

**Dr. Ali Javed**  
*Associate Professor*  
Department of Software Engineering  
University of Engineering and Technology, Taxila

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- Google Scholar: <http://scholar.google.com.pk/citations?user=057gJdYAAAAJ>
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- IEEE No: 93934004
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## EDUCATION

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- PhD in Computer Engineering, Computer Engineering Department, 2016  
**Thesis Title:** Event Driven Video Summarization for Sports  
**University of Engineering & Technology Taxila, Pakistan**  
6 months research work during **PhD** under **IRSIP HEC Scholarship at University of Michigan, USA**
- M.S in Computer Engineering, Computer Engineering Department, 2010 (**Gold Medalist**)  
**Thesis Title:** Video Analytic Algorithm for Handout Extraction from Video Lectures  
**University of Engineering & Technology Taxila, Pakistan**
- B.E in Software Engineering, Software Engineering Department, 2007 (**3<sup>rd</sup> Position**)  
**Thesis Title:** Fingerprint Biometric based Time and Attendance System  
**University of Engineering & Technology Taxila, Pakistan**

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## PERSONAL DESCRIPTION

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- I have done my Postdoc from Oakland University, USA. I have completed my PhD degree in Computer Engineering from UET Taxila, Pakistan and University of Michigan, USA. I have done my MS degree in Computer Engineering and BE degree in Software Engineering from UET TAXILA, Pakistan. I have teaching experience of more than 16 years and have a sound knowledge and skills and above all the zest. I have a tremendous academic record to back me up. I think being a dynamic and energetic person I can provide my employer's organization with a very proficient and hardworking employee who has a great learning ability as depicted by his excellent academic carrier. I assure my employer as well that I, being a zealous supporter of the cause of the organization, can work anytime on any assignment with utmost courage, devotion, honesty and with 100% of my technical ability and with one goal of taking my organization to the zenith of success.

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## OBJECTIVE

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- Boldness and vision to initiate new ideas and implement innovative approaches through strategic direction to facilitate student learning and research.

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## AWARDS AND HONORS

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- Recognition in the **Top 2% Leading Scientists** list compiled by **Stanford University** for two consecutive years, **2024 and 2025**.
- Awarded **Chancellors Gold Medal** for securing **4.0 CGPA** in **M.S Computer Engineering**
- Awarded **Certificate of Excellence** for securing **4.0 CGPA** in **MS Computer Engineering**.
- Awarded **Certificate of Merit** for securing **3<sup>rd</sup> position** overall in **BE Software Engineering**.
- **A+ grade** in **BE Software Engineering** with an Aggregate of **90%**.
- Acting **Head of Software Engineering Department** at **UET Taxila**.
- **Ambassador of Asian Council of Science Editors (ACSE)** from Pakistan.
- Secured **First Position** with **96.4%** marks among 500 participants in **HEC Online Teaching Level-1 course** organized by **National Academy of Higher Education**.
- Secured **Second Position** for supervised FYP titled "**Realtime Replayed Audio Detection Voicebot**" in Final Year Design Project competition organized by Institution of Engineers Pakistan.

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## RESEARCH INTERESTS

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- Video Content Analysis
- Image Processing
- Multimedia Forensics
- Artificial Intelligence
- Computer Vision
- Machine Learning
- Software Quality Assurance & Testing

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## APPOINTMENTS

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■ <b>Associate Professor</b>	<b>Jan, 2022-Present</b>
UET Taxila, Department of Software Engineering	<b>Taxila, Punjab</b>
■ <b>Visiting Academic (Associate Professor)</b>	<b>May, 2025-Aug, 2025</b>
University of Glasgow Scotland, James Watt School of Engineering	<b>Glasgow, Scotland, UK</b>
■ <b>Technologist PGS Board</b>	<b>July, 2022- Present</b>
UET Taxila, Department of Software Engineering	<b>Taxila, Punjab</b>
■ <b>Associate Professor</b>	<b>Feb, 2021-Jan, 2022</b>
UET Taxila, Department of Computer Science	<b>Taxila, Punjab</b>
■ <b>Assistant Professor</b>	<b>Mar, 2012- Feb, 2021</b>
UET Taxila, Department of Software Engineering	<b>Taxila, Punjab</b>
■ <b>Postdoctoral Scholar</b>	<b>Mar, 2019- Sep, 2019</b>
Oakland University, Computer Science and Engineering Department	<b>Rochester, Michigan</b>
■ <b>PhD Visiting Research Scholar</b>	<b>Apr, 2015-Nov, 2015</b>
UM Dearborn, Electrical and Computer Engineering Department	<b>Dearborn, Michigan</b>
■ <b>Acting Chairman</b>	<b>July, 2014</b>
UET Taxila, Department of Software Engineering	<b>Taxila, Punjab</b>
■ <b>Director- Postgraduate Studies</b>	<b>Sep 2020-Feb 2021</b>
UET Taxila, Department of Software Engineering	<b>Taxila, Punjab</b>
■ <b>Member- Central Purchase Committee</b>	<b>Jan 2023-Present</b>
UET Taxila,	<b>Taxila, Punjab</b>
■ <b>Advisor Softdesk Society</b>	<b>2012-Present</b>
UET Taxila, Department of Software Engineering	<b>Taxila, Punjab</b>
■ <b>Director- Multimedia Signal Processing (MSP) Research Lab</b>	<b>2016-Present</b>
UET Taxila, Department of Software Engineering	<b>Taxila, Punjab</b>
■ <b>Head of Windows Mobile Application Development</b>	<b>2014-2018</b>
UET Taxila, Mobile Application Development Wing	<b>Taxila, Punjab</b>
■ <b>Software Engineering Lab Director</b>	<b>2012-2015</b>
UET Taxila, Department of Software Engineering	<b>Taxila, Punjab</b>

■ <b>Research Monitoring Committee Member for MS Thesis</b> Military College of Signals-NUST, Department of Software Engineering	Mar, 2013- Mar, 2014 Rawalpindi, Punjab
■ <b>Assistant Professor Visiting</b> Fatima Jinnah Women University, Department of Software Engineering	Jan, 2013-Aug, 2013 Rawalpindi, Punjab
■ <b>Lecturer</b> UET Taxila, Department of Software Engineering	Apr, 2008- Mar, 2012 Taxila, Punjab
■ <b>Lab Engineer</b> UET Taxila, Department of Software Engineering	Sep, 2007- Apr, 2008 Taxila, Punjab

## RESEARCH FUNDINGS, PATENTS & TRAVEL GRANTS

- US Patent titled "**DeepRawNet: Empowering Deepfake Audio Detection through Dynamic Enhancements**" filed in 2025.
- **NRPU Research Grant Awardee** as **Co-Principal Investigator** of PKR 11,902,000/- from HEC for Project titled "**DeepGuard Deepfake Audio exploitation Prevention and Guarding Against Real-time Deception**" 2025-2027.
- **PIRCA Research Grant Awardee** as **Principal Investigator** of PKR 45,00,000/- from Punjab HEC for Project titled "**A unified framework for benchmarking deepfakes detection algorithms**" 2021-2023.
- **EPSRC Research Grant Awardee** as **Co-PI (Researcher)** of GBP 200,000/- for project titled **Mitigating presentation attacks in remote identity spoofing (MIMER): Pakistan in Focus**, 2024-2026.
- Worked as a Visiting Academic from May-Aug 2025 in **University of Glasgow** for project titled **Mitigating presentation attacks in remote identity spoofing (MIMER): Pakistan in Focus, UK**.
- Working as an International Collaborator for project titled **AI in Cybersecurity: Audio antispoofting system for biometrics-based user authentication** that has been awarded the research grant by the **Deanship of Scientific Research (DSR), University of Tabuk, Saudi Arabia**, 2023-2024.
- Working as an International Collaborator for project titled **Image-based Agricultural Diseases Recognition System Using Deep Learning** that has been awarded the research grant No. **ISP23-116** by the **Deputyship for Research & Innovation, Ministry of Education in Saudi Arabia** to **Jazan University, Saudi Arabia**, 2023-2024.
- Working as an International Collaborator for project titled **Retinal Image Analysis using Deep Learning for Diagnosing Diabetes-based Eye Abnormalities** that has been awarded the research grant No. **ISP23-78** by the **Deputyship for Research & Innovation, Ministry of Education in Saudi Arabia** to **Jazan University, Saudi Arabia**, 2023-2024.
- Worked as a Postdoctoral Scholar for **Forensic Examiner: Testbed for Benchmarking Digital Audio Forensic Algorithms Project** funded by the **National Science Foundation (NSF)-USA** (Award No. **1815724**).
- Worked as a Postdoctoral Scholar for **Clinical Decision Support System Tool for Brain Aneurysm Detection and Rupture Prediction Project** funded by the **Brain Aneurysm Foundation-USA**.
- Worked as a Postdoctoral Scholar for **Usage of Modern Technologies to predict emergence of infectious diseases and to detect outbreak of pandemics** funded by the **Ministry of Education-KSA, and Imam Mohammad Ibn Saud Islamic University-KSA** (Award No. **959**).
- Team Lead for NSF funded project **REU Site: Undergraduate Computer Research (UnCoRe) in Cyber Security** (Award No. **1852475**).
- Worked as an International Collaborator for project titled **An Excitement Detection Framework for Automatic Highlights Generation of Sports Videos** that has been awarded the research grant by the **Deanship of Scientific Research (DSR), University of Jeddah, Jeddah**, under research grant No. **(UJ-22-DR-14)**, 2022-2023.
- Worked as an International Collaborator for project titled **An effective deep learning model for the agricultural plant leaf diseases detection and classification** that has been awarded by the **Deputyship for Research & Innovation, Ministry of Education in Saudi Arabia**, to **Jazan University, KSA**, under research grant No. **(RUP3-1)**, 2022-2023.
- Worked as a Co-Investigator/International Collaborator for project titled **Drone for Crop's Pest Detection and Removal using Deep Learning techniques** that has been awarded the research grant

by the **Deanship of Scientific Research (DSR)**, Qassim University, Saudi Arabia, under **research grant No. (10338-COC-3-1-2020-I)**, 2021-2022.

- Worked as an International Collaborator for project titled **Shot Classification and Replay Detection for Sports Video Summarization** that has been awarded the research grant by the **Deanship of Scientific Research (DSR)**, **University of Jeddah, Jeddah**, under **research grant No. (UJ-04-18-ICP)**, 2020-2021.
- Worked as an International Collaborator for project titled **Audio features-based Fall Detection Framework for Elderly people and Patients** that has been awarded the research grant by the **Deanship of Scientific Research (DSR)**, **University of Jeddah, Jeddah**, under **research grant No. (UJ-20-043-DR)**, 2020-2021.
- Worked as an International Collaborator for project titled **Protecting the World Leaders from Voice Spoofing Attacks** that has been awarded the research grant by the **Deanship of Scientific Research (DSR)**, **University of Jeddah, Jeddah**, under **research grant No. (UJ-21-DR-28)**, 2020-2021.
- Worked as an International Collaborator for project titled **Face Mask Detection and Masked Facial Recognition** that has been awarded the research grant by the **Taif University Researchers Supporting Project number (TURSP-2020/115)**, Taif University, Taif, Saudi Arabia, 2020-2021.
- Worked as an International Collaborator for project titled **A Multi-Layer Dual Attention Deep Learning Model with Refined Word Embeddings for Aspect-Based Sentiment Analysis** that has been awarded the research grant by the **Deanship of Scientific Research (DSR)**, **University of Jeddah, Jeddah**, under **research grant No. (UJ-12-18-DR)**, 2017-2018.
- **International Research Support Initiative Program (IRSIP) Scholarship Awardee of PKR One Million** from **Higher Education Commission Pakistan** to conduct PhD research as Visiting PhD Research Scholar at University of Michigan, USA.
- **Travel Grant Awardee PKR 2,51,326/-** from **Higher Education Commission Pakistan** to present research paper in **7<sup>th</sup> International Conference on Frontiers of Information Technology, 2018** at Paris, France.
- **Research Grant Awardee of PKR 1,50,000/-** from **NESCOM** for Project titled "**Face Recognition and Authentication System (FaRAS)**" 2017-2018
- **Travel Grant Awardee PKR 2,37,253/-** from **PUNJAB Higher Education Commission Pakistan** to present research paper in **IEEE International Conference on Consumer Electronics-Asia 2016** at Seoul, Republic of Korea.
- **Travel Grant Awardee of PKR 106,845/-** from **Higher Education Commission Pakistan** to present research paper in **International Conference on Software & Information Engineering 2012** at Phuket, Thailand.
- **Research Grant Awardee of PKR 76,500/-** from **National ICT R&D Fund** for Project titled "**Mobile Spy Agent**" 2012-2013.
- **Research Grant Awardee of PKR 66,250/-** from **National ICT R&D Fund** for Project titled "**An Automated Traffic Congestion and Evasion**" 2013-2014.
- **Research Grant Awardee of PKR 43,750/-** from **National ICT R&D Fund** for Project titled "**Mobi Blind Signaling**" 2013-2014.
- **Research Grant Awardee of PKR 90,000/-** from **UET Taxila** for Project titled "**Citizen Journalist**" 2014-2015.
- **Research Grant Awardee of PKR 56,250/-** from **National ICT R&D Fund** for Project titled "**Sign Language Translator and Web Platform**" 2014-2015.
- **Research Grant Awardee of PKR 1,25,000/-** from **UET Taxila** for Project titled "**Recommender System for Mobile based discounted shopping**" 2015-2016.
- **Research Grant Awardee of PKR 80,000/-** from **UET Taxila** for Project titled "**A Unified Agile Testing Framework for Mobile Applications**" 2015-2016.
- **Research Grant Awardee of PKR 2,90,000/-** from **Directorate ASR&TD UET Taxila** for Project titled "**An Automated Framework for Advertisement and Removal from Sports Videos using Audio-Visual Cues**" 2017-2018 (Award No. UET/ASR&TD/RG-1002-2)

- **Research Grant Awardee of PKR 2,20,000/-** from Directorate ASR&TD UET Taxila for Project titled "An Excitement Detection Framework for Automatic Highlights Generation of Sports Videos" 2017-2018 (Award No. UET/ASR&TD/RG-1002-3).
- **Research Grant Awardee of PKR 95,000/-** from Directorate ASR&TD UET Taxila for Project titled "An Effective Framework for Speech and Music Segregation" 2017-2018 (Award No. UET/ASR&TD/RG-1002-4).
- **Research Grant Awardee of PKR 1,90,000/-** from Directorate ASR&TD UET Taxila for Project titled "Egocentric Video Summarization for Alzheimer's Patients" 2017-2018 (Award No. UET/ASR&TD/RG-1002-5).
- **Research Grant Awardee of PKR 70,000/-** from Ignite Research Fund for Project titled "Bio Smart Secure" 2017-2018.
- **Research Grant Awardee of PKR 55,000/-** from Ignite Research Fund for Project titled "Smart Mirror" 2017-2018.
- **Research Grant Awardee of PKR 70,000/-** from Ignite Research Fund for Project titled "Gymfit-Workout Scheduling and Fitness Guidance Application" 2018-2019.
- **Research Grant Awardee of PKR 65,000/-** from Ignite Research Fund for Project titled "Commercial Insurance App using AI" 2018-2019.
- **Research Grant Awardee of PKR 69,820/-** from Ignite Research Fund for Project titled "Smart Shoe- An Obstacle Detection Framework using Wearable Sensors" 2018-2019.
- **Research Grant Awardee of PKR 80,000/-** from Ignite Research Fund for Project titled "Financial Analysis Software for Trading" 2019-2020.
- **Research Grant Awardee of PKR 25,275/-** from Ignite Research Fund for Project titled "Virtual Try-On" 2019-2020.
- **Research Grant Awardee of PKR 74,800/-** from Ignite Research Fund for Project titled "RadBot- Realtime Replayed Audio Detection VoiceBot" 2021-2022.
- **Research Grant Awardee of PKR 84,000/-** from Ignite Research Fund for Project titled "SightSync" 2023-2024.
- **Research Grant Awardee of PKR 84,700/-** from Ignite Research Fund for Project titled "Pixelizedpng smart photo distribution for events" 2023-2024.
- **Research Grant Awardee of PKR 84,220/-** from Ignite Research Fund for Project titled "Clone My Voice" 2023-2024.

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## RESEARCH COLLABORATIONS

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- **Dr. Bruce R. Maxim (Professor, CIS Department, University of Michigan-Dearborn, USA)**  
**Projects:**  
A Unified Agile Testing Framework for Mobile Applications.
- **Dr. Hafiz Malik (Professor, ECE Department, University of Michigan-Dearborn, USA)**  
**Projects:**  
Video Summarization  
Multimedia Forensics
- **Dr. Muhammad Tariq Mahmood (Associate Professor, School of Computer Science and Engineering, Korea University of Technology and Education, Republic of Korea)**  
**Projects:**  
Video Summarization  
Content-based Image Retrieval  
Human Activity Recognition
- **Dr. Khalid Mahmood Malik (Professor of Computer Science & Director of Cybersecurity, University of Michigan-Flint, USA)**  
**Projects:**  
Forensics Examiner  
Clinical Decision Support System for Aneurysm Detection and Rupture Prediction

- **Dr. Ahmed Zoha (Associate Professor, James Watt School of Engineering, University of Glasgow, UK)**  
**Project:**  
 MIMER: Mitigating Presentation Attacks Detection in Remote Identity Proofing: Pakistan in Focus
- **Dr. Abdul Khader Saudagar Jilani (Professor, College of Computer and Information Sciences, Imam Mohammad Ibn Saud Islamic University(IMSIU), KSA)**  
**Projects:**  
 Medical Image Segmentation and Classification  
 Audio Spoofing Detection  
 Infectious Disease Detection and Mitigation  
 Human Activity Recognition
- **Dr. Waleed Albattah (Associate Professor, Department of Information Technology, Qassim University, KSA)**  
**Project:**  
 Drone for Crop's Pest Detection and Removal using Deep Learning techniques
- **Dr. Ameen Banjer (Associate Professor, College of Computer Science and Engineering, University of Jeddah, KSA)**  
**Project:**  
 Aspect-Based Sentiment Analysis
- **Dr. Saleh Mohammad (Associate Professor, Department of Information Technology, Qassim University, KSA)**  
**Projects:**  
 Recognition and Detection of Diabetic Retinopathy  
 Handwritten character recognition

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## TEACHING EXPERIENCE & SUPERVISION

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- **Faculty at UET Taxila** Sep, 2007-Present  
Taxila, Punjab  
 Undergrad and Postgrad Software Engineering Courses
- **Visiting Faculty at Fatima Jinnah Women University** Jan, 2013-Aug, 2013  
Rawalpindi, Punjab  
 Final Year Project Supervision at Undergrad level
- **Research Monitoring Committee Member at MCS, NUST** Mar, 2013- Mar, 2014  
Rawalpindi, Punjab  
 MS Thesis at Postgraduate level
- **Research Monitoring Committee Member at UET Taxila** Mar, 2017- Present  
Taxila, Punjab  
 RMC member of multiple PhD Students

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## TEACHING

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- **Postgraduate Courses**
  1. Advanced Machine Learning
  2. Digital Forensics
  3. Image and Video Processing
  4. Digital Image Processing
  5. Software Verification & Validation
  6. Software Quality Assurance & Process Improvement
  7. Software System Quality
  8. Mobile Application Development
- **Undergraduate Courses**
  1. Digital Image Processing
  2. Software Quality Assurance
  3. Software Testing
  4. Software Quality Assurance & Management

5. Software Quality Engineering
6. Software Requirements Engineering
7. Software Project Management
8. Software Design and Architecture
9. Advanced Software Technologies
10. Introduction to Software Engineering
11. Computer Graphics & Image Processing
12. Software Engineering-I
13. Machine Learning

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### PROFESSIONAL MEMBERSHIPS

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- Member Pakistan Engineering Council- Professional Engineer
- Senior Member Institute of Electrical and Electronics Engineering (SMIEEE)
- Member Association for Computer Machinery (ACM)
- Member Pakistan Student Association (PSA) University of Michigan-Dearborn, USA, 2015
- Member Muslims Student Association (MSA) University of Michigan-Dearborn, USA, 2015
- Lifetime Member of Asian Council of Science Editors (ACSE)
- Executive Member- Teaching Staff Association (TSA) UET Taxila, 2013-2014

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### PROFESSIONAL ACTIVITIES

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**Member HEC Accreditation/Inspection Committee since Sep 2021**

**Member Board of Faculty (FT&IE), UET Taxila**

**Member Board of Undergraduate Studies, SED, UET Taxila**

**Member Board of Undergraduate Studies, EED, University of Wah**

**Member Board of Undergraduate Studies, SED and EED, Federal Urdu University of Arts, Science and Technology Member Board of Undergraduate Studies, SED, Balochistan University of Information Technology, Engineering and Management Sciences**

**Member Industry Advisory Board (IAB) for Software Engineering Department, UET Taxila**

**Member Industry Advisory Board (IAB) for Computer Science Department, COMSATS, Wah.**

**Technical Program Committee Membership**

- International Conference on Frontiers of Information Technology (FIT) **2016, 2017, 2022**
- International Conference on Software Engineering and Applications (SEA) **2015**
- IEEE EMBS International Conference on Biomedical and Health Informatics (BHI) **2021, 2022**

**Technical Reviewer (Selected Nominations)**

- IEEE Transactions on Circuits Systems and Video Technology
- IEEE Transactions on Audio Speech and Language Processing
- IEEE Transactions on Artificial Intelligence
- International Journal of Computer Vision
- IEEE Signal Processing Letters
- International Journal of Experimental and Theoretical Artificial Intelligence
- International Journal of Medical Imaging and Health Informatics
- Journal of Ambient Intelligence and Humanized Computing
- Microscopy Research and Technique
- Informatics in Medicine Unlocked
- IEEE Access
- Multimedia Systems
- Mobile Information Systems

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### INVITED TALKS

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**Mitigating presentation attacks in remote identity proofing (MIMER): Pakistan in Focus**

- Invited Talk at 4th International Conference “Revamped Scientific Outlook of 21st Century” in Rawalpindi Women's University.

**From Disinformation to Identity Deception: Combating Deepfakes and Presentation Attacks in Remote Identity Proofing**

- Invited Talk at University of East London, July 2025

**From Disinformation to Identity Deception: Combating Deepfakes and Presentation Attacks in Remote Identity Proofing**

- Invited Talk at Birmingham City University, July 2025

**Speech Deepfakes Detection**

- CPD Activity at NUML Rawalpindi, May 2023

**Workshop on Multimedia Forensics**

- 20<sup>th</sup> IBCAST, 2023, Bhurban, Murree

**Multimedia Forensics Analyzer- AI tool to combat disinformation in Cyberspace**

- 20<sup>th</sup> IBCAST, 2023, Bhurban, Murree

**Workshop on Speech Deepfakes Detection**

- CPD Activity at UET Taxila, Nov 2023

**Is seeing still believing? Deepfakes, a tool for disinformation**

- 19<sup>th</sup> International Conference on Frontiers of Information Technology, Comptech, Islamabad, 12-13 Dec, 2022.

**Deepfakes: state-of-the-art open challenges, countermeasures, and a way forward**

- 16<sup>th</sup> International Conference on Open-Source Systems and Technologies, UET Lahore, 14-15 Dec, 2022.

**Workshop on Digital Image Processing**

- Women in IEEE Engineering AG of IEEE SB UET Taxila at EED UET Taxila, Nov 2015

**PUBLICATIONS**

**Research Statistics**

- Cumulative Impact Factor- 324.096
- Citations – 5317
- I10-Index - 80
- H-Index - 39
- Reference - <http://scholar.google.com.pk/citations?user=057gJdYAAAAJ>

**Selected Journal Publications**

1. Qurat-ul-Ain, Fatima Khalid, Hafsa Ilyas, **Ali Javed**, et al. “Adversarial and Generative AI-Based Anti-Forensics in Audio-Visual Deepfake Detection: A Comprehensive Review and Analysis, Engineering Applications of Artificial Intelligence, Jan 2026. (SCI, IF: 15.5)
2. Marriam Nawaz, **Ali Javed**, and Abdul Khader Sauagar Jilani. “Residual-SwishNet: A Deep Learning-Based Approach for Reliable Lung Cancer Classification”, Frontiers in Oncology, Jan 2026. (SCI, IF: 3.3)
3. Hamed Al-Tairi, **Ali Javed**, Tasawer Khan and Abdul Khader Sauagar Jilani. “DeepLASD countermeasure for logical access audio spoofing”, Scientific Reports, 15(1), p.20839, 2025. (SCI, IF: 3.8)
4. Sifat Ullah, **Ali Javed**, Muteb Aljasem, Abdul Khader Sauagar Jilani. “Eff-ReLU-Net: A Deep Learning Framework for Multiclass Wound Classification”, BMC-Medical Imaging, 2025 Jul 1;25(1):257. (SCI, IF: 2.9)
5. Hussain Dawood, Marriam Nawaz, Tahira Nazir, **Ali Javed**, and Abdul Khader Sauagar Jilani. “ARNet: Integrating Spatial and Temporal Deep Learning for Robust Action Recognition in Videos”, CMES-Computer Modeling in Engineering & Sciences, 2025; 144(1). (SCI, IF: 2.2)
6. Qurat-ul-Ain, **Ali Javed**, and Aun Irtaza. “DeepEvader: An evasion tool for exposing the vulnerability of deepfake detectors using transferable facial distraction blackbox attack”, Engineering Applications of Artificial Intelligence, 2025; 145:110276. (SCI, IF: 7.5)
7. Ameen Banjar, **Ali Javed**, Mariam Nawaz, Hussain Dawood, E-AppleNet: An enhanced deep learning approach for apple fruit leaf diseases classification, Applied Fruit Science, 2025; 67(1):18.

8. Hussain Dawood, Mariam Nawaz, Muhammad Ilyas, Tahira Nazir, **Ali Javed**, Attention-Guided CenterNet Deep Learning Approach for Lung Cancer Detection, Computers in Biology and Medicine, 2025; 186:109613. (SCI, IF: 7.0)
9. Qurat Ul Ain, **Ali Javed**, Khalid Malik, Aun Irtaza, "Regularized Forensic Efficient Net: A game theory based generalized approach for video deepfakes detection ", Multimedia Tools and Applications, 2024;15:1-44.
10. Mariam Nawaz, **Ali Javed**, Aun Irtaza, A deep learning model for FaceSwap and Face-Reenactment Deepfakes Detection, Applied Soft Computing, 2024; 162:111854. (SCI, IF: 8.263)
11. Fatima Khalid, Ali Javed, Khalid Mahmood Malik, Aun Irtaza, "ExplaNET: A Descriptive Framework for Detecting Deepfakes With Interpretable Prototypes," IEEE Transactions on Biometrics Behavior and Identity Science, 2024; 6(4):486-97.
12. Fathe Jeribi, Tahira Nazir, Marriam Nawaz, Ali Javed, Mohammed Alhameed, Ali Tahir. "Recognition of diabetic retinopathy and macular edema using deep learning", Medical & Biological Engineering & Computing, 2024; 62(9):2687-701. (SCI, IF: 3.2)
13. Rabbia Mahum, Aun Irtaza, Ali Javed, Haitham A. Mahmoud and Haseeb Hassan. "DeepDet: YAMNet with BottleNeck Attention Module (BAM) TTS synthesis detection", EURASIP Journal on Audio, Speech, and Music Processing, 2024(1):18. (SCI, IF: 2.4)
14. Ameen Banjar, Hussain Dawood, Ali Javed, Bushra Zeb. "Sports Video Summarization using Acoustic Symmetric Ternary Codes and SVM", Applied Acoustics, 2024; 216:109795. (SCI, IF: 3.4)
15. Rabbia Mahum, Aun Irtaza, Ali Javed. "EDL-Det: A Robust TTS Synthesis Detector Using VGG19-Based YAMNet and Ensemble Learning Block", IEEE Access, 2023;11:134701-16. (SCI, IF: 3.55)
16. Tanees Riaz, **Ali Javed**, et al. "Shuffle SwishNet-181: COVID-19 Diagnostic Framework using ECG Images", Multimedia Tools and Applications, 2024; 83(16):49321-41. (SCI, IF: 3.6).
17. Noor Ul Huda, **Ali Javed**, et al. "Fake-Checker: A Fusion of Texture features and Deep Learning for Deepfakes Detection", Multimedia Tools and Applications, 2024; 83(16):49013-37. (SCI, IF: 3.6).
18. Naeem Ullah, **Ali Javed**, Ali Alhazmi, Syed M. Hasnain, Ali Tahir, Rehan Ashraf, "TumorDetNet: A unified deep learning model for brain tumor detection and classification", PLOS ONE, 2023;18(9):e0291200. (SCI, IF: 3.7)
19. Marriam Nawaz, Tahira Nazir, **Ali Javed**, Sherif Tawfik Amin, Fathe Jeribi, Ali Tahir, "CoffeeNet: A deep learning approach for coffee plant leaves diseases recognition", Expert Systems with Applications, 2024; 237:121481. (SCI, IF: 8.665)
20. Marriam Nawaz, **Ali Javed**, Aun Irtaza, "Convolutional long short-term memory-based approach for deepfakes detection from videos", Multimedia Tools and Applications, 2024; 83(6):16977-7000. (SCI, IF: 3.6)
21. Iram Abdullah, **Ali Javed**, Khalid Mahmood Malik, Ghaus Malik, "DeepInfusion: A Dynamic Infusion based-Neuro-Symbolic AI Model for Segmentation of Intracranial Aneurysms", Neurocomputing, 2023; 551:126510. (SCI, IF: 5.779)
22. Yahya Alqahtani, Marriam Nawaz, Tahira Nazir, **Ali Javed**, et al., "An improved deep learning approach for localization and Recognition of plant leaf diseases.", Expert Systems with Applications, Vol 230, 120717, 2023 (SCI, IF: 8.665)
23. Hafsa Ilyas, **Ali Javed**, Khalid Malik, Aun Irtaza, E-Cap Net: An Efficient-Capsule Network for Shallow and Deepfakes Forgery Detection, Multimedia Systems, 2023; 29(4):2165-80. (SCI, IF: 2.603)
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30. Marriam Nawaz, Tahira Nazir, Ali Javed, et al. "Efficient-ECGNet Framework for COVID-19 Classification and Correlation Prediction with the Cardio Disease through ECG Medical Imaging", *Frontiers in Medicine*, 2022; 9:1005920. (**SCI, IF: 5.058**)
31. Marriam Nawaz, Tahira Nazir, **Ali Javed**, Momina Masood, et al., "A Robust Deep Learning Approach for Tomato Plant Leaf Disease Localization and Classification", *Scientific Reports*, 12(1), 1-18, 2022. (**SCI, IF: 4.996**)
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33. Tarim Dar, **Ali Javed** et al., "Efficient-SwishNet based System for Facial Emotion Recognition", *IEEE Access*, 2022; 10:71311-28. (**SCI, IF: 3.476**)
34. Umer Ali Khan, **Ali Javed**, "A Hybrid CBIR System using Novel Local Tetra Angle Patterns and Color Moment Features", *Journal of King Saud University: Computer and Information Sciences*, 2022; 34(10):7856-73. (**SCI, IF: 8.839**)
35. Momina Masood, Marriam Nawaz, Khalid Mahmood Malik, **Ali Javed**, Aun Irtaza, Hafiz Malik, "Deepfakes Generation and Detection: State-of-the-art, open challenges, countermeasures, and way forward", *Applied Intelligence*, 2023; 53(4):3974-4026. (**SCI, IF: 5.019**)
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38. Farman Hassan, Saleh Albahli, **Ali Javed**, Aun Irtaza "A Robust Framework for Epidemic Analysis, Prediction and detection of COVID-19", *Frontiers in Public Health*, 2022, 6:10:805086. (**SCI, IF: 6.461**)
39. Ameen Banjar, Hussain Dawood, **Ali Javed**, Farman Hassan, "Fall event detection using the mean absolute deviated local ternary patterns and BiLSTM", *Applied Acoustics Journal*, Volume 192, 2022, 108725, (**SCI, IF: 3.614**)
40. **Ali Javed**, Khalid Mahmood Malik, Hafiz Malik, Aun Irtaza, "Voice Spoofing Detector: A Unified Antispoofing Framework", *Expert Systems with Applications*, Vol 198, 2022 (**SCI, IF: 8.665**)
41. Awais Khan, **Ali Javed**, Khalid Mahmood Malik, et al., "Towards Realigning Automatic Speaker Verification in the Era of COVID-19", *Sensors*, 22(7), 2638 (**SCI, IF: 3.847**)
42. Hussain Dawood, Sajid Saleem, Farman Hassan, **Ali Javed**, "A Robust Voice Spoofing Detection System using Novel CLS-LBP Features and LSTM", *Journal of King Saud University: Computer and Information Sciences*, 2022; 34(9):7300-12. (**SCI, IF: 8.839**)
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44. Saleh Albahli, Farman Hassan, Ali Javed, Aun Irtaza "Pandemic Analysis and Prediction of COVID-19 Using Gaussian Doubling Times", *Computers Materials & Continua*, Vol 72, No 1, 2022 (**SCI, IF: 3.860**)
45. Rubab Mehboob, **Ali Javed**, Hassan Dawood, Hussain Dawood, "Histogram of Low-level Visual Features for Salient Feature Extraction", *Arabian Journal for Science and Engineering*, 2022; 47(8):10589-604. (**SCI, IF: 2.807**)
46. NaeemUllah, **Ali Javed**, et al., "A Novel DeepMaskNet Model for Face Mask Detection and Masked Facial Recognition", *Journal of King Saud University: Computer and Information Sciences*, 2022, 30(10), (**SCI, IF: 8.839**)
47. Marriam Nawaz, Tahira Nazir, Ali Javed, et al., "An Efficient Deep learning approach to automatic Glaucoma detection using Optic Disc and Optic Cup localization", *Sensors*, 22, 434, 2022 (**SCI, IF: 3.847**)
48. Tuba Arif, **Ali Javed**, et al., "Voice Spoofing Countermeasure for Logical Access Attacks Detection", *IEEE Access*, Vol 9, 2021, pp. 162857 – 162868 (**SCI, IF: 3.476**)

49. Ayesha Khan, **Ali Javed**, Muhammad Tariq Mahmood, Muhammad Hamza, IK Hyun Lee, "Directional Magnitude Local Hexadecimal Patterns: A Novel Texture Feature Descriptor for Content-based Image Retrieval", IEEE Access, Vol 9, 2021, pp. 135608-135629 (**SCI, IF: 3.476**)
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70. M. Ehtisham-ul-Haq, **Ali Javed**, et al., "Robust Human Activity Recognition using Multimodal Feature-Level Fusion", IEEE Access, Vol. 7, 2019, pp. 60736 – 60751 **(SCI, IF:4.098)**.
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77. Humaira A. Ghafoor, **Ali Javed**, Aun Irtaza, Hassan Dawood, Hussain Dawood, and Ameen Banjar, "Egocentric Video Summarization Based on People Interaction Using Deep Learning", 2018(1), p.7586417. **(SCI, IF:1.179)**.
78. Aun Irtaza, Tehseen Ahmad, Arfan Jaffar, Ahmad Khan, Ali Javed, M. Tariq Mahmood, "An Ensemble Based Evolutionary Approach to Class Imbalance Problem with Applications in CBIR" Applied Sciences, Vol. 08, No. 04, 2018. **(SCI, IF: 1.68)**
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### **Selected Conference Proceedings**

81. Qurat-ul-Ain, **Ali Javed**, Khalid Malik, "Exposing the Limits of Deepfake Detection Using Novel Facial Mole Attack: A Perceptual Black-Box Adversarial Attack Study", International Conference on Image Processing (ICIP), October 2024, Abu Dhabi, UAE.
82. Hafsa Ilyas, **Ali Javed**, Khalid Malik, ConvNext-PNet: An interpretable and explainable deep-learning model for deepfakes detection, IEEE International Joint Conference on Biometrics (IJCB), 2024, Buffalo, NewYork ,USA.
83. Hafsa Ilyas, **Ali Javed**, Khalid Malik, "Deepfakes Examiner: An End-to-End Deep Learning Model for Deepfakes Videos Detection", 16<sup>th</sup> IEEE International Conference on Open-Source Systems and Technologies (ICOSST), 14-15 December 2022.
84. Hafsa Ilyas, **Ali Javed**, Muteb Aljasem, Mustafa Alhababi "Fused Swish-ReLU Efficient-Net Model for Deepfakes Detection", 9th International Conference on Automation, Robotics and Applications (ICARA), 10-12 Feb 2023, Abu Dhabi, UAE.
85. Hafsa Ilyas, **Ali Javed**, Khalid Malik, Aun Irtaza "Deepfakes Examiner: An End-to-End Deep Learning Model for Deepfakes Videos Detection", 16<sup>th</sup> IEEE International Conference on Open-Source Systems and Technologies (ICOSST), 14-15 December 2022.

86. Zarish Anwar, **Ali Javed**, Khalid Malik, "AEXANet: An End-to-End Deep Learning based Voice Anti-spoofing System", AI4MFDD workshop on International Conference on Pattern Recognition, August 2022, Montreal Canada.
87. Marriam Nawaz, Tahira Nazir, **Ali Javed**, Momina Masood and Hussain Dawood, "Melanoma moles detection and classification using CornerNet model", International Conference on Logistics (ICL), 2022, Jeddah, Saudi Arabia.
88. Muhammad Umer, **Ali Javed** and Hussain Dawood, "EnhancedNet deep learning model for plant disease classification", International Conference on Logistics (ICL), 2022, Jeddah, Saudi Arabia.
89. Qurat-ul-Ain, **Ali Javed**, Khalid Malik, "Face-Swap Deepfakes Detection using Novel Multi-directional Hexadecimal Feature Descriptor", IBCAST, September 2022, Bhurban Murree.
90. Baber Younis, **Ali Javed**, Farman Hassan, "Fall Detection System Using Novel Median Deviated Ternary Patterns and SVM", 2021 4th International Symposium on Advanced Electrical and Communication Technologies (ISAECT), Khobar, Saudi Arabia, 6-8 December 2021, Virtual Conference.
91. Yousra Zafar, **Ali Javed**, Khalid Mahmood Malik, Jeremy Santamaria, Ghous Malik, "A Diagnostic System for Intracranial Saccular and Fusiform Brain Aneurysm with Location Detection", IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI), 27-30 July 2021, Virtual Conference.
92. Muhammad Umer Farooq, **Ali Javed**, Khalid Mahmood Malik, Anas Raza, "A Lightweight and Interpretable Deepfakes Detection Framework", International Conference on Advanced Engineering, Technology and Applications (ICAETA), 9-11 July 2021, Istanbul, Turkey.
93. Farman Hassan, **Ali Javed**, "Voice Spoofing Countermeasure for Synthetic Speech Detection", 2021 International Conference on Artificial Intelligence (ICAI), 5-7 April 2021, Islamabad, Pakistan.
94. Tahira Nazir, Aun Irtaza, **Ali Javed**, Hafiz Malik, Awais Awan, Marriam Nawaz, "Digital Image Forensic Analysis using Hybrid Features", 2021 International Conference on Artificial Intelligence (ICAI), 5-7 April 2021, Islamabad, Pakistan.
95. Momina Masood, Marriam Nawaz, Tahira Nazir, **Ali Javed**, Awais Awan, Rabiya Mahum, "Classification of Deepfake videos using pre-trained convolutional neural networks", 2021 International Conference on Digital Futures and Transformative Technologies (ICoDT2), 20-21 May 2021, Islamabad, Pakistan.
96. Fatima Zohra, **Ali Javed**, Hussain Dawood, "Survival Rate Prediction Model of Cardiovascular Disease Patients by Quantifying the Risk Profile using SVM", IEEE International Conference on Computer and Information Sciences (ICCIS), 13-15 Oct, 2020.
97. Tahira Nazir, Aun Irtaza, **Ali Javed**, et al., "Diabetic Retinopathy Detection based on Hybrid Feature Extraction and SVM", 13<sup>th</sup> IEEE International Conference on Mathematics, Actuarial, Computer Science and Statistics, 14-15 Dec, 2019.
98. Faiza Rashid, Aun Irtaza, Nudrat Nida, **Ali Javed**, Hafiz Malik, Khalid Mahmood Malik, "Segmenting melanoma Lesion using Single Shot Detector (SSD) and Level Set Segmentation Technique", 13<sup>th</sup> IEEE International Conference on Mathematics, Actuarial, Computer Science and Statistics, 14-15 Dec, 2019.
99. Rabia Afzal Minhas, and **Ali Javed**. "X-EYE: A Bio-smart Secure Navigation Framework for Visually Impaired People." In *2018 International Conference on Signal Processing and Information Security (ICSPIS)*, pp. 1-4. IEEE, 2018.
100. Muhammad Haseeb Nasir, **Ali Javed**, Aun Irtaza, Hafiz Malik, Muhammad Tariq Mahmood, "Event Driven Video Summarization of Cricket", 7<sup>th</sup> International Conference on Frontiers of Information Technology, Paris, France, 14-16 April, 2018.
101. Aun Irtaza, Syed Adnan, Sumair Aziz, **Ali Javed**, Obaid Ullah, Muhammad Tariq Mahmood, "A Framework for Fall Detection of Elderly People by Analyzing Environmental Sounds through Acoustic Local Ternary Patterns", IEEE International Conference on Systems, Man, and Cybernetics, Banff, Canada, 5-8 Oct, 2017.
102. **Ali Javed**, Khalid Bashir Bajwa, Hafiz Malik, Aun Irtaza, "An Efficient Framework for Automatic Highlights Generation from Sports Videos", presented in IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), NewOrleans, USA, March 5-9, 2017.
103. **Ali Javed**, K.B. Bajwa, Hafiz Malik, Aun Irtaza, M. T. Mahmood, "A Hybrid Approach for Summarization of Cricket Videos", IEEE International Conference on Consumer Electronics-Asia, Seoul, Korea, 26-28 Oct, 2016.

104. Samina Jan, **Ali Javed**, Muhammad Nadeem Majeed, "Quality Category Matrix to ensure the quality of Software Products" International Conference on Software and Information Engineering, Phuket, Thailand May 2012

### **Book Chapters**

105. Mahum, R., Irtaza, A., Javed, A. (2023). Text to Speech Synthesis Using Deep Learning. In: Parah, S.A., Hurrah, N.N., Khan, E. (eds) Intelligent Multimedia Signal Processing for Smart Ecosystems. Springer, Cham. [https://doi.org/10.1007/978-3-031-34873-0\\_12](https://doi.org/10.1007/978-3-031-34873-0_12)
106. Riaz, T., Dar, T., Ilyas, H., **Javed, A.** (2022). An Inception-ResNetV2 Based Deep Learning Model for COVID-19 Detection. In: Ullah, A., Anwar, S., Rocha, Á., Gill, S. (eds) Proceedings of International Conference on Information Technology and Applications. Lecture Notes in Networks and Systems, vol 350. Springer, Singapore. [https://doi.org/10.1007/978-981-16-7618-5\\_19](https://doi.org/10.1007/978-981-16-7618-5_19)
107. Fatima Khalid, **Ali Javed**, Aun Irtaza, Khalid Malik, "Deepfakes Catcher: A Novel Fused Truncated DenseNet Model for Deepfakes Detection", In: Anwar, S., Ullah, A., Rocha, Á., Sousa, M. (eds) Proceedings of International Conference on Information Technology and Applications (ICITA) 20-22 Oct, 2022, Lisbon, Portugal. Lecture Notes in Networks and Systems, vol 614. Springer, Singapore. <https://doi.org/10.1007/978-981-19-9331-2>
108. Tarim Dar, Ali Javed, "DarkSIL Detector for Facial Emotion Recognition", In: Anwar, S., Ullah, A., Rocha, Á., Sousa, M. (eds) Proceedings of International Conference on Information Technology and Applications (ICITA) 20-22 Oct, 2022, Lisbon, Portugal. Lecture Notes in Networks and Systems, vol 614. Springer, Singapore. <https://doi.org/10.1007/978-981-19-9331-2>

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### **ADVISING ACTIVITY**

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#### **PhD Thesis Supervision**

Students Graduated: **05**

1. **Umar Ali Khan**, Fall 2022 (Currently Assistant Professor at Gordon College, Rawalpindi, Pakistan)
2. **Mariam Nawaz**, Spring 2023 (Currently Lecturer at UET Taxila, Pakistan)
3. **Iram Abdullah**, Spring 2024 (Currently Lecturer at NUTECH University, Pakistan)
4. **Rabbia Mahum [Co-supervision]**, Spring 2024 (Currently Lecturer at UET Taxila, Pakistan)
5. **Qurat-ul-ain**, Fall 2025 (Currently Lecturer at Shifa Tameer-e-Millat University, Islamabad, Pakistan)

Students currently enrolled: **4**

6. **M. Khateeb Khan**, Fall 2026 (Currently Lecturer at Iqra University, Pakistan)
7. **Hafsa Ilyas**, Fall 2026 (Currently Research Assistant at MSP Lab, SED, UET Taxila, Pakistan)
8. **Seema Islam**, Fall 2028 (Currently Lecturer at COMSATS University, Wah, Pakistan)
9. **Hira Iftikhar**, Fall 2028 (Currently Lecturer at HiTech University, Taxila, Pakistan)

#### **MS Thesis Supervision**

Students Graduated: **59**

1. **Sidra Islam**, **MS Software Engineering**, UET Taxila, Fall, 2011 (Faculty at HITECH University-Taxila)  
Thesis: "An Intelligent Event Detection and Alarm Based Surveillance Algorithm for Video Summarization"
2. **Rabeea Islam**, **MS Software Engineering**, UET Taxila, Fall, 2012  
Thesis: "An Intelligent Alarm and messaging based Surveillance system for Fall Detection and Absence Recognition of Unaccompanied Child"
3. **Samina Jan**, **MS Software Engineering**, UET Taxila, Fall, 2012  
Thesis: "A customized approach of process improvements in Agile blend with CMMI Practices in Pakistan"
4. **Muazzam Maqsood**, **MS Software Engineering**, UET Taxila, Spring, 2013 (Currently Faculty at COMSATS Attock, Pakistan)  
Thesis: "A Layered approach for Railway Track Detection and stacking using satellite imagery"
5. **Arta Iftikhar**, **MS Software Engineering**, UET Taxila, Spring, 2013 (Currently Faculty at UET Taxila, Pakistan)

Thesis: "Video Analytic Algorithm for Automatic Vehicle Classification"

6. **Aziz-ur-Rehman, MS Software Engineering, UET Taxila, Spring, 2013 (Currently at NETSOL Lahore, Pakistan)**  
Thesis: "Location Aware Application using Targeted Approach"

7. **Sadaf Naheed, MS Software Engineering, UET Taxila, Spring, 2013 (Currently at MoD, Islamabad, Pakistan)**  
Thesis: "Human Identification on the basis of gaits"

8. **Wajeeha batool, MS Software Engineering, UET Taxila, Fall, 2013 (Currently Faculty at UET Taxila, Pakistan)**  
Thesis: "Face Recognition based Video Skimming Algorithm for Theft Prevention"

9. **Zeeshan Aslam, MS Software Engineering, UET Taxila, Fall, 2013 (Currently at WAPDA, Islamabad, Pakistan)**  
Thesis: "An Intelligent Alarm based Visual Eye Tracker for Preventing cheating in exams"

10. **Syed Khurram Shah, MS Software Engineering, UET Taxila, Fall, 2013 (Currently at Ufone, Islamabad, Pakistan)**  
Thesis: "Architecture for ensuring high availability of threads-based Grid"

11. **Azhar-ud-din, MS Software Engineering, UET Taxila, Fall, 2013 (Currently at IT Org. in Canada)**  
Thesis: "Real Time Billing and Failover in AAA (Authentication, Authorization and Accounting)"

12. **Saima Nazir, MS Software Engineering, UET Taxila, Spring, 2014 (Currently Faculty at FJWU, Islamabad, Pakistan)**  
Thesis: "Urdu Optical Character Recognition System"

13. **Faiza Ayub Syed, MS Software Engineering, UET Taxila, Spring, 2014 (Currently Faculty at GIFT University, Pakistan)**  
Thesis: "Vehicle Make and Model Recognition System"

14. **Adeel Rafeeq, MS Software Engineering, UET Taxila, Spring, 2014 (Currently PhD Scholar at Jeju National University, South Korea)**  
Thesis: "Automatic Detection and Recognition of Traffic Sign Board under Adverse Condition"

15. **Uzair Iqbal, MS Software Engineering, UET Taxila, Spring, 2015 (Currently Faculty at NUML, Islamabad, Pakistan)**  
Thesis: "R-SCRUM: Introduction of Model driven Architecture (MDA) in agile method"

16. **Saym Pervaiz, MS Software Engineering, UET Taxila, Spring, 2015 (Currently Assistant Director at Higher Education Commission Islamabad, Pakistan)**  
Thesis: "Development procedures for Inventory Management with Financial Accounting System"

17. **Arash Korrani, MS Software Engineering, UET Taxila, Fall, 2015 (Currently Software Consultant at Qatar)**  
Thesis: "Implementing HL7 V3 Standard using Windows Phone with Client Server Cache Architecture"

18. **M Kamran, MS Software Engineering, UET Taxila, Fall, 2015 (Currently Faculty at COMSATS Attock, Pakistan)**  
Thesis: "An Intelligent Medical Recommender System"

19. **Salman Khan, MS Software Engineering, UET Taxila, Fall, 2015 (Currently Faculty at UST, Bannu, Pakistan)**  
Thesis: "Overcoming the Energy Efficiency Issues in Mobile Cloud Computing"

20. **M Jabbar, MS Software Engineering, UET Taxila, Fall, 2015 (Currently Faculty at University of Gujrat, Pakistan)**  
Thesis: "An Intelligent Book Recommender System for mobile platform"

21. **Haseeb Nasir, MS Software Engineering, UET Taxila, Spring, 2016 (Currently Faculty at UMT, Sialkot, Pakistan)**  
Thesis: "Text Caption based Video Skimming Algorithm for Cricket"

22. **Samia Ishtiaq, MS Software Engineering, UET Taxila, Spring, 2016**  
Thesis: "Recommender System for Mobile based discounted shopping"

23. **Iram Abdullah, MS Software Engineering, UET Taxila, Spring, 2016 (Currently faculty at HiTech University, Taxila, Pakistan)**  
Thesis: "Action Recognition Via Human Pose Estimation"

24. **Hikmat-ullah Khan, MS Software Engineering, UET Taxila, Spring, 2016**

Thesis: "E-Filing System for Government Offices"

25. **Shamayla Shahzadi, MS Software Engineering, UET Taxila, Fall, 2016 (Currently at Intelligensia Software House, Islamabad, Pakistan)**  
 Thesis: "A Unified Agile Testing Framework for Mobile Applications"

26. **Zia-ur-Rehman, MS Software Engineering, UET Taxila, Fall, 2016 (Currently faculty at UST-Bannu, Pakistan)**  
 Thesis: "Middleware Application for Alerting Forest Fires using Wireless Sensor Network"

27. **Fatimah Danish Ali, MS Software Engineering, UET Taxila, Fall, 2016 (Currently faculty at APCOMS, Pakistan)**  
 Thesis: "Robust Real-Time Video Streaming Analysis Algorithm for Situation Awareness through Hand Gestures"

28. **Saba Awan, MS Software Engineering, UET Taxila, Spring, 2017 (Currently faculty at UET Taxila, Pakistan)**  
 Thesis: "Mining Road Accident Data to Profile Certain Accident Types in order to Improve Road Safety"

29. **Abeer Toheed, MS Software Engineering, UET Taxila, Spring, 2018 (Currently faculty at APCOMS, Pakistan)**  
 Thesis: "An Automated for Advertisement Detection and Removal from Sports Videos using Audio-visual cues"

30. **Sidra Sajid, MS Software Engineering, UET Taxila, Spring, 2018 (Currently working as IT Officer in District Hospital Kalarsaydan, Pakistan)**  
 Thesis: "An Effective Framework for Speech and Music Segregation"

31. **Bushra Zeb, MS Software Engineering, UET Taxila, Spring, 2018 (Free Lancer)**  
 Thesis: "An Excitement Detection Framework for Automatic Highlights Generation of Sports Videos"

32. **Amen Ali, MS Software Engineering, UET Taxila, Fall, 2018. (Captain in Pak Army)**  
 Thesis: "A Generic method to detect slow motion replays in Sports Videos"

33. **Humaira Abdul Ghafoor, MS Software Engineering, UET Taxila, Fall, 2018**  
 Thesis: "Egocentric Video Summarization based on People Interaction"

34. **Rabia Afzal Minhas, MS Software Engineering, UET Taxila, Fall, 2018 (Currently Faculty at Capital University of Science and Technology, Islamabad)**  
 Thesis: "Shot Classification in Sports Videos"

35. **Syeda Rida Fatima, MS Software Engineering, UET Taxila, Fall, 2019 (Free Lancer)**  
 Thesis: "A Multi-Layer Dual Attention Deep Learning Model with Refined Word Embeddings for Aspect-Based Sentiment Analysis"

36. **Fatima Zohra, MS Software Engineering, UET Taxila, Spring, 2020 (Captain in Pak Army)**  
 Thesis: "Survivability Level Prediction of Cardio-Vascular Disease (CVD) Patients by Quantifying the Risk Profile"

37. **Tanzeel Rehman, MS Software Engineering, UET Taxila, Spring, 2020 (Captain in Pak Army)**  
 Thesis: "An Effective Framework for Fatigue Detection"

38. **Farman Ali Khan, MS Software Engineering, UET Taxila, Feb, 2021**  
 Thesis: "A Hybrid Voice Anti-spoofing Framework"

39. **Muhammad Umer Farooq, MS Software Engineering, UET Taxila, Fall, 2020 (Freelancer)**  
 Thesis: "Deepfakes Detection using Audio-visual Cues"

40. **Tuba Arif, MS Software Engineering, UET Taxila, Mar, 2021 (Currently working at I-Engineering PVT LTD.)**  
 Thesis: "Spoofing Countermeasure for Logical Access Attacks"

41. **Ayesha, MS Software Engineering, UET Taxila, Feb, 2021**  
 Thesis: "A Novel Texture Descriptor for Image Retrieval"

42. **Yousra Zafar, MS Software Engineering, UET Taxila, Dec, 2021 (Currently working at PoF)**  
 Thesis: "Intracranial Aneurysm Detection System"

43. **Yusra Banaras, MS Software Engineering, UET Taxila, Feb, 2021**  
 Thesis: "Speaker Verification System for ASV systems"

44. **Awais Khan, MS Computer Science, UET Taxila, Feb, 2021-Co-Supervision (PhD Scholar at Oakland University, USA)**  
 Thesis: "De-Focus Image Blur Detection"

45. **Baber Younis, MS Software Engineering, UET Taxila, Mar, 2022**  
Thesis: "Fall Detection using Acoustic Local features"
46. **NaeemUllah, MS Software Engineering, UET Taxila, Mar, 2022**  
Thesis: "A Hybrid Deep Learning Model for Face Mask Detection and Masked Face Recognition"
47. **Rimsha Rafiq, MS Computer Science, UET Taxila, May, 2022**  
Thesis: "DeepFake Detection using Deep Learning Techniques"
48. **Muhammad Umer, MS Software Engineering, UET Taxila, July, 2022**  
Thesis: "A deep learning model for plant disease classification"
49. **Tarim Dar, MS Software Engineering, UET Taxila, July, 2022**  
Thesis: "A deep learning model for facial emotions classification"
50. **Zarish Anwar, MS Software Engineering, UET Taxila, Aug, 2022**  
Thesis: "Audio Examiner: An End-to-End Deep Learning based Voice Anti-spoofing System"
51. **Hafsa Ilyas, MS Software Engineering, UET Taxila, Dec, 2022**  
Thesis: "A Deep Learning Model for Synthetic Image Detection"
52. **Samra Nawazish, MS Software Engineering, UET Taxila, Dec, 2022**  
Thesis: "A Deep Learning Framework for Diabetic Retinopathy Detection"
53. **Tanees Riaz, MS Software Engineering, UET Taxila, Aug, 2022**  
Thesis: "Classification of covid-19 patients using ECG image"
54. **Sundus Ibrar, MS Computer Science, UET Taxila, Aug, 2022**  
Thesis: "Voice Presentation Attacks Detection"
55. **Anam Khursid, MS Software Engineering, UET Taxila, Jan, 2023**  
Thesis: "Deep-Net: A medical image segmentation method based on convolutional neural network"
56. **Noor-ul-Huda, MS Computer Science, UET Taxila, Aug, 2023**  
Thesis: "Detection of synthetic video using deep learning algorithms"
57. **Sifat Ullah, Software Engineering, UET Taxila, Aug, 2024**  
Thesis: "A deep learning based framework for wound classification"
58. **Hamed Al-Tairi, Whitecliffe College, Nov, 2024**  
Thesis: "Voice Authenticator Framework for Logical Access Spoofing Detection"
59. **Zahid Ismail, Whitecliffe College, Nov, 2024**  
Thesis: "Enhancing 5G Network Security with Advanced XDR for Communication Service Providers"

*Students currently enrolled: 3*

60. **Fasiha Fatima, Software Engineering, UET Taxila, Aug, 2024**  
Thesis: "Image forgery detection using deep learning"
61. **Zartashia Bukhari, Software Engineering, UET Taxila, Dec, 2025**  
Thesis: "Liveness Detection using Finger print recognition"
62. **Zoya Arshad, Software Engineering, UET Taxila, Dec, 2025**  
Thesis: "Plant disease detection using deep learning"

### **BE Final Year Project Supervision (100+ Projects till date)**

#### **Selected projects at UET Taxila**

1. Project titled "Automated Handout Generation System" (June, 2011) **Won 2<sup>nd</sup> Position in 1<sup>st</sup> Open House, 2012 at UET Taxila**
2. Project titled "Boutique system with 3d model for web and android" (June, 2012) **Won 1<sup>st</sup> Position in 2<sup>nd</sup> Open House, 2012 at UET Taxila**
3. Project titled "Vehicle 4 Me," (June, 2013) **Won 1<sup>st</sup> Position in 3<sup>rd</sup> Open House, 2013 at UET Taxila**
4. Project titled "Mobile Spy Agent," (June, 2013) **Won 2<sup>nd</sup> Position in 3<sup>rd</sup> Open House, 2013 at UET Taxila**
5. Project titled "Image Manipulation Suite," (June, 2013) **Won 3<sup>rd</sup> Prize in 3<sup>rd</sup> Open House, 2013 at UET Taxila**
6. Project titled "iOnDrive" (June, 2014) **Won 2<sup>nd</sup> Position in 4<sup>th</sup> Open House, 2013 at UET Taxila**

7. Project titled “Citizen Journalist for Social Issues Reporting” (May, 2015)
8. Project titled “Sign Language Translator and Web Platform” (May, 2015) **Won 2<sup>nd</sup> Position in 5<sup>th</sup> Open House, 2015 at UET Taxila**
9. Project titled “X-Eye” (May, 2016) **Won 1<sup>st</sup> Position in 6<sup>th</sup> Open House, 2016 at UET Taxila**
10. Project titled “Optical Panel” (May, 2016) **Won 2<sup>nd</sup> Position in 6<sup>th</sup> Open House, 2016 at UET Taxila**
11. Project titled “Be My Virtual Eyes” (May, 2017) **Won 2<sup>nd</sup> Position in 7<sup>th</sup> Open House, 2017 at UET Taxila**
12. Project titled “Interactive Driving Simulator” (May, 2017) **Won 2<sup>nd</sup> Position in Software Department at 7<sup>th</sup> Open House, 2017 at UET Taxila**
13. Project titled “Bio Smart Secure” (May, 2018) **Won 2<sup>nd</sup> Position in 8<sup>th</sup> Open House, 2018 at UET Taxila**
14. Project titled “Smart Mirror” (May, 2018)
15. Project titled “Be My Voice” (May, 2018)
16. Project titled “Portable Doctor” (May, 2018)
17. Project titled “GYM-Fit” (May, 2019), **Won FYP grant from IGNITE, Islamabad in 2018-19**
18. Project titled “SmartShoe” (May, 2019) **Won FYP grant from IGNITE, Islamabad in 2018-19**
19. Project titled “Commercial Insurance App Using AI” (May, 2019) **Won FYP grant from IGNITE, in 2018-19**
20. Project titled “CarTasy” (May, 2019) **Won 3<sup>rd</sup> Position in 9<sup>th</sup> Open House, 2018 at UET Taxila**
21. Project titled “3D Model Framework of Webstore Products in Augmented Reality” (May, 2019)
22. Project titled “Voice Operated Fall Detection System” (May, 2021)
23. Project titled “RadBot” (May, 2022) **Won FYP grant from IGNITE, Islamabad in 2021-22**
24. Project titled “Speech Deepfakes Detector” (May, 2022)
25. Project titled “Deepfakes Detector” (May, 2022)
26. Project titled “Forensics Voicebot” (June, 2023)
27. Project titled “Unified Deepfakes Detection” (June, 2023)
28. Project titled “Facial Liveness Detection” (June, 2023)
29. Project titled “Facial Emotion Detection” (June, 2023)

#### Supervision at Fatima Jinnah Women University, Rawalpindi

30. Project titled “Image Merger” (July, 2013)
31. Project titled “An Intelligent Human Computer Interface System Based on Eye Gaze Control and Blinking” (July, 2013)
32. Project titled “Real Time Traffic Controller” (July, 2013)
33. Project titled “Analysis of Parking Patterns” (July, 2013)
34. Project titled “Business Intelligence Based Recommendation System For Trip Planner” (July, 2013)
35. Project titled “” (July, 2013)
36. Project titled “Design and Evaluation of effective Graphical User Interface for a business-intelligence based tourism application” (July, 2013)
37. Project titled “Gamified Assignment System for Motivational Learning and Education” (July, 2013)
38. Project titled “A Complete Guide to Tourism for Smart Phones Using Artificial Intelligence” (July, 2013)

#### SEMINARS, TRAININGS AND WORKSHOPS

- Participated in Faculty training for STEAM Education organized by UK-Pakistan Science & Innovation Global Network (UPSIGN) at Kohsar University Murree, 14-15 April 2025.
- Participated in HEC-British Council training on Capacity Building of Principal Investigators held at Marriot, Islamabad, 12-16 September 2022.
- Participated in HEC Online Teaching Level-1 course organized by National Academy of Higher Education, 2021.
- Pakistan-U.S Startup and Ideation training program organized by USAID and GIST on 28<sup>th</sup>-30<sup>th</sup> August, 2018 at Grand Hyatt Hotel, Dubai-UAE.
- Pakistan Software Quality Conference organized by Pakistan Software Testing Board on 7th April, 2018 at FAST University Lahore.
- 4<sup>th</sup> Pakistan Agile Conference organized by Pakistan Agile Development Society on 21<sup>st</sup> October, 2017 at Islamabad.

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- **Pakistan Software Quality Conference** organized by **Pakistan Software Testing Board** on **8th April, 2017** at **Marriot Hotel Islamabad**.
- **2<sup>nd</sup> Editors Café of Asian Council of Science Editors (ACSE)** on **21<sup>st</sup> November, 2016** held at **Pakistan Academy of Sciences, Islamabad**.
- **Asian Council of Science Editors (ACSE)** short course for **Journal Editors on Improving the Journal Quality** on **10<sup>th</sup> August, 2016** held at **Carlton Palace Hotel Dubai, UAE**.
- **Asian Council of Science Editors (ACSE)** short course for **Journal Editors on Bibliometric for Editors** on **10<sup>th</sup> August, 2016** held at **Carlton Palace Hotel Dubai, UAE**.
- **ACSE Workshop on Research Integrity and Peer Review** held on **18<sup>th</sup> February, 2016** organized by **Asian Council of Science Editors** at **Marriot, Islamabad**.
- **29<sup>th</sup> Workshop on Faculty Development for Entrepreneurship and Improvement of Industry Academia Linkage** held on **9<sup>th</sup> February, 2016** at **ICMAP, Islamabad**.
- **Modern Day IT Technologies Seminar** held on **October, 2015** at **University of Michigan, USA**.
- **Workshop on Signal processing in MATLAB** held on **July, 2015** at **University of Michigan, USA**.
- **Entrepreneurship Workshop for Scientists and Engineers** held on **2-7 June, 2014** jointly organized by **USAID and NUST University at NUST, Islamabad**.
- **Technology Entrepreneurship Workshop for Faculty Development and Capacity Building in Pakistan** held on **18<sup>th</sup> & 19<sup>th</sup> April, 2014** jointly organized by **Coventry University, UK and IBA Karachi at Iqra University Islamabad**.
- **Interactive Workshop on CPD Framework for Professional Development of Engineers** held on **May 06, 2014** at **Army Public College of Management Sciences**.
- **GIS Development Workshop** held on **April 14, 2012** at **Foundation University Institute of Engineering & Management Sciences**.
- **Workshop on Communication Skills for Teachers** held on **November 1, 2011** at **CASE**.
- **Windows Phone Application Development Bootcamp** organized under the umbrella of **HEC-Microsoft Education Alliance Agreement** on **28th November 2011** held at **HEC**.
- **Workshop on Modeling of Biological and Active Machine Vision in Robotics** held from **December 19-22, 2008** jointly organized by **GET Lab, University of Paderborn Germany and IPC, MCS NUST**.
- **Seminar on The Linux Operating System and Linux Security** on **April 21, 2005** at **U.E.T Taxila**.

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#### PARTICIPATIONS AND CERTIFICATIONS

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- **Chancellors Gold Medal Certificate of Excellence in MS Computer Engineering**.
- **Certificate of Merit for 3<sup>rd</sup> position overall in class during BS Software Engineering**.
- Participated as **Author** in "**7<sup>th</sup> International Conference on Frontiers of Information Technology**" to present the research paper on **April 14-16, 2018** held at **TimHotel Berthier Paris, France**.
- Participated as **Author** in "**IEEE International Conference on Consumer Electronics-Asia 2016**" to present the research paper on **26-28th October, 2016** held at **COEX Convention Center, Seoul, Republic of Korea**.
- Participated as **Ambassador of Asian Council of Science Editors (ACSE)** in **ACSE Annual Conference** held at **Carlton Palace Hotel, Dubai, UAE** on **11-12 August 2016**.
- Certificate of Participation for **ACSE short course for Journal Editors on Improving the Journal Quality** on **10<sup>th</sup> August, 2016** held at **Carlton Palace Hotel Dubai, UAE**. (Speaker: Dr. Pippa Smart)
- Certificate of Participation for **ACSE short course for Journal Editors on Bibliometric for Editors** on **10<sup>th</sup> August, 2016** held at **Carlton Palace Hotel Dubai, UAE**. (Speaker: Dr. Philip J. Purnell)
- Participated as **Author** in "**International Conference of Software & Information Engineering**" to present the research paper on **28th May, 2012** held at **Cape Panwa Hotel, Phuket, Thailand**
- Certificate of Participation for exclusive Event on **Oracle's Solution for Universities and Higher Education** with the **Chairman of the Higher Education Commission** on **December 2, 2010** held at **Marriot Hotel Islamabad**
- Certificate of Participation for acting as a **Judge of Mathematics Guru Committee in Computing & Engineering Competition 2008** held at **U.E.T Taxila**.
- Certificate of Participation for **Active organizer of Windows Vista launch event** on **30<sup>th</sup> April, 2007**

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held at **U.E.T Taxila**.

- Certificate of Participation for **Active organizer of Pakistan Developer Conference on 19<sup>th</sup> June, 2007** held at **Serena Hotel Islamabad**.
- Certificate of Participation in **International GRAMI Software Competition 2006** held at **U.E.T Taxila**.
- Certificate of Participation in **4<sup>th</sup> Java Soft exhibition 2005** held at **U.E.T Taxila**.

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### LANGUAGE PROFICIENCY

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- Very fluent and proficient in speaking as well as writing English and Urdu

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### COUNTRIES VISITED

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- United Kingdom (2025)
- United States of America (2015, 2019)
- France (2018)
- Spain (2018)
- United Arab Emirates (2016, 2018)
- Republic of Korea (2016)
- The Kingdom of Saudi Arabia (2017)
- The Kingdom of Thailand (2012)

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### HOBBIES

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- Travelling
- Squash
- Photography
- Reading
- Hiking

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### ADMINISTRATIVE RESPONSIBILITIES

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- Acting Chairman, Software Engineering Department, UET Taxila July 2014
- PGS Technical Expert, Software Engineering Department, U.E.T Taxila Jan 2022-Present
- Director Postgraduate Studies, Software Engineering Department, U.E.T Taxila Sep 2020-Feb 2021
- MSP Lab Director, U.E.T Taxila
- Head of Curriculum Review Monitoring Committee, Software Engineering Laboratory at U.E.T Taxila, 2017-present
- Lab Director, Software Engineering Laboratory at U.E.T Taxila, 2012-2015
- In charge Windows Phone Development in Mobile Application Development Wing at UET Taxila
- Advisor SOFTDESK Society
- Focal Person QEC, Computer Science Department at U.E.T Taxila 2021-2022
- Focal Person Social Entrepreneurship, Software Engineering Department at U.E.T Taxila
- Focal Person Open House and Job Fair, Software Engineering Department at U.E.T Taxila
- Class Advisor of Final Year Software Batch at U.E.T Taxila 2012-2014
- In charge Seminar and Workshops conduction in Software Engineering Department at U.E.T Taxila
- In charge Timetable 2012-2014
- Member of Exams Scrutiny Committee for Postgraduate program in Software Department
- Educational and Recreational Trips Advisor for Software Engineering Department at U.E.T Taxila

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### REFERENCES

**Prof. Dr. Hafiz Malik**

*Electrical and Computer Engineering Department*

*University of Michigan Dearborn-MI, USA.*

*Email: [hafiz@umich.edu](mailto:hafiz@umich.edu)*

*Tel: (313)-593-5677*

**Prof. Dr. Khalid Mahmood Malik**

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University of Michigan Flint-MI, USA.  
Email: [drmalik@umich.edu](mailto:drmalik@umich.edu)  
Tel: (248) 370-3542*

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