

Nasir Rashid

Defence Faculty

College of Electrical & Mechanical Engineering

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About

Dr. Nasir Rashid is working as Defence Faculty in the College of Electrical & Mechanical Engineering. Dr. Nasir Rashid has a PhD in Mechatronics Engineering. Dr. Nasir Rashid has published 47 research articles & conference papers having a citation count of 368, carried out 8 projects and filed 8 intellectual property.

Qualifications

PhD in Mechatronics Engineering NUST, Islamabad , Pakistan	2013 - 2019
MS in Artificial Intelligence And Robotics NUST, Islamabad , Pakistan	2007 - 2010
BSc in Mechanical Engineering UET Lahore , Pakistan	1990 - 1993

Experience

Defence Faculty College of Electrical & Mechanical Engineering	2009- Present
Associate Professor NUST, College of E&ME , Department of Mechatronics Engineering NUST, College of E&ME, Peshawar Road Rawalpindi	2010 - 2019
Instructor Class 'C' College of E&ME , College of E&ME	1999 - 2002

Awards

COAS Commendation Card Remarks by General Qamar Javed Bajwa (COAS) " Your name has been brought into my notice for devotion to duty, selfless dedication and outstanding performance during discharge of duties. I congratulate you on this exemplary display of devotion to duty and pray to Almighty Allah that He may reward you. I have directed that a note to this effect should be made in your record and service/dossier"	2018
Best Teacher Award	2015

Professional Memberships

PEC

Research Projects

National Projects

Design and Fabrication Of EMG Based Activation and Proportional Lower LIMB Rehabilitation Device Funding Agency: IGNITE Amount: PKR 72,901.00 Status: Completed	2025
Development of a Level-5 Autonomous Ground Vehicle targeted for logistics operation Funding Agency: NUST Amount: PKR 6,322,000.00 Status: Approved_inprocess	2023
3-Axis Modular CNC Milling Machine Funding Agency: IGNITE Amount: PKR N/A Status: Completed	2021
Indigenous Design and Development of Underwater Glider in the field of Control Systems Funding Agency: NESCOM Amount: PKR 500,000.00 Status: Completed	2021
Solar Panel Cleaning Robot Funding Agency: IGNITE Amount: PKR 79,800.00 Status: Completed	2019
Human Immune System EEG Classification with implementation on upper limb prosthesis Funding Agency: IGNITE Amount: PKR 70,000.00 Status: Completed	2018
Development of RC throw able vehicle with surveillance capability Funding Agency: IGNITE Amount: PKR 70,000.00 Status: Completed	2018
Establishment of National Center of Robotics and Automation (Robot Design and Development Lab - RDDDL) Funding Agency: HEC Amount: PKR 82,506,000.00 Status: Approved_inprocess	2018

International Projects

Research Articles

InterAcT: A Generic Keypoints-Based Lightweight Transformer Model for Recognition of Human Solo Actions and Interactions in Aerial Videos <i>Mubashir Shah Tahir Habib Nawaz Nasir Rashid Muhammad Osama Ali Rab Nawaz</i> <i>PLOS ONE</i> , Volume 20(5), Article Number e0323314 Impact Factor: 2.900 Quartile: 1 DOI: https://doi.org/10.1371/journal.pone.0323314	2025
Emotion Fusion-Sense (Emo Fu-Sense) – A novel multimodal emotion classification technique <i>Muhammad Umair Nasir Rashid Umar Shahbaz Khan Amir Hamza Javaid Iqbal</i> <i>Biomedical Signal Processing and Control</i> , Volume 94, Article Number: 106224 Impact Factor: 4.9 Quartile: 1 DOI: 10.1016/j.bspc.2024.1062	2024
Skeletal Keypoint-Based Transformer Model for Human Action Recognition in Aerial Videos <i>Shahab Uddin Tahir Habib Nawaz James Ferryman Nasir Rashid MD Asaduzzaman Raheel Nawaz</i> <i>IEEE Access</i> , Volume: 12, Page(s): 11095-11103 Impact Factor: 3.9 Quartile: 2 Citations: 7 DOI: 10.1109/ACCESS.2024.3354389	2024

A novel framework for classification of two-class motor imagery EEG signals using logistic regression classification algorithm <i>Rabia Avais Khan Nasir Rashid Muhammad Shahzaib Umar Farooq Malik Arshia Arif Javaid Iqbal M Mubasher Saleem Umar Shahbaz Khan Mohsin Islam Tiwana</i> <i>PLOS ONE</i> , Volume 18(9), Article Number e0276133 Impact Factor: 3.7 Quartile: 2 Citations: 7 DOI: https://doi.org/10.1371/journal.pone.0276133	2023
Multi-criteria Handoff Decision making Algorithm for Seamless Mobility in Heterogenous Wireless Networks <i>Muhammad Wajid Khan Umar Shahbaz Khan Muhammad Mubasher Saleem Nasir Rashid</i> <i>Journal of Communications</i> , Volume 18, Issue 3, Pages 164-171 Impact Factor: N/A Citations: 4 DOI: 10.12720/jcm.18.3.164-171	2023
IoT-Based Non-Intrusive Automated Driver Drowsiness Monitoring Framework for Logistics and Public Transport Applications to Enhance Road Safety <i>Muhammad Adil Khan Tahir Habib Nawaz Umar Shahbaz Khan Amir Hamza Nasir Rashid</i> <i>IEEE Access</i> , Volume 11, Pages 14385-14397 Impact Factor: 3.476 Quartile: 2 Citations: 44 DOI: https://doi.org/10.1109/ACCESS.2023.3244008	2023
Patch-wise weed coarse segmentation mask from aerial imagery of sesame crop <i>Syed Imran Moazzam Umar Shahbaz Khan Waqar Shahid Qureshi Mohsin Islam Tiwana Nasir Rashid Ameer Hamza Kunwar Faraz Ahmed Tahir Habib Nawaz</i> <i>Computers and electronics in agriculture</i> , Volume 203, Article Number 107458 Impact Factor: 6.757 Quartile: 1 Citations: 12 DOI: https://doi.org/10.1016/j.compag.2022.107458	2022
A new method for pixel classification for rice variety identification using spectral and time series data from Sentinel-2 satellite imagery <i>Usman Rauf Waqar Shahid Qureshi Hamid Jabbar Ayesha Zeb Alina Mirza Eisa Alanazi Umar Shahbaz Khan Nasir Rashid</i> <i>Computers and electronics in agriculture</i> , Volume 193, Article Number 106731 Impact Factor: 5.565 Quartile: 1 Citations: 16 DOI: https://doi.org/10.1016/j.compag.2022.106731	2022
A Patch-Image Based Classification Approach for Detection of Weeds in Sugar Beet Crop <i>Syed Imran Muazzam Umar Shahbaz Khan Waqar Shahid Qureshi Mohsin Islam Tiwana Nasir Rashid Waleed S. Alasmary Javaid Iqbal Ameer Hamza</i> <i>IEEE Access</i> , Volume 9, Pages 121698-121715 Impact Factor: 3.476 Quartile: 2 Citations: 39 DOI: 10.1109/ACCESS.2021.3109015	2021
Analysis of visual features and classifiers for Fruit classification problem <i>Sumaira Gahzal Waqar Shahid Qureshi Umar Shahbaz Khan Javaid Iqbal Nasir Rashid Mohsin Islam Tiwana</i> <i>Computers and Electronics in Agriculture</i> , Volume 187, Article Number 106267 Impact Factor: 6.757 Quartile: 1 Citations: 64 DOI: https://doi.org/10.1016/j.compag.2021.106267	2021
Advancements, Trends and Future Prospects of Lower Limb Prosthesis <i>Muhammad Asif Mohsin Islam Tiwana Umar Shahbaz Khan Waqar Shahid Qureshi Javaid Iqbal Nasir Rashid Noman Naseer</i> <i>IEEE Access</i> , Volume 9, Pages 85956-85977 Impact Factor: 3.476 Quartile: 2 Citations: 56 DOI: 10.1109/ACCESS.2021.3086807	2021
Improving Classification Performance of Four Class FNIRS-BCI Using Mel Frequency Cepstral Coefficients (MFCC) <i>Umar Shahbaz Khan Ameer Hamza Umer Izhar Javaid Iqbal Nasir Rashid Waqar Shahid Qureshi Mohsin Islam Tiwana Muhammad Saad Bin Abdul Ghaffar</i> <i>Infrared Physics and Technology</i> , Volume 112, Article Number 103589 Impact Factor: 2.638 Quartile: 2 Citations: 32 DOI: https://doi.org/10.1016/j.infrared.2020.103589	2021
EEG Based Four Class Human Limb Movement Detection by Mel Frequency Cepstral Coefficients and Quadratic Multi-Class Support Vector Machine <i>Nasir Rashid Javaid Iqbal Umar Shahbaz Khan Mohsin Islam Tiwana Amir Hamza</i> <i>Journal of Engineering and Applied Sciences</i> , Volume 39, Issue 1, Pages 116-126	2020

Impact Factor: - DOI: http://dx.doi.org/10.17582/journal.jeas/39.1.116.126	
Human Activity Recognition using 2D Skeleton Data and Supervised Machine Learning <i>Umar Shahbaz Khan Javaid Iqbal Nasir Rashid Muhammad Mubasher Saleem Sumaira Ghazal</i> <i>IET Image Processing</i> , Volume: 13, Issue: 13, Pages: 2572-2578 Impact Factor: 1.995 Quartile: 3 Citations: 40 DOI: 10.1049/iet-ipr.2019.0030	2019
Artificial Immune System - Negative Selection Classification Algorithm (NSCA) for Four Class Electroencephalogram (EEG) Signals <i>Nasir Rashid Javaid Iqbal Fahad Mahmood Anam Abid Umar Shahbaz Khan Mohsin I. Tiwana</i> <i>Frontiers in Human Neuroscience</i> , Volume: 12 Article Number: 439 Impact Factor: 2.870 Quartile: 2 Citations: 22 DOI: 10.3389/fnhum.2018.00439	2018
Design of Embedded System for Multivariate Classification of Finger and Thumb Movements Using EEG Signals for Control of Upper Limb Prosthesis <i>Amna Javed Mohsin Islam Tiwana Umar Shahbaz Khan Javaid Iqbal Nasir Rashid</i> <i>BioMed Research International</i> , Volume 2018, Article ID 2695106, 11 pages Impact Factor: 2.197 Quartile: 3 Citations: 16 DOI: 10.1155/2018/2695106	2018
Efficient FIR Filter Implementations for Multichannel BCIs Using Xilinx System Generator <i>Usman Ghani Muhammad Wasim Umar Shahbaz Khan Muhammad Mubasher Saleem Ali Hassan Nasir Rashid Mohsin Islam Tiwana Amir Hamza Amir Kashif</i> <i>BioMed Research International</i> , Volume 2018, Article ID 9861350, 9 pages Impact Factor: 2.197 Quartile: 3 Citations: 6 DOI: https://doi.org/10.1155/2018/9861350	2018
Recognition of finger movements using EEG signals for control of upper limb prosthesis using logistic regression <i>Amna Javed Mohsin Tiwana Moazzam Islam Tiwana Nasir Rashid Javaid Iqbal Umar Shahbaz Khan</i> <i>Biomedical Research-India</i> , Volume 28, Issue 17, Pages 7361-7369 Impact Factor: - DOI: http://www.biomedres.info/biomedical-research/recognition-of-finger-movements-using-eeg-signals-for-control-of-upper-limb-prosthesis-using-logistic-regression-8334.html	2017
Kinematic and Energy Analysis of Single Axis Solar Panel Tracker System (A Comparative Study) <i>Muhammad Arif Javaid Iqbal Nasir Rashid Umer Izhar</i> <i>Journal of Emerging Trends in Engineering and Applied Sciences</i> , Vol 4, No 1, Pages 24-29 Impact Factor: 0 DOI: -	2013

Conference Proceedings

Impact Testing of Different Materials on Wheels Used in Throwable Unmanned Ground Vehicles <i>Hamza Sohail Amir Hamza Nasir Rashid Muhammad Saad Ali Taha Ghani</i> <i>2nd International Conference on Modern Technologies in Mechanical & Materials Engineering (MTME-2024)</i> , res.country(177,)	2024
Optimization of Impact Resistant Throwable Unmanned Ground Vehicle Using Mathematical Modeling Techniques <i>Hamza Sohail Amir Hamza Nasir Rashid Muhammad Saad Ali Taha Ghani</i> <i>2nd International Conference on Modern Technologies in Mechanical & Materials Engineering (MTME-2024)</i> , res.country(177,)	2024
Design and Analysis of Throwable Unmanned Ground Vehicle <i>Hamza Sohail Amir Hamza Nasir Rashid Muhammad Saad Ali Taha Ghani</i> <i>2023 International Conference on Robotics and Automation in Industry (ICRAI)</i> , res.country(177,)	2023

Deep Learning-based Feature Fusion for Action Recognition Using Skeleton Information <i>Fahad Ul Hassan Asif Mattoo Umar Shahbaz Khan Tahir Habib Nawaz Nasir Rashid</i> 2023 International Conference on Robotics and Automation in Industry, ICRAI 2023, res.country(177,) Citations: N/A DOI: 10.1109/ICRAI57502.2023.10089577	2023
Characterization of Motor Imagery based EEG signals with Hilbert Transform <i>Umar Farooq Malik Nasir Rashid Rabia Awais Khan Muhammad Shahzaib Arshia Arif Ayesha Zeb</i> 2021 International Conference on Robotics and Automation in Industry (ICRAI), res.country(282,) Citations: N/A DOI: 10.1109/ICRAI54018.2021.9651412	2021
Improved Classification Accuracy of Four Class FNIRS-BCI <i>Muhammad Saad Bin Abdul Ghaffar Noman Naseer Umar Shahbaz Khan Nasir Rashid Mohsin Islam Tiwana</i> 12th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), res.country(188,) Citations: N/A DOI: 10.1109/ECAI50035.2020.9223258	2020
Motor Imagery based Multivariate EEG Signal Classification for Brain Controlled Interface Applications <i>Fatima Farooq Nasir Rashid Amber Farooq Muzamil Ahmed Ayesha Zeb Javaid Iqbal Fatima Farooq Nasir Rashid Amber Farooq Muzamil Ahmed Ayesha Zeb Javaid Iqbal Fatima Farooq Nasir Rashid Amber Farooq Muzamil Ahmed Ayesha Zeb Javaid Iqbal</i> 7th International Conference on Mechatronics Engineering (ICOM) (pp. 1-6). IEEE, 2019, res.country(157,) Citations: N/A DOI: DOI: 10.1109/ICOM47790.2019.8952008	2019
Development of NI my-RIO Based Control Module for Versatile Terrain Autonomous Mobility Platform (VTAMP) <i>Abubakar Siddique Abdullah Afridi Qazi Umer Jamil Dr Mohsin Islam Tiwana Hashim Akram Muhammad Umar Masood Dr Nasir Rashid Dr Javaid Iqbal</i> 2019 International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,) Citations: N/A DOI: 10.1109/ICRAI47710.2019.8967352	2019
Power Line Interference Cancellation from EEG Signals using RLS Algorithm <i>Muzammil Ahmed Amber Farooq Fatima Farooq Nasir Rashid Ayesha Zeb Muzammil Ahmed Amber Farooq Fatima Farooq Nasir Rashid Ayesha Zeb</i> Muzammil Ahmed Amber Farooq Fatima Farooq 2019 International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,) Citations: N/A DOI: 10.1109/ICRAI47710.2019.8967392	2019
Unorthodox Approach to Classify EEG Signals for Upper Limb Prosthesis Application <i>Nasir Rashid Fahad Mahmood Javaid Iqbal</i> 18th International Conference on Control, Automation and Systems (ICCAS 2018), res.country(121,) Citations: N/A DOI: https://www.researchgate.net/profile/Nasir_Rashid4/publication/330015114_Unorthodox_Approach_to_Classify_EEG_Signals_for_Upper_Limb_Prosthesis_Application/links/5c2a0a1092851c22a350baae/Unorthodox-Approach-to-Classify-EEG-Signals-for-Upper-Limb-Prosthesis-Application.pdf	2018
Design and Experimental Testing of an In-Parallel Actuated 3 DOF Serial Robotic Manipulator for Unmanned Ground Vehicle <i>Muhammad Umar Masood Muhammad Mujtaba Muhammad Ahsan Sami Nasir Rashid Javaid Iqbal</i> 2018 3rd Asia-Pacific Conference on Intelligent Robot Systems (ACIRS), res.country(197,) Citations: N/A DOI: 10.1109/ACIRS.2018.8467220	2018
Comparative Analysis of EMG Signal Features in Time-domain and Frequency-domain using MYO Gesture Control <i>Haider Ali Javaid Nasir Rashid Mohsin Islam Tiwana Muhammad Waseem Anwar</i> 4th International Conference on Mechatronics and Robotics Engineering held from 07-11 Feb 2018 in France res.country(75,) Citations: N/A DOI: 10.1145/3191477.3191481	2018
Object tracking with a robotic manipulator mounted on ground vehicle using Image Based Visual Servoing <i>Muhammad Ahsan Sami Muhammad Umar Masood Muhammad Waqar Muhammad Mujtaba Abraham Ali Shah Adnan Shujah Nasir Rashid Mohsin I. Tiwana Javaid Iqbal</i>	2017

- 17th International Conference on Control, Automation and Systems (ICCAS), res.country(121.)
- Citations:** N/A
- DOI:** 10.23919/ICCAS.2017.8204442
- Design and development of a semi-autonomous stair climbing robotic platform for rough terrains** 2017
- Nasir Rashid Muhammad Umar Masood Muhammad Ahsan Sami Haris Sohail Muhammad Mujtaba Muhammad Abubakar Siddique Hashir Akram Nasir Rashid Mohsin I. Tiwana Javaid Iqbal*
- 17th International Conference on Control, Automation and Systems (ICCAS), res.country(121.)
- Citations:** N/A
- DOI:** 10.23919/ICCAS.2017.8204443
- Design of a novel Simulink model for surface electromyographic (SEMG) sensor design for prosthesis control** 2015
- Javaid Iqbal Mohsin Islam Tiwana Afzaal Ahmad Nasir Rashid Asad Ullah Awan*
- 2015 IEEE Student Symposium in Biomedical Engineering & Sciences (ISSBES), res.country(157,)
- Citations:** N/A
- DOI:** 10.1109/ISSBES.2015.7435917
- Inverse Kinematics Control of Redundant Planar Manipulator with Joint Using Numerical Method** 2015
- Mohsin Islam Tiwana Nasir Rashid Javaid Iqbal Raabid Hussain Asim Qureshi Rasheeq A. Mughal Raafay Ijaz*
- 2015 15th International Conference on Control, Automation and Systems (ICCAS), res.country(121,)
- Citations:** N/A
- DOI:** 10.1109/ICCAS.2015.7364731
- Development of FPGA-based System for Control of an Unmanned Ground Vehicle with 5-DOF Robotic Arm** 2015
- Nasir Rashid Mohsin islam tiwana Javaid Iqbal Muhammad Umar Masood Abdullah Afaq Mohammad Ahmed Ahmed Kama1 Muhammad Shahzaib Asadullah Awan*
- 2015 15th International Conference on Control, Automation and Systems (ICCAS), res.country(121,)
- Citations:** N/A
- DOI:** 10.1109/ICCAS.2015.7365015
- Inverse Kinematics Control of Redundant Planar Manipulator with Joint Constraints using Numerical Method** 2015
- Raabid Hussain Asim Qureshi Rasheeq A Raabid Hussain Asim Qureshi Rasheeq A Nasir Rashid Mohsin Islam Tiwana Javaid Iqbal*
- 15th International Conference on Control, Automaton and Systems held from 13-16 Oct 2015 in Korea , res.country(121,)
- Citations:** N/A
- DOI:** <https://ieeexplore.ieee.org/document/7364731>
- Stair Case Perception Using MonoScopic Vision for a Teleoperated vehicle** 2015
- Nasir Rashid Javaid Iqbal Mohsin Islam Tiwana Asim Qureshi Raabid Hussain Rasheeq Ali Raafay Ijaz*
- 2015 Signal Processing: Algorithms, Architectures, Arrangements, and Applications (SPA), res.country(178,)
- Citations:** N/A
- DOI:** 10.1109/SPA.2015.7365155
- Articulated design architecture and open-loop command and control system for tele-operated Versatile Terrain Mobility Platform** 2015
- Mohsin I. Tiwana Javaid Iqbal Nasir Rasid Raabid Hussain Raafay Ijaz Rasheeq A. Mughal Asim Qureshi*
- 2015 International Symposium on Innovations in Intelligent SysTems and Applications (INISTA), res.country(68,)
- Citations:** N/A
- DOI:** 10.1109/INISTA.2015.7276749
- Development of a Low-Cost Anthropomorphic Manipulator for Commercial Usage** 2015
- Mohsin Islam Tiwana Javaid Iqbal Nasir Rashid Razeen Hussain Mustafa A. Shahid Jibran A. Khan*
- 2015 International Symposium on Innovations in Intelligent SysTems and Applications (INISTA), res.country(68,)
- Citations:** N/A
- DOI:** 10.1109/INISTA.2015.7276750
- Articulated design architecture and open-loop command and control system for a tele-operated Versatile Terrain Mobility Platform** 2015
- Raabid Hussain Raafay Ijaz Rasheeq Ali Nasir Rashid Mohsin Islam Tiwana Javaid Iqbal*
- International Symposium on Innovations in Intelligent SysTems and Applications held from 2-4 Sep 2015 in Madrid, Spain, res.country(68,)
- Citations:** N/A
- DOI:** -

Evaluation of LDA, QDA and decision trees for multifunctional controlled below elbow prosthetic limb using EMG signals <i>Fateh Muhammad Hafsah Akhtar Zarmina Muhammad Syed Omer Gilani Umar Ansari Nasir Rashid</i> <i>2014 International Conference on Robotics and Emerging Allied Technologies in Engineering (iCREATE), res.country(177,)</i> Citations: 3 DOI: 10.1109/iCREATE.2014.6828350	2014
Development of an On-board Diagnostic (OBD) Kit for Troubleshooting of Compliant Vehicles <i>Nasir Rashid M Awais Khan Niazi Anique Nayyar Aii Raza Asad Ullah Awan Muhammad Hamid Ali Javaid Iqbal</i> <i>2013 IEEE 9th International Conference on Emerging Technologies (ICET), res.country(177,)</i> Citations: N/A DOI: 10.1109/ICET.2013.6743551	2013
Evaluation of ANN, LDA and Decision Trees for EEG Based Brain Computer Interface <i>Nasir Rashid Javaid Iqbal Asif Ishfaq Ahsan Javed Awan</i> <i>2013 IEEE 9th International Conference on Emerging Technologies (ICET), res.country(177,)</i> Citations: N/A DOI: 10.1109/ICET.2013.6743513	2013
Design of Low Cost And Portable EMG Circuitry For Use in Active Prosthesis Applications <i>Javaid Iqbal Nasir Rashid M.Hamza Khan Ali Wajdan Muhammad Khan Haider Ali UMAR SHAHBAZ KHAN</i> <i>2012 International Conference of Robotics and Artificial Intelligence, res.country(177,)</i> Citations: N/A DOI: 10.1109/ICRAI.2012.6413389	2012
Design of Non-Conventional Chain Drive Mechanism for a Mini-Robot <i>Umar Shahbaz Khan Javaid Iqbal Nasir Rashid M.A.Khan Sohail Anjum Nabeel Kamal Umar Izhar</i> <i>2012 International Conference on Robotics and Artificial Intelligence, ICRAI 2012, res.country(177,)</i> Citations: N/A DOI: 10.1109/ICRAI.2012.6413403	2012
Optimized circuit for EMG signal processing <i>Umar Shahbaz Khan Javaid Iqbal Nasir Rashid Ali Salman Umer Izhar</i> <i>2012 International Conference of Robotics and Artificial Intelligence, res.country(177,)</i> Citations: N/A DOI: 10.1109/ICRAI.2012.6413390	2012

Editorial Activities

Actuators Reviewed Papers for Journals Impact Factor: N/A	2021
IEEE Access Reviewed Papers for Journals Impact Factor: 3.367	2021

Intellectual Property

Copyrights

Unmanned Ground Vehicle TREC Operating Software	2020
Status: Filed	
IED Disposal Tracked Robot Operating Software	2020
Status: Filed	

Patents

Torque Asjustable Coupling for Hand Prosthesis	2016
Status: Filed	

Industrial Designs

Tri-Blade Impact-based motorized Deminer (class-01)	2022
Status: Filed	
Flexible Mobile Automated Guided Vehicle Platform	2021
Status: Filed	
Defender Diagnostic Scanner Pakistan	2021
Status: Filed	
1 DoF (Degree of Freedom) upper limb Prosthetic gripper	2019
Status: Filed	
1 DoF (Degree of Freedom) upper limb prosthetic gripper	2019
Status: Filed	

Trademarks