

Muhammad Jameel Nawaz Malik

Assistant Professor
School of Electrical Engineering and Computer Science

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About

Dr. Muhammad Jameel Nawaz Malik is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Muhammad Jameel Nawaz Malik has a PhD in Computer Vision and Deep Learning . Dr. Muhammad Jameel Nawaz Malik has published 20 research articles & conference papers having a citation count of 270, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Computer Vision and Deep Learning TU Kaiserslautern , Germany	2016 - 2021
MS in (Digital System Design) NUST, Islamabad , Pakistan	2009 - 2011
BS in (Electrical Enng) UET Taxila , Pakistan	2005 - 2009

Experience

Assistant Professor School of Electrical Engineering and Computer Science	2024- Present
Assistant Professor School of Electrical Engineering and Computer Science	2023 - 2024
Assistant Professor School of Electrical Engineering and Computer Science	2022 - 2023
Assistant Professor School of Electrical Engineering and Computer Science	2021 - 2022
Assistant Professor School of Electrical Engineering and Computer Science	2014 - 2021
Lecturer School of Electrical Engineering and Computer Science	2011 - 2014
Assistant Professor NUST , h-12 Islamabad	2011 - 2016

Research Projects

National Projects	
Vision-based 3D Human Hand Tracking System Funding Agency: NUST Amount: PKR 1,000,000.00 Status: Completed	2024
International Projects	

- ShapeGraFormer: GraFormer-Based Network for Hand-Object Reconstruction From a Single Depth Map** 2024
Ahmed Tawfik Aboukhadra Muhammad Jameel Nawaz Malik Nadia Robertini Ahmed Elhayek Didier Stricker
IEEE Access , Volume 12, Pages 124021-124031
Impact Factor: 3.400 | **Quartile:** 2 | **Citations:** 2
DOI: 10.1109/ACCESS.2024.3445993
- HandVoxNet++: 3D Hand Shape and Pose Estimation using Voxel-Based Neural Networks** 2022
Muhammad Jameel Nawaz Malik Soshi Shimada Ahmed Elhayek Sk Aziz Ali Vladislav Christian Theobalt Didier Stricker
IEEE Transactions on Pattern Analysis and Machine Intelligence , Volume 44
Impact Factor: 16.389 | **Quartile:** 1 | **Citations:** 23
DOI: 10.1109/TPAMI.2021.3122874
- Graph-Based Hand-Object Meshes and Poses Reconstruction With Multi-Modal Input** 2021
Murad Almadani Ahmed Elhayek Jameel Malik Didier Stricker
IEEE Access , Volume 9, Pages 136438-136447
Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 6
DOI: 10.1109/ACCESS.2021.3117473
- DeepAirSig: End-to-End Deep Learning Based in-Air Signature Verification** 2020
Muhammad Jameel Nawaz Malik Dr. Ahmed Elhayek Suparna Guha Sheraz Ahmed Amna Gillani Didier Stricker
IEEE Access , Volume 8, Pages 195832-195843
Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 27
DOI: 10.1109/ACCESS.2020.3033848
- Real-Time Energy Efficient Hand Pose Estimation: A Case Study** 2020
Mhd Rashed Al Koutayni Vladimir Rybalkin Muhammad Jameel Nawaz Malik Ahmed Elhayek Christian Weis Gerd Reis Norbert Wehn Didier Stricker
Sensors , Volume 20(10), Article Number 2828
Impact Factor: 3.576 | **Quartile:** 2 | **Citations:** 16
DOI: <https://doi.org/10.3390/s20102828>
- Simple and effective deep hand shape and pose regression from a single depth image** 2019
Muhammad Jameel Nawaz Malik Ahmed Elhayek Fabrizio Nunnari Didier Stricker
Computers & Graphics , Volume 85, Pages 85-91
Impact Factor: 1.351 | **Quartile:** 3 | **Citations:** 20
DOI: <https://doi.org/10.1016/j.cag.2019.10.002>
- Structure from Articulated Motion: Accurate and Stable Monocular 3D Reconstruction without Training Data** 2019
Onorina Kovalenko Vladislav Golyanik Muhammad Jameel Nawaz Malik Ahmed Elhayek Didier Stricker
Sensors , Vol.19(20), Article Number 4603
Impact Factor: 3.275 | **Quartile:** 1 | **Citations:** 11
DOI: <https://doi.org/10.3390/s19204603>
- WHSP-Net: A Weakly-Supervised Approach for 3D Hand Shape and Pose Recovery from a Single Depth Image** 2019
Muhammad Jameel Nawaz Malik Ahmed Elhayek Didier Stricker
Sensors , Volume: 19, Issue: 17, Article No.3784
Impact Factor: 3.275 | **Quartile:** 1 | **Citations:** 20
DOI: DOI:10.3390/s19173784
- 3DAirSig: A Framework for Enabling In-Air Signatures Using a Multi-Modal Depth Sensor** 2018
Faisal Shafait Muhammad Jameel Nawaz Malik Ahmed Elhayek Sheraz Ahmed Muhammad Imran Malik Didier Stricker
Sensors , Volume: 18, Issue: 11, Article Number: 3872
Impact Factor: 3.031 | **Quartile:** 1 | **Citations:** 27
DOI: 10.3390/s18113872
- Revisiting Central Limit Theorem: Accurate Gaussian Random Number Generation in VLSI** 2015
Jamshaid Sarwar Malik Ahmed Hemani Muhammad Jameel Nawaz Malik Ben Silmane Nasirud Din Gohar
IEEE Transactions on Very Large Scale Integration (VLSI) Systems , Volume 23, Issue 5, Pages 842-855
Impact Factor: 1.245 | **Quartile:** 3 | **Citations:** 12
DOI: 10.1109/TVLSI.2014.2322573

SurgeonNet: Realtime 3D Pose Estimation of Articulated Surgical Instruments from Stereo Images using a Synthetically-trained Network <i>Ahmed Tawfik Aboukhadra Nadia Robertini Muhammad Jameel Nawaz Malik Ahmed Elhayek Gerd Reis Didier Stricker</i> <i>DAGM GPCR German Conference on Pattern Recognition, res.country(57,)</i> Citations: N/A DOI: https://doi.org/10.1007/978-3-031-85181-0_13	2024
SynthSL: Expressive Humans for Sign Language Image Synthesis <i>Jilliam M. Diaz Barros Chen-Yu Wang Muhammad Jameel Nawaz Malik Abdalla Arafa Didier Stricker</i> <i>2024 18th International Conference on Automatic Face and Gesture Recognition (FG), res.country(224,)</i> Citations: N/A DOI: Nil	2024
THOR-Net: End-to-end Graformer-based Realistic Two Hands and Object Reconstruction with Self-supervision <i>Muhammad Jameel Nawaz Malik Ahmed Tawfiq Ahmed Elhayek Nadia Robertini Didier Stricker</i> <i>IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), res.country(233,)</i> Citations: N/A DOI: 10.48550/arXiv.2210.13853	2023
HandVoxNet: Deep Voxel-Based Network for 3D Hand Shape and Pose Estimation from a Single Depth Map <i>Dr. Jameel Malik Ibrahim Abdelaziz Dr. Ahmed Elhayek Soshi Shimada Sk Aziz Ali Vladislav Christian Theobalt Dr. Didier Stricker</i> <i>IEEE/CVF Conference on Computer Vision and Pattern Recognition, res.country(233,)</i> Citations: N/A DOI: Link provided	2021
Fully Automatic Multi-person Human Motion Capture for VR Applications <i>Dr. Ahmed Elhayek Onorina Pramod Dr. Jameel Malik Dr. Didier Stricker</i> <i>International Conference on Virtual Reality and Augmented Reality, res.country(231,)</i> Citations: N/A DOI: Link provided	2018
Structure-Aware 3D Hand Pose Regression from a Single Depth Image <i>Dr. Jameel Malik Dr. Ahmed Elhayek Dr. Didier Stricker</i> <i>15th International Conference on Virtual Reality and Augmented Reality, EuroVR 2018, res.country(231,)</i> Citations: N/A DOI: Link provided	2018
DeepHPS: End-to-end Estimation of 3D Hand Pose and Shape by Learning from Synthetic Depth <i>Dr. Jameel Malik Dr. Ahmed Elhayek fabrizio Nunnari Kiran Varanasi Kiarash Tamaddon Alex Heloir Dr. Didier Stricker</i> <i>2018 International Conference on 3D Vision (3DV), res.country(109,)</i> Citations: 64 DOI: 10.1109/3DV.2018.00023	2018
Simultaneous Hand Pose and Skeleton Bone-Lengths Estimation from a Single Depth Image <i>Dr. Jameel Malik Dr. Ahmed Elhayek Dr. Didier Stricker</i> <i>7th IEEE International Conference on 3D Vision, 3DV 2017, res.country(48,)</i> Citations: 14 DOI: 10.1109/3DV.2017.00069	2017
An efficient hardware implementation of high quality AWGN generator using Box-Muller method <i>Jamshaid Sarwar Dr. Jameel Malik Ahmed Hemani Nasir-ud-Din Gohar</i> <i>11th International Symposium on Communications & Information Technologies (ISCIT), res.country(48,)</i> Citations: 15 DOI: 10.1109/ISCIT.2011.6090035	2011
Generating high tail accuracy Gaussian Random Numbers in hardware using central limit theorem <i>Jamshaid Sarwar Dr. Jameel Malik Ahmed Hemani Nasir-ud-Din Gohar</i> <i>2011 IEEE/IFIP 19th International Conference on VLSI and System-on-Chip, res.country(48,)</i> Citations: 13 DOI: 10.1109/VLSISoC.2011.6081630	2011