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## Dr. Usama Ijaz Bajwa

COMSATS University Islamabad, Lahore Campus, Pakistan

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<https://scholar.google.com/citations?user=IGWptLcAAAAJ&hl=en>

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### EDUCATION

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**2008 to April 2013: PhD** from CASE Islamabad / UET Taxila

**2004 to 2006: MS** from CASE Islamabad / UET Taxila

**1999 to 2001: MSc** from Hamdard University, Karachi

**1996 to 1998: BSc** from Punjab University, Lahore

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### EXPERIENCE

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#### INDUSTRIAL EXPERIENCE

**June 2008 to October 2010:**

**Team lead in the project Automatic Personal Identification Biometrics System (APIBS) for Large Scale Applications running under Mohammad Ali Jinnah University, Islamabad, Pakistan, sponsored by National ICT R&D Fund, Ministry of Information Technology, Pakistan** <http://www.ictrdf.org.pk/fp-apibs.htm>.

Responsibilities and Achievements:

- Project Team development, training, and management.
- Problem Solving and collaboration

**2008 to 2010:**

**Research Student & Moderator of Vision and Pattern Recognition Systems (VisPRS) Research group at Muhammad Ali Jinnah University, Islamabad** <http://www.visprs.com>

Responsibilities and Achievements:

- Managing the VisPRS research group as a moderator.
- Carrying out research in the field of face recognition.

**May 2007 to November 2007:**

**Visiting Researcher at Medical Imaging Research Unit (<http://imaging.research.southwales.ac.uk>) at University of South Wales, UK (Formerly University of Glamorgan, UK) <http://www.southwales.ac.uk/>**

Responsibilities and Achievements:

- Development of Infrared Atlas of Normals, A database of normal human skin temperature distribution. <http://imaging.research.southwales.ac.uk/projects/ir/atlas/>

**2004 to 2007:**

**Research Student & Moderator of Machine Vision and Pattern Analysis (MVPA) Research group at Centre for Advanced Studies in Engineering (CASE), Islamabad** <http://www.case.edu.pk/>

Responsibilities and Achievements:

- Carrying out research in the field of finger print verification for both complete and partial finger prints.
- Implementation of finger print recognition algorithms in MATLAB.
- Literature review of Image Super resolution techniques, Image and video epitomes.
- Worked on shadow removal from images.
- Currently working on multi spectral and multi dimensional face recognition.

**Spring 2003 to Fall 2004:**

**Assistant System Analyst (CITC), COMSATS Institute of Information Technology (CIIT), Abbottabad.** <http://www.ciit-atd.edu.pk/>

Responsibilities and Achievements:

- Development Projects: COMSATS online testing system in CITC.

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## TEACHING / RESEARCH EXPERIENCE

**April 2015 to date**

**Tenured Associate Professor (Department of Computer Science) (April 2019 – To Date)**

**Assistant Professor (Department of Computer Science) (July 2011-April 2019) / Associate Head of the Department (Aug 2017-Jan 2021), COMSATS University Islamabad (CUI), Lahore Campus. <http://www.cuilahore.edu.pk>**

- Teaching courses (Digital Image Processing, Operating System Concepts, and Fundamentals of Computer Programming) at under graduate level and Advanced/Special Topics in Image Processing, Advanced Topics in Computer Vision at graduate level.
- Head, Machine Perception & Visual Intelligence Research Group <https://sites.google.com/view/mpvir>
- Supervising PhD, MS and Undergrad Students.
- Being the Associate Head of the Department, managing day to day departmental activities.
- Program Chair (International Conference on Frontiers of Information Technology, 2014-Till Date) [www.fit.edu.pk](http://www.fit.edu.pk)
- Chairperson COMSATS International Model United Nation (CIMUN 2019)
- Faculty Advisor, Character Building Society (CBS), Formed on the request of National Accountability Bureau (NAB).
- Convener (Local Industry Liaison Committee, B2B Meetings Committee), Pak China Business Forum – Industrial Expo, 2019. [www.pcbf.org.pk](http://www.pcbf.org.pk)
- Convener (Local Industry Liaison Committee, B2B Meetings Committee), Pak China Business Forum – Industrial Expo, 2018. [www.pcbf.org.pk](http://www.pcbf.org.pk)
- Convener (Local Industry Liaison Committee, Sponsorship Committee, B2B Meetings Committee), Pak China Business Forum, 2017. [www.pcbf.org.pk](http://www.pcbf.org.pk)
- COMSATS Institute of Information Technology Lahore, focal person at “Standing Committee on Technical Education” and “Standing Committee on Science, Technology & Technology Promotion” in Lahore Chamber of Commerce & Industry (2016, 2017)
- Convener (Local Industry Liaison Committee, Sponsorship Committee, B2B Meetings Committee), Pak China Business Forum, 2016. [www.pcbf.org.pk](http://www.pcbf.org.pk)

**October 2010 to March 2015**

**Assistant Professor (Department of Computer Science), COMSATS Institute of Information Technology (CIIT), Abbottabad. <http://www.ciit-atd.edu.pk/>**

- Program Chair (International Conference on Frontiers of Information Technology, 2014) [www.fit.edu.pk](http://www.fit.edu.pk)
- Head, Information Security & Image Processing (ISIP) Research Group
- Coordinator Graduate Programs (MS & PhD)
- Program Head (BSCS Program) (till August 2013)
- Head, under graduate student project evaluation committee (till August 2013)
- Along with teaching, supervision of MS students and under graduate final year projects. Taught courses: Operating System Concepts, Digital Image Processing & Advance Topics in Digital Image Processing
- Convener Departmental Graduate Admission Committee, Departmental Graduate Alumni Committee, Departmental Doctoral Comprehensive Examination Committee
- Member Departmental Academic Review Committee, Campus Academic Review Committee, Departmental Faculty Hiring Committee, Departmental Advisory Committee & Campus Graduate Program Committee.

**Fall 2010:**

- Taught a course “Digital Image Processing” at NUST (EME college, Mechatronics department) (MS program)

**Fall 2009:**

- Taught a course “Digital Image Processing” at NUST (EME college, Mechatronics department) (MS program)

**Spring 2003 to Fall 2004:**

**Lecturer (Faculty of Computer Science)/ Assistant System Analyst (CITC), COMSATS Institute of Information Technology (CIIT), Abbottabad. <http://www.ciit-atd.edu.pk/>**

- Taught courses: Introduction to Algorithms, Operating System Concepts & Software Engineering.

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- Organized & managed participation of Computer Science department students in various extracurricular events.

### **Spring 2005 to Spring 2008:**

- Taught a course “Telecom policies and regulations” at Sir Syed School of information technology (SS-CARE).
- Teacher Assistantships in the courses Digital Image processing, Computer Vision and Pattern Recognition taught at Muhammad Ali Jinnah University.
- Teacher Assistantships in the courses Computer Vision, Digital Communication, Broadband Switching Systems, Software Engineering & Wireless Communication taught at CASE.

### **FUNDING SECURED**

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- NVIDIA Academic Hardware Grant (February, 2022) worth **USD 2400**
- **Funding of PKR 43.284 Million** for establishment of Video Analytics Lab under the National Center in Big Data and Cloud Computing (NCBC) approved by Planning Commission, Govt. of Pakistan (CO PI) 2018.
- **Funding of PKR 6 Million** for Research Project No 15604, entitled “A Multi-Biometric Access Control System (MBACS) for Highly Secured Environment” awarded under the National Research Program for Universities (NRPU) approved by Higher Education Commission (HEC) of Pakistan (CO PI) 2022.
- Funding of FYP projects under the NGIRI program of IGNITE (Formerly National ICT R&D Fund) 2020.
- Funding of FYP project under the NGIRI program of IGNITE (Formerly National ICT R&D Fund) 2018.

### **TRAININGS**

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- Higher Education Commission-British Council Principal Investigator’s Research Capacity building program for Principal Investigators (March 7-11, 2022, Islamabad)
- Training the coaches for the EU Erasmus+ funded project, Transforming Academic Knowledge to Develop Entrepreneurial Universities in Pakistan (TAKE UP)”, EU project ID: 609957-EPP-1-2019-1-DE-EPPKA2-CBHE-JP (July 25-29, 2022, Saarbrücken, Germany)

### **RESEARCH AREAS EXPLORED**

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- Biometrics (Face, Fingerprint and Iris Recognition)
- Video Analytics
- Medical Image Processing
- Natural Language Processing
- Agri Informatics

### **COURSES/WORKSHOPS/CONFERENCES**

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- Delivered keynote speech on Brain Tumour Image Segmentation at 1st International Conference on Machine Perception and Artificial Intelligence (ICMPAI-2022), Islamia University Bahawalpur, 17<sup>th</sup> June, 2022
- Program Chair, 19<sup>th</sup> International Conference on Frontiers of Information Technology (FIT 2022)
- Program Chair, 18<sup>th</sup> International Conference on Frontiers of Information Technology (FIT 2021)
- Delivered a talk on Digital Image Processing at IEEE Computer Society Chapter Abbottabad, 27<sup>th</sup> December 2020, COMSATS University Islamabad, Abbottabad Campus.
- Delivered a talk on Image processing applications at Microsoft Learn Student Ambassador program, 9<sup>th</sup> October 2020, COMSATS University Islamabad, Lahore Campus.
- Delivered a talk on “Automated Anomaly Recognition using Deep Net Architecture”, 31<sup>st</sup> August 2020 at International Symposium on Multimodal Sensing and Information Processing, Xidian University, China
- Program Chair, 17<sup>th</sup> International Conference on Frontiers of Information Technology (FIT 2019)
- Delivered a talk, “Plant Disease Detection using Multispectral Images: A Beginners Perspective” at National Conference on Analysis of Multispectral Radiometer and Satellite Data for Better Monitoring and Management of Crops and Livestock Production, 30<sup>th</sup> July 2019, Virtual University of Pakistan, Lahore, Pakistan
- Program Chair, 16<sup>th</sup> International Conference on Frontiers of Information Technology (FIT 2018)
- Program Chair, 15<sup>th</sup> International Conference on Frontiers of Information Technology (FIT 2017)
- Delivered a talk, “Basics of Event Management” at IEEE mini POCO 2017, Lahore, Pakistan
- Program Chair, 14<sup>th</sup> International Conference on Frontiers of Information Technology (FIT 2016)
- Program Chair, 13<sup>th</sup> International Conference on Frontiers of Information Technology (FIT 2015)

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- Program Committee Member, Special Session on Formal Modelling for Machine Learning Techniques, The 14<sup>th</sup> IEEE International Conference on Machine Learning and Applications (IEEE ICMLA'15)
  - Program Chair, 12<sup>th</sup> International Conference on Frontiers of Information Technology (FIT 2014)
  - Delivered a lecture on “Automated Fingerprint Identification System” in Capacity Building Course on Forensic Science & Scientific Aids, organized by Research & Training Cell, National Accountability Bureau (NAB), Islamabad, Pakistan, July 10, 2014
  - Member technical committee for International Conference on Frontiers of Information Technology (FIT) 2009, 2010, 2011, 2012 and 2013
  - Organized the International Conference on Frontiers of Information Technology (FIT), Islamabad, Pakistan, 2010, 2011 and 2012
  - Organized the IEEE International Conference on Emerging Technologies (ICET), Center for Advanced Studies in Engineering (CASE), Islamabad, Pakistan, September 17-18, 2005
  - Attended the 8th Course on the Theory and Practice of Infra-Red Thermal Imaging in Medicine at University of Glamorgan, UK.
  - Attended and gave a talk on multi model and multi-dimensional face recognition at Frontiers of Information Technology, FIT 2008, 18-19 December 2008, Pearl Continental Hotel, Bhurban, Pakistan

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## PROJECTS/THESIS SUPERVISED

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### PhD THESIS

- Ghulam Gilanie, “Automated Detection and Classification of Brain Tumor from MRI Images using Machine Learning Methods”, COMSATS University Islamabad, Lahore Campus, 2019. (Completed)
- Mubbashar Saddique, “Robust Video Forgery Detection and Localization using Artificial Intelligence Techniques”, COMSATS University Islamabad, Lahore Campus, 2021. (Co Supervisor) (Completed)
- Khurram Ejaz, “Image Segmentation Method for Brain Tumor Detection using MRI Imaging”, Universiti Teknologi Malaysia, 2021. (Co Supervisor) (Completed)
- Rafaqat Alam Khan, “A Robust Framework for the Detection of Fire and Smoke in Complex Surveillance Environments using Deep Learning”, COMSATS University Islamabad, Lahore Campus. (In Progress)
- Gulshan Saleem, “Anomaly Detection in Low-Quality Surveillance Videos”, COMSATS University Islamabad, Lahore Campus. (In Progress)
- Yasar Mehmood, “A Framework for the Diagnosis and Prognosis of Brain Tumor Using Deep Learning”, COMSATS University Islamabad, Lahore Campus. (In Progress)
- Saif Ali, “Liver Tumor Detection and Classification”, COMSATS University Islamabad, Lahore Campus. (In Progress)
- Muhammad Owais Khan, “Self Supervised Neural Networks for Medical Image analysis”, COMSATS University Islamabad, Lahore Campus. (In Progress)

### MS THESIS

- Aasma Aslam, “Automated Facial Emotion Recognition”, COMSATS Institute of Information Technology, Abbottabad. (Completed)
- Salahuddin Ayubi, “Super-Resolution Based Image Enhancement of Biomedical Images”, COMSATS Institute of Information Technology, Abbottabad. (Completed)
- Rakhshanda Yousaf, “Reconstruction of Scene Opposite to the Subjects in an Image Using Eye Reflections”, COMSATS Institute of Information Technology, Abbottabad. (Completed)
- Miraj Asghar, “Fully Unsupervised Word Segmentation for Morphologically Rich Languages”, COMSATS Institute of Information Technology, Abbottabad. (Co Supervisor) (Completed)
- Sofia Naureen Khan, “Digital Watermarking Scheme in High Efficiency Video Coding (HEVC)”, COMSATS Institute of Information Technology, Abbottabad. (Completed)
- Waqas Ahmed, “Reduced Complexity and Optimized Face Recognition Approach Based on Facial Symmetry”, COMSATS Institute of Information Technology, Abbottabad. (Completed)
- Abdullah Ali Shah, “A CADe System for Fast and Accurate Malignant Lung Nodule Detection”, COMSATS Institute of Information Technology, Abbottabad. (Completed)
- Shahzada Gulfam, “Face Recognition from Real Time Surveillance Videos”, COMSATS Institute of Information Technology, Abbottabad. (Completed)
- Syed Husnain Bukhari, “Exploring Semantic Tagger, BableNet and WordNet for Detecting Different Types of Paraphrased Plagiarism”, COMSATS Institute of Information Technology, Lahore. (Completed)
- Ahmad Usama, “Automated Detection of Early Pulmonary Nodule in Computed Tomography Images”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Javaid Iqbal, “Automatic Brain Tumor Segmentation in Magnetic Resonance Images through Region Based Approach”, COMSATS University Islamabad, Lahore Campus. (Completed)

- Ramna Maqsood, “Anomaly Detection in surveillance videos for Real Time Monitoring Using 3D Deep Neural Networks”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Maimoona Rafiq, “Reconstruction of scene using corneal reflection”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Hammad-ud-din Ahmed, “Deception Detection using Facial Action Coding System in Videos using Deep Networks”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Imran Zaman, “A Robust Deep Network based Multi Camera Multi Object Tracking”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Sareya Qayyum, “Rotation Invariant Disguised Facial Recognition using Deep Networks”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Ali Hussain, “Detection of Fire and Smoke from Video Sequences”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Muhammad Salman Ghauri, “Enhancing Crime Classification in Surveillance Videos for Real Time Monitoring”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Fatima Zulfiqar, “Individual Reidentification in Multi Camera Multi Object Environment”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Mughees Ahmad, “COVID 19 Detection from Multimodal Medical Images”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Rehan Raza, “Brain Tumor Segmentation using Self Learning”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Muhammad Mubeen, “Automatic Weed detection in Cotton and Tomato Crops of Pakistan”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Hafiz Abdul Rehman, “A coverless text hiding based framework for encryption and decryption of text by generating anime characters using GAN”, COMSATS University Islamabad, Lahore Campus. (Completed)
- Muhammad Sohaib Iqbal, “Classification of MGMT Promotor status for the prediction of the genetic subtype of glioblastoma using modified U-Net and CNN-based Classifier”, COMSATS University Islamabad, Lahore Campus. (In Progress)
- Samia Akram, “Human Action Recognition in Low-Resolution Videos based on Spatio-Temporal Features”, COMSATS University Islamabad, Lahore Campus. (In Progress)
- Rimsha Shoukat, “Robust attentional-based 3D CNN model for video base fire and smoke detection”, COMSATS University Islamabad, Lahore Campus. (In Progress)
- Seemab Ayub, “Weed and Crop detection and localization for major crops of Pakistan”, COMSATS University Islamabad, Lahore Campus. (In Progress)

## UNDER GRADUATE PROJECTS

- Zain-Ul-Abideen, Sadia Waheed Awan, “Speech analysis and recognition using signal processing techniques”, COMSATS Institute of Information Technology, Abbottabad. (Completed)
- Qurat-ul-ain Ali, Memoona Umar, “Touchless Fingerprint Recognition Using Mobile Camera”, COMSATS Institute of Information Technology, Abbottabad. (Completed)
- Fazal Ullah, Waleed Rasheed, “Emotional Computing”, COMSATS Institute of Information Technology, Abbottabad (Completed)
- Maria Rathore, Sahibzadi Annum Shaheen, “Emotion aware Intelligent Tutor for Kids”, COMSATS Institute of Information Technology, Abbottabad (Completed)
- Abdul Hadi Khan, Muhammad Rashid, “Interactive Tourist Guide for Pakistan, An Android Based Mobile Application”, COMSATS Institute of Information Technology, Abbottabad (Completed)
- Bilal Munsif, Muhammad Siddique, “Traffic Expert for SQUID Server”, COMSATS Institute of Information Technology, Abbottabad (Completed)
- Danyal Tajik, Barrera Nazir, “Pilgrim Friend”, COMSATS Institute of Information Technology, Abbottabad (Completed)
- Sardar Alam, Hassan Khan, “Skin Disease Classification”, COMSATS Institute of Information Technology, Abbottabad (Completed)
- Rameez Ahmed, Waqas Farman, “Gesture Based Image Processing Assistant for Surgeons”, COMSATS Institute of Information Technology, Abbottabad (Completed)
- Usman Iqbal, Usman Afzal, “ConnectMe”, COMSATS Institute of Information Technology, Abbottabad (Completed)
- Safi Ullah, Bilal Ameer, Rehan Latif, “Automated Data Organizer”, COMSATS Institute of Information Technology, Lahore (Completed)
- Daud Riaz, Moaz Mahmood Rana, Khurram Ilyas, “Conference Management System”, COMSATS Institute of Information Technology, Lahore (Completed)
- Wasim Sajjad, Samaid Saeed, Waqas Ahmad, “Forgery Resistant Digital Document Creator”, COMSATS Institute of Information Technology, Lahore (Completed) (**Shortlisted for ERUPT 2016**)

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- Sarmad Saleem, Meena Liaqat, “EMODET”, COMSATS Institute of Information Technology, Lahore (Completed) **(Shortlisted for FIT 2016) (Shortlisted for ERUPT 2016)**
  - Muhammad Umair, Haseeb Ahmed, Syed Ali Murtaza, “Multi Spectral Face Recognition”, COMSATS Institute of Information Technology, Lahore (Completed) **(First Position Spring 2017) (Conference Paper Published)**
  - Muhammad Umair Assad, Muhammad Talha Azhar, “Pi Spy”, COMSATS Institute of Information Technology, Lahore (Completed)
  - Muhammad Abdullah Nazir, Sidra Hareem, Ummara Nawaz, “Visionary Vision for Blinds”, COMSATS Institute of Information Technology, Lahore (Completed) **(Shortlisted for Visio Spark 2016) (Shortlisted for FIT 2017)**
  - Muhammad Bilal, Safi Ullah Mehboob, Ahmed Sherjeel Kardar, “My Celebrity Match”, COMSATS Institute of Information Technology, Lahore (Completed)
  - Muhammad Arslan, Sundas Saif, “CAD Application For Brain Tumor Detection Using Image Segmentation”, COMSATS Institute of Information Technology, Lahore (Completed)
  - Shahrukh Tahir, Absar Ahmed Mujaddidi, Hafiz Muhammad Waqas, “Digital Assistant for Visually Impaired People”, COMSATS Institute of Information Technology, Lahore (Completed) **(Shortlisted for FIT 2017)**
  - Talha Fayyaz, Ahmed Ajmal, Arslan Ahmed, “Go Rescue”, COMSATS Institute of Information Technology, Lahore (Completed) **(Shortlisted for BITA 2017)**
  - Salman Danish, Hadique Akhzar, “Short It”, COMSATS Institute of Information Technology, Lahore (Completed)
  - Haseeb Ali, Faiz ul Bari, Ansab bin Mehmood, “Wheat Guard”, COMSATS University Islamabad, Lahore Campus (Completed) **(Distinguished FYP Project Fall 2018) (Incubated in Plan9’s “Launchpad 13 Challenge”) (Incubated in Plan X as Agriasan)**
  - Moeed Khalid, Ali Raza, “Semantic Labelling of HSR Images”, COMSATS University Islamabad, Lahore Campus (Completed) **(First Position FALL 2018) (Distinguished FYP Project Fall 2018) (funded by National Grassroots ICT Research Initiative (2017-18) )**
  - Maham Nasir, Abeera Alvi, Amna Hashmat, “Derma Diagnoser”, COMSATS University Islamabad, Lahore Campus (Completed)
  - Bushra Ishfaq, Suman Khalid, “Breast Cancer detection using image processing”, COMSATS University Islamabad, Lahore Campus (Completed)
  - Nadir Latif, Muftaba Mushtaq, Shahzada Shah Hussain, “EyeSpy”, COMSATS University Islamabad, Lahore Campus (Completed) **(First Position Spring 2019)**
  - Daneyal Mushtaq, Muhammad Akbar, “Warriors-The Legends of Time”, COMSATS University Islamabad, Lahore Campus (Completed) **(Third Position Spring 2019)**
  - Ata Ullah Butt, Hasham Alam, Rija Tariq Lodhi, “Pakistan’s Hall of Fame”, COMSATS University Islamabad, Lahore Campus (Completed) **(Third Position Fall 2019) (Winner/First Position, All Pakistan DICE Competition 2020)**
  - Hamza Tanveer, Laiba Ikram, “Pothole Detection using an Android Application”, COMSATS University Islamabad, Lahore Campus (Completed) **(First Position Fall 2019)**
  - Haris Khan, Umer Riaz, Zaid Ahmad, “Hub ZUH”, COMSATS University Islamabad, Lahore Campus (Completed) **(Winner, Web Development Category, Visio Spark 2019)**
  - Muhammad Maroof, Abdul Wahab, Hassan Shafiq, “Gideon”, COMSATS University Islamabad, Lahore Campus (Completed) **(First Position Spring 2020)**
  - Ramsha Rasheed, Bilal Ahmed, Aisha, “Charades”, COMSATS University Islamabad, Lahore Campus (Completed)
  - Nayab Amir, Noor e Eman, “Game for Dyslexics”, COMSATS University Islamabad, Lahore Campus (Completed)
  - Waqas Ahmed, Hamza Sadiq, Ali Hassan, “AQI Predictor”, COMSATS University Islamabad, Lahore Campus (Completed) **(Second Position Spring 2020)**
  - Ifrah Tehleel, Nauman Akram, Jan Muhammad, “Surveilia”, COMSATS University Islamabad, Lahore Campus (Completed) **(funded by National Grassroots ICT Research Initiative (2020-21)) (Third Position Fall 2020)**
  - Faran Ayyaz, Tehreem Anjum, Faryal Khalid, “Live Bus”, COMSATS University Islamabad, Lahore Campus (Completed) **(funded by National Grassroots ICT Research Initiative (2020-21))**
  - Hamza Latif, Hassan Sharjeel, “Road Pulse”, COMSATS University Islamabad, Lahore Campus (Completed) **(Third Position Fall 2020)**
  - Zenia Kiran, Fareeha Liaqat, “TalkSee”, COMSATS University Islamabad, Lahore Campus (Completed)
  - Burhan Sabir, Muhammad Barakullah, Muhammad Saim, “Raven”, COMSATS University Islamabad, Lahore Campus (Completed)
  - Abdul Wasay, Muhammad Abidullah, Nida Tahir, “Panoptes”, COMSATS University Islamabad, Lahore Campus (Completed) **(Third Position Fall 2021)**
  - Nauman Umer, Ameer Hamza Naveed, “Rashcam”, COMSATS University Islamabad, Lahore Campus (Completed) **(First Position Spring 2022)**
  - Ali Ahmad, Muhammad Umair, Mohammad Wahaj Tariq, “Spectre”, COMSATS University Islamabad, Lahore Campus (In Progress)
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## PUBLICATIONS

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### JOURNAL PUBLICATIONS: IF : 104.65

- Amna Altaf, Muhammad Waqas Anwar, Muhammad Hassan Jamal, **Usama Ijaz Bajwa** (2023), “Exploiting Linguistic Features for Effective Sentence-Level Sentiment Analysis in Urdu Language”, *Multimedia Tools and Applications*, (Accepted) (IF = 2.577)
- Fatima Zulfiqar, **Usama Ijaz Bajwa\***, Yasar Mehmood, “Multi-class classification of brain tumor types from MR Images using EfficientNets”, *Biomedical Signal Processing and Control*, (Accepted) (IF = 5.076)
- M. Ahmad, **U. I. Bajwa\***, Y Mehmood, M. Anwar, “Lightweight ResGRU: A Deep Learning-Based Prediction of SARS-CoV-2 (COVID-19) and its Severity Classification using Multimodal Chest Radiography Images”, *Neural Computing & Applications* (24 Jan, 2023), <https://doi.org/10.1007/s00521-023-08200-0> (IF = 5.102 )
- Rehan Raza, **Usama Ijaz Bajwa\***, Yasar Mehmood, Muhammad Waqas Anwar, Muhammad Hassan Jamal (Jan, 2023), " dResU-Net: 3D Deep Residual U-Net based Brain Tumor Segmentation from Multimodal MRI", *Biomedical Signal Processing and Control*, Volume 79, Issue 1, pp. 103861 (IF = 5.076)
- Ghulam Gilanie, **Usama Ijaz Bajwa\***, Mustansar Mahmood Waraich, Muhammad Waqas Anwar, Hafeez Ullah(12, Jul, 2022), “An Automated and Risk Free WHO grading of Glioma from MRI Images using CNN”, *Multimedia Tools and Applications*, Volume 82, pp. 2857-2869 (IF = 2.577)
- R Khan, A Hussain, **U Bajwa\***, R Raza, W Anwar (22 Dec, 2022), “Fire and Smoke Detection using Capsule Network”, *Fire Technology*, <https://doi.org/10.1007/s10694-022-01352-w>, pp. 581-594 (IF =3.605)
- Saleem, G., **Bajwa, U.I.\*** & Raza, R.H. (20 Oct, 2022), “Toward human activity recognition: a survey”, *Neural Computing & Applications*. <https://doi.org/10.1007/s00521-022-07937-4>, pp.4145-4182 (IF = 5.102 )
- Gulshan Saleem, **Usama Bajwa\***, Rana Raza, Fayez Hussain Alqahtani, Amr Tolba, Feng Xia (14 Oct, 2022),”Efficient Anomaly Recognition Using Surveillance Videos”, *PeerJ Computer Science*, 8:e1117 <https://doi.org/10.7717/peerj-cs.1117>, (IF = 2.411 )
- Amna Altaf, Muhammad Waqas Anwar, M. Hasan Jamal, Sana Hassan, **Usama Ijaz Bajwa**, Gyu Sang Choi, Imran Ashraf (20 Sep, 2022),” Deep Learning based Cross Domain Sentiment Classification for Urdu Language”, *IEEE Access*, Volume 10, pp. 102135-102146 (IF = 3.476)
- Muhammad Javaid Iqbal, **Usama Ijaz Bajwa\***, Ghulam Gilanie, Muhammad Aksam Iftikhar, Muhammad Waqas Anwar (23 Apr, 2022), "Automatic Brain Tumor Segmentation from Magnetic Resonance Images using Superpixel-Based Approach", *Multimedia Tools and Applications*, Volume 81, pp. 38409-38427 (IF = 2.577)
- Waqas Ahmed, **Usama Ijaz Bajwa**, Muhammad Sajid, Muhammad Waqas Anwar (6 June, 2022), “Reduced Complexity and Optimized Face Recognition Approach based on Facial Symmetry”, *Journal of Real-Time Image Processing*, Volume 19, pp. 1225 (IF = 2.293)
- Naheed Akhtar, Mubbashar Saddique, Khurshid Asghar, **Usama Ijaz Bajwa**, Muhammad Hussain, Zulfiqar Habib (6 Jan, 2022), “Digital Video Tampering Detection and Localization: Review, Representations, Challenges and Algorithm”, *Mathematics*, Volume 10, Issue 2, pp. 168 (IF = 2.592)
- Romila Aziz, Muhammad Waqas Anwar, Muhammad Hassan Jamal, **Usama Ijaz Bajwa** (5 Aug, 2021), “A Hybrid Model for Spelling Error Detection and Correction for Urdu Language”, *Neural Computing and Applications*, Volume 33, pp. 14707-14721 (IF = 4.774)
- Haseeb Younis, Muhammad Waqas Anwar, Muhammad Usman Ghani, Aisha Sikandar, **Usama Ijaz Bajwa** (6 May, 2021), “A New Sequential Forward Feature Selection (SFFS) Algorithm for Mining Best Topological and Biological Features to Predict Protein Complexes from Protein Protein Interaction Networks (PPINs)”, *Interdisciplinary Sciences, Computational Life Sciences*, Volume 13, Issue 3, pp. 371-388 (IF = 1.512)
- Ghulam Gilanie, **Usama Ijaz Bajwa\***, Mustansar Waraich, Mutyyba Asghar, Rehana Kousar, Adnan Kashif, Rabab Aslam, Muhammad Qasim, Hamza Rafique (10 Feb, 2021), “Coronavirus (COVID-19) Detection from Chest Radiology Images using Convolutional Neural Networks”, *Biomedical Signal Processing and Control*, Volume 66, pp. 102490 (IF = 3.137)
- Ghulam Gilanie, Nimra Nasir, **Usama Ijaz Bajwa**, Hafeez Ullah (17 Feb, 2021), “RiceNet: Convolutional Neural Networks Based Model to Classify Pakistani Grown Rice Seeds Types”, *Multimedia Systems*, Volume 27, pp. 867-875 (IF = 1.935)
- Ramna Maqsood, **Usama Ijaz Bajwa\***, Gulshan Saleem, Rana Hammad Raza, Muhammad Waqas Anwar (19 Feb, 2021), “Anomaly recognition from surveillance videos using 3D convolution neural network”, *Multimedia Tools and Applications*, Vol. 80, Issue: 12, pp. 18693-18716 (IF = 2.313) 2.757
- Maimoona Rafiq, **Usama Ijaz Bajwa\***, Ghulam Gilanie, Muhammad Waqas Anwar (16 Mar, 2021), “Reconstruction of Scene Using Corneal Reflection”, *Multimedia Tools and Applications*, Vol. 80, Issue: 14, pp. 21363-21379 (IF = 2.313) 2.757
- Khurram Ejaz, Mohd Shafry Mohd Rahim, **Usama Ijaz Bajwa**, Huma Chaudhry, Amjad Rehman, Farhan Ejaz (13 August, 2020), “Hybrid Segmentation Method With Confidence Region Detection For Tumor Identification”, *IEEE Access*, Vol. 9, pp. 35256-35278 (IF = 3.745) 3.367

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#### **FELLOWSHIPS**

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- Higher Education Commission PhD Scholar
- Higher Education Commission fellowship for the International Research Support Initiative Program

#### **AWARDS**

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- **Best University Teacher Award (First Runner Up)(2021), across campuses of COMSATS University Islamabad**
- **Best Teacher Award (2017)**
- **CIIT Research Productivity Awards (2011, 2012, 2013, 2014, 2015, 2016, 2017)**
- Was awarded a scholarship from Ministry of Science & Technology (MoST) Pakistan and 8th in the test held for this scholarship 2000.

#### **PROFESSIONAL SERVICES**

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- Certified Entrepreneurial Coach, Take Up Project, EU Erasmus+ Program
- Program Evaluator, National Computing Education Accreditation Council (NCEAC), Pakistan
- Member, Board of Studies, Department of Computer Science, COMSATS University Islamabad, Pakistan
- Member, Board of Advanced Studies and Research, Lahore Garrison University, Pakistan
- Member, Board of Advanced Studies and Research, University of Sialkot, Pakistan
- Member, Board of Studies, University of Education, Lahore
- Subject Expert, Selection Board, University of the Punjab, Pakistan
- Subject Expert, Selection Board, University of Gujrat, Pakistan
- Subject Expert, Selection Board, University of Sialkot, Pakistan
- Graduate Thesis Evaluator, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan
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- Graduate Thesis Evaluator, Lahore Garrison University, Pakistan
- Graduate Thesis Evaluator, Mirpur University of Science and Technology, Pakistan
- Final Year Project evaluator of many universities.
- Expert, Self-Assessment (SAR) of Graduate Program, FAST-National University, Chiniot-Faisalabad Campus, Pakistan
- Technical Consultant, National Testing Service (NTS) of Pakistan
- Lifetime Registered Engineer, Pakistan Engineering Council, Pakistan

#### **PERSONAL DETAILS**

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Date of Birth: March 2nd, 1977

Marital Status: Married

Languages I speak: Punjabi, Urdu, English, Arabic fluently & a bit of German & Spanish

#### **INTERESTS / HOBBIES**

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Philatelist, Numismatist, Swimmer, Trekker.

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## REFERENCES

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