CURRICULUM VITAE

MANSOOR

Mansoor Ali Teevno
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Terra Vista Residencial, Nuevo Mexico, Zapopan, CP 45200, Jalisco, Mexico

EDUCATION

August 2021- July 2025	**Doctor of Philosophy (PhD) Computer Science** Tecnologico de Monterrey, Mexico
August 2023- December 2023	**Visiting Postgraduate Researcher, University of Leeds, UK**
January 2014 – December 2016	**Master of Engineering (ME) Electronic System Engineering** *(CGPA 3.67)* Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan Thesis Title: **"Design and Implementation of Hand Gestures' Recognition system on FPGA"**
January 2008 – December 2011	**Bachelor of Engineering (B.Engg.) in Electronic Engineering** *with Distinction (84.04%) (CGPA 3.85)* Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan

WORK & EXPERIENCE

February 2022- Present	**Teaching Assistant** Tecnologico de Monterrey, Mexico
August 2013 – August 2020	**Lecturer** Department of Electronics Engineering, Mehran University of Engineering and Technology, Jamshoro, Pakistan.
June 2009 – July. 2009	**Intern** Department of Electronic Engineering, Mehran University of Engineering and Technology, Jamshoro, Pakistan.

RESEARCH INTERESTS

My current research interests touch the following themes: Machine Learning/Deep Learning, Computer Vision, Surgical AI, Image-guided surgery.

PUBLICATIONS

Journal

1. Sadam Hussain, **Mansoor Ali**, Usman Naseem, Fahimeh Nezhadmoghadam, Munsif Ali Jatoi, T. Aaron Gulliver, Jose Gerardo Tamez-Pena, “Breast cancer risk prediction using machine learning: a systematic review”, Frontiers in Oncology, 2024. (**IF=3.5**)
2. Sadam Hussain, Yareth Lafaraga-Osuna, **Mansoor Ali**, Usman Naseem, Masroor Ahmed, and Jose Gerardo Tamez-Pena, “Deep learning, radiomics and radiogenomics applications in the digital breast tomosynthesis: a systematic review ”, BMC Bioinformatics, 2023. (**IF=3.0**)
3. **Mansoor Ali Teevno**, Gilberto Ochoa-Ruiz, Sharib Ali, “A semi-supervised Teacher-Student framework for surgical tool detection and localization”, Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization 2022. (**IF=1.6**)
4. Nawaz Mehmood, **TEEVNO Mansoor Ali**, Qureshi Rizwan, Shahid Ali Raza, “Object Detection and Segmentation by composition of Fast Fuzzy C-Means Clustering based Maps”, Journal of Ambient Intelligence and Humanized Computing, 2022.
5. Metlo, S., Memon, M. G., Shaikh, F. K., **Teevno, M. A**., & Talpur, A. (2019). Crowdsource Based Vehicle Tracking System. *Wireless Personal Communications*, *106*(4), 2387-2405 **(IF=0.929)**
6. Channa, A., Shah, S. M. A., Patoli, A. A., Memon, A. R., & **Teevno, M. A**. (2016). A Hierarchical Approach to Home Energy Management Systems. *Indian Journal of Science and Technology*, *9*, 47.
7. Mahoto, N. A., Memon, A., & **TEEVNO, M**. (2016). Extraction of Web Navigation Patterns by means of Sequential Pattern Mining. *Sindh University Research Journal-SURJ (Science Series)*, *48*(1).

Conference Proceedings

1. Rafael Martinez Garcia Pena**, Mansoor Ali Teevno**, Gilberto Ochoa-Ruiz, Sharib Ali, “SUPRA: Superpixel Guided Loss for Improved Multi-modal Segmentation in Endoscopy” [Accepted at LatinX in CV workshop at CVPR 2023].
2. Pedro E. Chavarrias-Solano, **Mansoor A. Teevno**, Gilberto Ochoa-Ruiz, Sharib Ali, "Knowledge Distillation with a Class-Aware Loss for Endoscopic Disease Detection" MICCAI Workshop on Cancer Prevention through Early Detection, at MICCAI 2022, LCNS.
3. Pedro E. Chavarrias-Solano, **Mansoor A. Teevno**, Gilberto Ochoa-Ruiz, Sharib Ali, " Improving Artifact Detection in Endoscopic Video Frames Using Deep Learning Techniques” Mexican International Conference on Artificial Intelligence, LNAI 2022.
4. Sadaf Khan, Wahab Haseeb Bhatti, Fawad Chaudhary, Arsalan Shafique, Muhammad Irfan, **Mansoor A. Teevno**, Rizwan Qureshi, "A Deep Learning Framework for the Classification of ECG Signals” 2022 International Conference on Engineering and Emerging Technologies (ICEET).
5. **Teevno, Mansoor Ali**, et al. "Area-performance-power analysis of hand gesture recognition system in FPGA." *2018 International Conference on Computing, Mathematics and Engineering Technologies (iCoMET)*. IEEE, 2018.

TEACHING ACTIVITIES
August 2013- August 2020

During my role as a Lecturer, I was involved in teaching several courses such as,

- Computer Programming
- Python Programming
- Neural Networks and Fuzzy Logic
- Machine Learning
- Digital Electronics
- Microprocessor and Microcontroller Systems
- Instrumentation Systems

AWARDS & ACHIEVEMENTS

August 2021 - July 2025	Mexican Government (CONAHCYT) Scholarship
March 2023 – March 2024	Research and Development Fund by WUN
October 2024	MICCAI'22 Conference Registration/Travel Grant
June 2024	MICCAI'24 Conference Travel Grant

PROFESSIONAL ACTIVITIES & MEMBERSHIPS

September 2022 to present	MICCAI student member
January 2021 to Present	IEEE Student Member
April 2013-present	Pakistan Engineering Council

UNDERGRADUATE PROJECTS SUPERVISED

- FPGA Based Real time Implementation of Intelligent Authorization system Based on Face Recognition
- FPGA Implementation of the Gaussian Mixture Model Algorithm for Real-time Segmentation of High Definition video
- PLC based Production Monitoring & Optimized Efficiency System
- Dynamic Signaling & Effective use of railway Infrastructure

REFERENCES

Dr. Gilberto Ochoa-Ruiz
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Dr. Tayab Din Memon
Associate Professor, Department of Electronic Engineering Mehran UET, Pakistan
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Dr. Sharib Ali
Assistant Professor, Department of Computer Science, University of Leeds, Leeds, UK
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