

## PERSONAL INFORMATION

Passport No: EL4140511  
 Date of Birth: Aug 13, 1993  
 Contact: +92 316 410 1087, mjkh093@gmail.com  
 Skype ID: mjaleedkhan  
 Languages: English, Urdu, Pashto  
 Location: Islamabad, Pakistan.  
 Public Profiles: [Research Gate](#) | [Google Scholar](#) | [Linkedin](#) | [Publons](#)



## QUALIFICATION

MS Electrical Engineering (Signal & Image Processing) [2015 - 2017]	Institute of Space Technology (IST), Islamabad	CGPA = 3.57/4.00
BS Computer Systems Engineering [2011 - 2015]	University of Engineering and Technology (UET), Peshawar	CGPA = 2.82/4.00

## EXPERIENCE

Lecturer at Department of Electrical Engineering, Institute of Space Technology, Islamabad.  
 Courses Taught: Computer Programming, Digital Logic Design.  
 [Oct 2018 – present]

Lecturer at Khan Institute of Computer Sciences and Information Technology, Rawalpindi.  
 Courses Taught: Digital Image Processing, Mobile Application Development.  
 [Oct 2016 – Oct 2018]

Graduate Research Assistant at Institute of Space Technology, Islamabad.  
 Research Areas: Deep Learning, Hyperspectral Image Analysis, Computer Vision.  
 [Sept 2016 – Sept 2017]

Android Trainer at InductIn, Islamabad.  
 Trainings Delivered: Android App Development, Soft Skills Development  
 [Jul 2016 – Sept 2016]

## RESEARCH

## JOURNAL ARTICLES

1. **M. Jaleed Khan**, H. S. Khan, A. Yousaf, K. Khurshid and A. Abbas, "Modern Trends in Hyperspectral Image Analysis: A Review", *IEEE Access*, 6(1): 14118-14129, 2018. DOI: 10.1109/ACCESS.2018.2812999. [Link](#)
2. **M. Jaleed Khan**, A. Yousaf, K. Khurshid, A. Abbas, "Deep Learning for Automated Forgery Detection in Hyperspectral Document Images", *Journal of Electronic Imaging*, 27(5), 053001, 2018, DOI: 10.1117/1.JEI.27.5.053001. [Link](#)
3. **M. Jaleed Khan**, A. Yousaf, N. Javed, S. Nadeem, K. Khurshid, "Automatic Target Detection in Satellite Images using Deep Learning", *Journal of Space Technology (JST)*, 7(1), 2017. [Link](#)
4. S. Ullah, L. Hasan, A. A. Khan, R. Narmeen, **M. Jaleed Khan**, Abdullah, A. Shehzad, "An FPGA based Fault-tolerant Payload Processing Unit for Pakistan National Student Satellite-1", *Journal of Space Technology (JST)*, 5(1), 2015. [Link](#)
5. **M. Jaleed Khan**, A. Yousaf, K. Khurshid, F. Shafait, A. Abbas, "A Spatial-Spectral Hybrid Convolutional Architecture for Automated Ink Mismatch Detection in Hyperspectral Document Images", *International Journal on Document Analysis and Recognition* (Under Review)
6. **M. Jaleed Khan**, M. J. Khan, A. Yousaf, N. Javed, K. Khurshid, K. Khurshid, "Size Invariant Handwritten Character Recognition using Single Layer Feedforward Backpropagation Neural Networks", *Wiley ETRI Journal*. (Under Review)
7. A. Yousaf, M. S. Hanif, **M. Jaleed Khan**, K. Khurshid, Mahboob, "A Robust and Computationally Efficient Online Image Stabilization Framework based on Adaptive Dual Motion Vector Integration", *IET Computer Vision*. (Under Review)
8. S. Saleem, **M. Jaleed Khan**, K. Khurshid, M. S. Hanif, "Crowd density estimation in still images using multiple local features and boosting regression ensemble", *Neural Computing and Applications: Special Issue on Recent Advances in Pattern Recognition and Artificial Intelligence*. (Under Review)
9. M. Siddhu, F. Farooqui, M. Younis, **M. Jaleed Khan**, K. Khurshid, "A Comparative Study of Learning Based, Query-By-Example Word Spotting of Printed Urdu Text", *International Journal of Pattern Recognition and Artificial Intelligence*. (Under Review)

### CONFERENCE PAPERS

1. **M. Jaleed Khan**, A. Yousaf, K. Khurshid, A. Abbas, F. Shafait, "Automated Forgery Detection in Multispectral Document Images using Fuzzy Clustering", *13<sup>th</sup> IAPR International Workshop on Document Analysis Systems (DAS)*, Apr. 2018, Vienna, Austria. 10.1109/DAS.2018.26 [Link](#)
2. G. Abbas, **M. Jaleed Khan**, R. Qureshi, K. Khurshid, "Scope of Video Magnification in Human Pulse Rate Estimation", *IEEE International Conference on Machine Vision and Information Technology (CMVIT)*, Feb. 2017, Singapore. DOI: 10.1109/CMVIT.2017.28. [Link](#)
3. S. Charran, **M. Jaleed Khan**, K. Khurshid, "Breast Cancer Detection in Mammograms using Convolutional Neural Network", *IEEE International Conference on Computing, Mathematics and Engineering Technologies*, Mar. 2018, Pakistan. DOI: 10.1109/ICOMET.2018.8346384 [Link](#)
4. A. Yousaf, **M. Jaleed Khan**, M. Imran, K. Khurshid, "Benchmark Dataset for Offline Handwritten Character Recognition", *IEEE International Conference on Emerging Technologies (ICET)*, Dec 2017, Islamabad. DOI: 10.1109/ICET.2017.8281752. [Link](#)
5. A. Yousaf, **M. Jaleed Khan**, K. Khurshid, M. S. Hanif, "Real Time Video Stabilization Methods in IR domain for UAVs – A Review", *IEEE International Conference on Aerospace Science & Engineering (ICASE)*, Nov. 2017, Islamabad. 10.1109/ICASE.2017.8374287 [Link](#)
6. S. Ullah, **M. Jaleed Khan**, L. Hasan, A. A. Khan, A. Khan, M. Yahya, Abdullah, "Design and Development of Fault-tolerant and Dynamically Reconfigurable PPU for PNSS-1", *International Conference on Space (ICS)*, Sept. 2014, Islamabad.

### PEER REVIEWER OF JOURNALS

- IET Image Processing
- IET Signal Processing
- SPIE Journal of Electronic Imaging
- SPIE Journal of Applied Remote Sensing
- Elsevier Infrared Physics and Technology

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### TEACHING

#### UNDERGRADUATE COURSES TAUGHT

- Digital Image Processing
- Mobile Application Development
- Digital Logic Design

#### TRAININGS AND WORKSHOPS DELIVERED

- One day hands-on workshop on Deep Learning at Institute of Space Technology (2018).
- One day hands-on workshop on Hyperspectral Image Analysis at Institute of Space Technology (2018).
- Two months training on Android Application Development at Inductin (2016).

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### CERTIFICATIONS

- MATLAB Certification, Emerging Technologies Research Lab, Rawalpindi, PK. (2013)
- Python Programming Certification, Datacamp Inc. (2017)
- Microsoft Office Specialist Certification, Microsoft Corp. (2017)
- General Management Skills, NINVAST, Islamabad, PK. (2016)

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### ACHIEVEMENTS

- Won Image Processing Competition in AirTech - All Pakistan Technical Olympiad 2017.
- Stood 2nd in College, among top 30 in Pakistan in the International Kangaroo Mathematics Contest (IKMC) 2010 at Student Level.
- Won table tennis and English essay writing competitions in college.
- Won speed programming competition at FAST National University, Peshawar.
- Won All-Peshawar Dramatics Competition at Institute of Management Sciences, Peshawar.

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### VOLUNTEER WORK

- Working as Media & Marketing Manager in [Pakistani Pattern Recognition Society](#).
- Worked as Program Coordinator in the [1st PPRS Autumn School on Deep Learning](#) in Sept-Oct 2018.
- Worked as Brand Ambassador in Entrepreneurship Development Institute (EDI) in 2015-16.
- Worked as Organizer in [Digital Youth Summit \(DYS\)](#) 2015.

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### REFERENCES

- Dr. Khurram Khurshid (khurram.khurshid@ist.edu.pk)  
Associate Professor, Department of Electrical Engineering, Institute of Space Technology, Pakistan.
- Dr. Abdur Rahman M. Maud (a.rahman@ist.edu.pk)  
Assistant Professor, Department of Electrical Engineering, Institute of Space Technology, Pakistan.