

Dr. Saad Arif

Assistant Professor



Personal Data:

Nationality | Pakistani
Date of Hire | March 2024
Date Rank Obtained | January 2016
Department | Mechanical Engineering
Email | sarif@kfu.edu.sa
Office No | 1056
Office Phone No | + 966 13 589 7701

Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Robotics & Intelligent Machine Engineering	Brain-Computer Interfacing, Neurorobotics, Smart Healthcare	National University of Sciences and Technology	Islamabad, Pakistan	Dec 2021
Masters (M.Sc.)	Mechatronics Engineering	Intelligent Automotive Systems, Fuzzy Control, Embedded Mechatronics	National University of Sciences and Technology	Islamabad, Pakistan	Dec 2012
Bachelor (B.Sc.)	Mechatronics Engineering	Mobile Robotics, Motion Planning & Heuristics in AI, Embedded Control	Air University	Islamabad, Pakistan	Jul 2009

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Brain-Computer Interface for Mental State Detection of Drivers
Master	Embedded Motion Control System based on Intelligent Cruise Control Technique
Bachelor	Autonomous Ground Vehicle (AGV) - Path Planning and Motion Control System

Experiences:

Title of Job	Address of Work	Country	Date	
Assistant Professor	College of Engineering, King Faisal University, Al-Ahsa	Saudi Arabia	From	Mar 2024
			To	Date
Assistant Professor	HITEC University, Taxila	Pakistan	From	Jan 2016
			To	Feb 2024
Project Engineer	Gaitech Robotics, Shanghai	China	From	Mar 2017
			To	Feb 2018
Lecturer	HITEC University, Taxila	Pakistan	From	Feb 2011
			To	Jan 2016
Lecturer	Swedish College of Engineering & Technology, Wah Cantt	Pakistan	From	Dec 2009
			To	Feb 2011

Research Interests:

1. Artificial Intelligence, Machine & Deep Learning, Reinforcement Learning, Neuromorphic Systems
2. Biosensors & Physiological Measurements, Computational Neuroscience, Brain-Machine Interface
3. Neurorobotics, Bio-mechatronics, Rehabilitation & Assistive Robotics, Biomedical Engineering
4. Industrial Mechatronics and Robotics, Intelligent Control and Automation, Industry 4.0 & 5.0

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	A. Singh, H. A. Abosaq, S. Arif , Z. Mushtaq, M. Irfan, G. Abbas, A. Ali, A. A. Mazroa	Securing Cloud-Encrypted Data: Detecting Ransomware-as-a-Service (RaaS) Attacks through Deep Learning Ensemble	Computers, Materials & Continua, Tech Science Press, 2024	Click Here
2	M. A. Latif, Z. Mushtaq, S. Arif , S. Rehman, M. F. Qureshi, N. A. Samee, M. Alabdulhafith, Y. H. Gu, M. A. Al-masni	Improving Thyroid Disorder Diagnosis via Ensemble Stacking and Bidirectional Feature Selection	Computers, Materials & Continua, Tech Science Press, 2024	Click Here
3	H. Ahmad, A. R. Shah, S. K. Afaq, M. M. Azad, S. Arif , M. R. Siddiqi, L. Xie	Development and characterization of kevlar and glass fibers reinforced epoxy/vinyl ester hybrid resin composites	Polymer Composites, Wiley, 2024	Click Here
4	A. Khalid, Z. Mushtaq, S. Arif , K. Zeb, M. A. Khan, S. Bakshi	Control Schemes for Quadrotor UAV: Taxonomy and Survey	ACM Computing Surveys, Association for Computing Machinery, 2023	Click Here
5	S. Arif , S. Munawar, H. Ali	Driving Drowsiness Detection Using Spectral Signatures of EEG-Based Neurophysiology	Frontiers in Physiology, Frontiers, 2023	Click Here
6	A. Usman, S. Arif , A. H. Raja, R. Kouhia, A. Almqvist, M. Liwicki	Machine Learning Composite Nanoparticle-enriched Lubricant Oil Development for Improved Frictional Performance—An Experimentation	Lubricants, MDPI, 2023	Click Here
7	I. Ali, Z. Mushtaq, S. Arif , A. D. Algarni, N. F. Soliman, W. El-Shafai	Hyperspectral Images-Based Crop Classification Scheme for Agricultural Remote Sensing	Computer Systems Science and Engineering, Tech Science Press, 2023	Click Here
8	A. R. Shah, H. Ahmad, M. H. Abid, S. Arif , Z. Khan, M. Khan, F. Djavanroodi	Development and Characterization of Jute/Cotton Reinforced Epoxy/Polyester Hybrid-resin Composite Material	Mechanics of Advanced Materials and Structures, Taylor & Francis, 2023	Click Here

9	A. Shahzad, A. Mushtaq, A. Q. Sabeeh, Y. Y. Ghadi, Z. Mushtaq, S. Arif , M. Z. Rehman, M. F. Qureshi, F. Jamil	Automated Uterine Fibroids Detection in Ultrasound Images Using Deep Convolutional Neural Networks	Healthcare, MDPI, 2023	Click Here
10	S. Khalil, U. Nawaz, Zubariah, Z. Mushtaq, S. Arif , M. Z. Rehman, M. F. Qureshi, A. Malik, A. Aleid, K. Alhussaini	Enhancing Ductal Carcinoma Classification Using Transfer Learning With 3D U-Net Models in Breast Cancer Imaging	Applied Sciences, MDPI, 2023	Click Here
11	T. Akhtar, S. O. Gilani, Z. Mushtaq, S. Arif , M. Jamil, Y. Ayaz, S. I. Butt, A. Waris	Effective Voting Ensemble of Homogenous Ensembling with Multiple Attribute-Selection Approaches for Improved Identification of Thyroid Disorder	Electronics, MDPI, 2021	Click Here
12	S. Arif , M. J. Khan, N. Naseer, K.-S. Hong, H. Sajid, Y. Ayaz	Vector Phase Analysis Approach for Sleep Stage Classification: A Functional Near-Infrared Spectroscopy-Based Passive Brain–Computer Interface	Frontiers in Human Neuroscience, Frontiers, 2021	Click Here
13	S. Arif , S. Munawar, R. R. Marie, S. A. Shah	Leveraging Wavelets and Deep CNN for Sleep Pattern Recognition in Road Safety: An EEG Study	Communications in Computer and Information Science, Springer Link, 2024	Click Here
14	A. Shahid, S. Arif , M. Y. Qadri, S. Munawar	Power Optimization Using Clock Gating and Power Gating: A Review	Innovative Research and Applications in Next-Generation High Performance Computing, IGI Global, 2016	Click Here

Language Proficiency:

1. English
2. Urdu
3. Punjabi