer Science	
Assistant Professor	2014 - 2020
School of Electrical Engineering and Computer Science	
Assistant Professor	2014 - 2014
School of Electrical Engineering and Computer Science	
Research Fellow	2012 - 2014
KAUST , KAUST, KSA	
Research Scientist	2010 - 2012
Georgia Tech Research Institute , Atlanta USA	

Research Articles

Disentangled representation learning for multilabel generalized zero-shot learning	2025
Muqaddas Gull Omar Arif Rafia Mumtaz Mubashir Ahmad	
International Journal of General Systems , Pages 1-21	
Impact Factor: 2.400 Quartile: 2	
DOI: https://doi.org/10.1080/03081079.2025.2504682	
A light-weight deep learning framework for Low Light Image Enhancement	2025
Laraib Zainab Hammad Afzal Khawir Mahmood Omar Arif	
Neurocomputing , Volume 621, Article Number 129236	
Impact Factor: 5.500 Quartile: 1 Citations: 3	
DOI: https://doi.org/10.1016/j.neucom.2024.129236	
Generating visual representations for zero-shot learning via adversarial learning and variational autoencoders	2023
Muqaddas Gull Omar Arif	
The International Journal of General Systems , Volume:52, Issue: 05, Pages 636-651	
Impact Factor: 2.435 Quartile: 2 Citations: 5	

DOI: https://doi.org/10.1080/03081079.2023.2199991	
A Multi-Step Approach for Optically Active and Inactive Water Quality Parameter Estimation Using Deep Learning and Remote Sensing	2022
Mehreen Ahmed Rafia Mumtaz Zahid Anwar Arsalan Shaukat Omar Arif Faisal Shafait Water , Volume 14, Issue 13, Article Number 2112	
Impact Factor: 3.530 Quartile: 2 Citations: 41	
DOI: https://doi.org/10.3390/w14132112	
Generalized Zero-Shot Learning using Identifiable Variational Autoencoders	2022
Muqaddas Gull Omar Arif Expert Systems with Applications , Volume 191, Article Number 116268	
Impact Factor: 6.954 Quartile: 1 Citations: 10	
DOI: 10.1016/J.ESWA.2021.116268	
Crowdfix: An Eyetracking Dataset of Real Life Crowd Videos	2019
Memoona Tahira Sobas Mehboob Anis-ur-Rahman Memoona Tahira Sobas Mehboob Omar Arif IEEE Access , Volume 7, Pages 179002-179009	
Impact Factor: 3.745 Quartile: 1 Citations: 1	
DOI: 10.1109/ACCESS.2019.2956840	
Accelerated Dynamic MRI Using Kernel-Based Low Rank Constraint	2019
Omar Arif Hammad Afzal Haider Abbas Muhammad Faisal Amjad Jiafu Wan Raheel Nawaz Journal of Medical Systems , Volume 43, Pages 1-11	
Impact Factor: 3.058 Quartile: 1 Citations: 8	
DOI: https://doi.org/10.1007/s10916-019-1399-x	
MRI Reconstruction from Sparse K-Space Data using Low Dimensional Manifold Model	2019
Saim Abdullah M. Bilal Arif Tahir Mahmood Omar Arif IEEE Access , Volume 7, Pages 88072-88081	
Impact Factor: 3.745 Quartile: 1 Citations: 15	
DOI: 10.1109/ACCESS.2019.2925051	
A Framework to Estimate the Nutritional Value of Food in Real Time Using Deep Learning Techniques	2018
RAZA YUNUS OMAR ARIF HAMMAD AFZAL MUHAMMAD FAISAL AMJAD HAIDER ABBAS HIRA NOOR BOKHAR SYEDA TAZEEN HAIDER NAUMAN ZAFAR RAHEEL NAWAZ IEEE Access , Volume 7, Pages 2643-2652	
Impact Factor: 4.098 Quartile: 1 Citations: 89	
DOI: 10.1109/ACCESS.2018.2879117	
Multi-Agent Framework for Cloud-based Management of Collaborative Robots	2018
Omar Arif Tooba Samad Sohail Iqbal Peter Bloodsworth Asad Waqar Malik International Journal of Advanced Robotic Systems , -	
Impact Factor: 1.223 Quartile: 4 Citations: 8	
DOI: 10.1177/1729881418785073	
A Multi-Agent Framework for Cloud-based Management of Collaborative Robots	2018
Tooba Samad Muhammad Sohail Iqbal Asad Waqar Malik Omar Arif Peter Bloodsworth International Journal of Advanced Robotic Systems , Pages 1-13	
Impact Factor: 1.223 Quartile: 4	
DOI: 0.1177/1729881418785073	
A Hybrid-Adaptive Neuro-Fuzzy Inference System for Multi-Objective Regression Test Suites Optimization	2018
Zeshan Anwar Hammad Afzal Nazia Bibi Haider Abbas Omar Arif Athar Mohsin Neural Computing and Applications , Pages 1-15	
Impact Factor: 4.664 Quartile: 1 Citations: 21	
DOI: 10.1007/s00521-018-3560-8	
Non-linear eigenspace visual object tracking	2016
Omar Arif Iftikhar Majeed Engineering Applications of Artificial Intelligence , Volume 55, Pages 363-374	
Impact Factor: 2.894 Quartile: 1 Citations: 5	
DOI: 10.1016/j.engappai.2016.08.005	
Potential of Time-of-Flight Range Imaging for Object Identification and Manipulation in Construction	2014

Soumitry J. Ray Patricio Vela Jochen Teizer Omar Arif
Journal of Computing in Civil Engineering, Volume 28, Issue 6
Impact Factor: 1.268 | **Quartile:** 2 | **Citations:** 8
DOI: 10.1061/(ASCE)CP.1943-5487.0000304

Tracking Using Motion Estimation With Physically Motivated Inter-Region Constraints 2014

Ganesh Sundaramoorthi Byung-Woo Hong Anthony Yezzi Omar Arif
IEEE Transactions on Medical Imaging, Volume 33, Issue 9, Pages 1875-1889
Impact Factor: 3.390 | **Quartile:** 1 | **Citations:** 7
DOI: 10.1109/TMI.2014.2325040

Kernel Map Compression for Speeding the Execution of Kernel-Based Methods 2011

Omar Arif Patricio Vela
IEEE Transactions on Neural Networks and Learning Systems, Volume 22, Issue 6, Pages 870-879
Impact Factor: 2.952 | **Quartile:** 1 | **Citations:** 2
DOI: 10.1109/TNN.2011.2127485

Tracking multiple workers on construction sites using video cameras 2010

J. Yang Omer Arif P.A. Vela J. Teizer Zhongke Shi
Advanced Engineering Informatics, Volume 24, Issue 4, Pages 428-434, Special Issue SI
Impact Factor: 1.4 | **Quartile:** 1 | **Citations:** 155
DOI: 10.1016/j.aei.2010.06.008

Conference Proceedings

Multi-label Generalized Zero-Shot Learning Using Identifiable Variational Autoencoders 2023

Omar Arif Muqadas Gull
International Conference on Extended Reality, res.country(109,)
Citations: N/A
DOI: https://link.springer.com/chapter/10.1007/978-3-031-43404-4_3

Forecasting of Electricity Generation for Hydro Power Plants 2020

Umer Javaid Muhammad Moazam Fraz Imran Mehmood Omar Arif Muhammad Shahzad Muhammad Shahzad Muhammad Shahzad
IEEE 17th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET 2020) res.country(233,)
Citations: 1
DOI: 10.1109/HONET50430.2020.9322841

Compressed Sensing MRI Reconstruction using Low Dimensional Manifold Model 2019

Saim Abdullah Omar Arif Tahir Mehmud Muhammad Bilal Arif
2019 IEEE EMBS International Conference on Biomedical & Health Informatics (BHI), res.country(233,)
Citations: N/A
DOI: 10.1109/BHI.2019.8834498

Editorial Activities

Reviewed Papers for Journals 2018
Impact Factor: 7.9