


<p style="text-align: center;">Dr. Najeed Ahmed Khan (HEC Approved Supervisor)</p> <p style="text-align: center;">Caretaker: MoST Chair Professor</p> <div style="text-align: center;">  </div>	
Postal Details	Department of Computer Science & Information Technology, NED University of Engineering & Technology Karachi Pakistan.
Residence	B-120 Block 1, Gulistan-e-Jouhar. Karachi Pakistan.
Phone	+92 21 99261261 Ext. 2502, 2503, Direct: +92 92 99261298
Cell	+92 3002171407
D.O.B	19, March 1966
Nationality	Pakistani
Marital Status	Married
E-Mail	najeed@hotmail.com , najeed@neduet.edu.pk

Specializations:

Artificial Intelligence (Computer Vision)

Objective: Technology contributions to the world for the benefit of humanity.

Membership:

- Senior Member of International Association of Computer Science and Information Technology (IACSIT). (**Membership NO.: 80345526**)
- Member Asian Council of Science Editors (**ACSE**).
- Professional Member - **Association of Computing Machinery (ACM)**.

Editor Journal

- NED University Journal of Research – Applied Sciences (ISSN 1023-3873)
- **Reviewer:** International Journal of Computer Theory and Engineering (IJCTE). (ISSN: 1793-820)
- **Reviewer:** International Journal of Advanced Computer Science and Applications (IJACSA), ISI index. ISSN: 2156-5570

- **Book Review:** Digital Logic Primer-A Practical, under Textbook & Monograph Writing Scheme- HEC Pakistan, 2015.
- **Member Technical Program Committee:** 17th IEEE Mediterranean Electro-technical Conference, April 2014 Beirut, Lebanon

Education:

- 2011: PhD Computer Vision (University of Leeds, United Kingdom)
- 1996: M.Sc. Computer Science, (CGPA 3.2), NED University of Engg. & Technology, Karachi, Pakistan.
- 1990: M.Sc. Applied Mathematics (First Class and First position, Gold Medalist), University of Karachi, Pakistan.
- 1987: Diploma of Associate Engineer (Electronics) First Division, Karachi, Pakistan

Prizes / Medals/Awards/Honors

- **Gold Medalist:** Secure First Class and First position in M Sc. Applied Mathematics 1990.
- Member National Curriculum Revision Committee, Higher Education Commission- Pakistan, since April 2017
- Member Selection Board, SMI University Karachi, since January 2016.
- **HEC Focal Person (Sindh region)-** Under National Research Program for Universities (NRPU).
- **HEC-** Technology Development Fund projects Reviewer.
- Pakistan – United States Science and Technology Cooperation Program 2016-17
Proposals reviewer.

Work Experiences:

Current Positions:

- **Since August 2011 to date** Associate Professor, Department of Computer Science & Information Technology, NED University of Engineering & Technology Karachi, Pakistan.
- HEC approved supervisor

Executive Officer and Caretaker: MoST Chair Professor.

Centre for Software Research and Development (**CSDR**), at NED University of Engineering & Technology, MoST Endowment - Ministry of Science & Technology, Pakistan.

HEC Focal Person (Sindh region)- Under National Research Program for Universities (**NRPU**).

Previous positions:

- **From May 2005 to August 2011** Assistant Professor of Computer Science, Department of Computer Science and Information Technology, NED University of Engineering & Technology Karachi, Pakistan.
- **From Jan 1997 to May 2005** Lecturer of Mathematics, Department of Mathematics, NED University of Engineering & Technology Karachi, Pakistan.
- **From Sep 1990 to Jan 1997** Lecturer of Mathematics Govt. Degree College, Government of Sind, Education Department Karachi, Pakistan

List of Research Publications:

Journal Publications:

1. Najeed Ahmed Khan, Shehnaila Zardari, Asif Ahmed Shaikh, Masood Rafi, Sana Shaukat, Computer Vision Based Displacement Measurement of Shake Table, International Journal of Computer Science & Network Security, Vol.17, No.5 2017.
2. Najeed Ahmed Khan, M. Ajmal Sawand, Maryam Qadeer, Anum Owais, Sarah Junaid, Phunparah Shahnawaz, Autism Detection using Computer, International Journal of Computer Science & Network Security, Vol.17, No.4 2017.
3. Najeed Ahmed Khan, Umair Amin, Waseemullah, Muhammad Umer. Unsupervised Commercial Identification in Videos. International Journal of Advanced Computer Science and Applications (IJACSA), ISI. ISSN: 2156-5570 Volume 8 Issue 2, pp 127-133, March 2017.
4. Najeed K., Hassan P., Arsalan A., Aysha, Sania, Unsupervised Identification of Malaria Parasites using Computer Vision, Pakistan Journal of Pharmaceutical Sciences (PJPS), ISI, ISSN:1011-601x, Vol.30, No.1, January 2017 (Impact Factor: 0.682). pp 223-228
5. Engr. Maria Sohail, Najeed Ahmed Khan, Shariq M. Khan, Domineering Analysis & Mitigation of IP-SEC VPN Using GNS3, International Journal of Computer Science & Network Security, Vol.17, No.4 2017.
6. Ajmal S. M. Najeed A. K., Privacy and Security mechanisms for eHealth monitoring systems, International Journal of Advanced Computer Science and Applications (IJACSA), ISI index. ISSN: 2156-5570 , Volume 8 No. 4, April 2017.
7. Siva Kumar Subramaniam, Shariq M. Khan, Najeed A. Khan, TCP Timeout Mechanism for Optimization of Network Fairness and Performance in Multi-Hop Pipeline Network, International Journal of Computer Science & Network Security, Vol.17, No.5 2017.

8. Shariq M. Khan, Mubashir M. Khan, Najeed A. Khan, Route Constancy and Energy Aware Routing Protocol for MANET, International Journal of Computer Science & Network Security, Vol.17, No.5 2017.
9. Siva Kumar Subramaniam, Shariq M. Khan, Najeed A. Khan, Enhancing Pipeline Network Performance Using Dual Interleaving Cluster Head Routing Protocol, International Journal of Computer Science & Network Security, Vol.17, No.4 2017.
10. Shariq M. Khan, Mubashir M. Khan, Najeed A. Khan , Waseemullah, Efficient and Reliable Reactive Routing Protocol for Mobile Ad-Hoc Network, International Journal of Computer Science & Network Security, Vol.17, No.4 2017.
11. M. Ajmal Sawand, Najeed Ahmed Khan, Abdul Rehman Soomrani and Sheraz Ali, Energy efficient e-Healthcare system, International Journal of Computer Science & Network Security, Vol.17, No.4 2017.
12. Engr. Maria Abdullah, Najeed Ahmed Khan, Intelligent System Using MI in E-Learning Environment, Journal of Multidisciplinary Engineering Science and Technology, ISSN: 2458-9403 Volume. 4, Issue. 4, April – 2017.
13. Najeed K., Omer A. S., Ajmal S. M., Umer Farooq U. M., Tracking of Occluded and Cluttered Objects. International Journal of Computer Science and Information Security (IJCSIS), ISI, ISSN: 1947-5500, Vol. 14 No. 11 (Impact Factor: **0.519**). December 2016.
14. Najeed K., Saman A, Shehnila Z, Yusra A, Sehrish S.,Saba Hassan Shamim Unsupervised Cancer Detection using Computer Vision. International Journal of Computer Science and Information Security (IJCSIS), ISI, ISSN: 1947-5500, (Impact Factor: **0.519**). Volume 14, Issue 10, p- 724-732, October 2016.
15. Shehnila Z., Najeed K., Mohsin Ali Memon., Systematic Analysis of Risks in Cloud Architecture, International Journal of Computer Science and Information Security (IJCSIS), ISI, ISSN: 1947-5500, (Impact Factor: **0.519**). Vol. 14 No. 11 December 2016.
16. Najeed K., Ajmal S. M., Marium H., Arwa K., Mehak T., Real Time Monitoring Of Human Body Vital Signs Using Bluetooth & WLAN. International Journal of Advanced Computer Science and Applications (IJACSA), ISI. ISSN: 2156-5570 Volume 7 Issue 10, pp 210-216, October 2016.
17. Najeed K., Shehnila Z., Shabeen K., Sehrish S., A Method for Tumour Detection on Brain MRI Image by implementing SVM, International Journal of Computer Science and Information Security (IJCSIS), ISI, ISSN: 1947-5500, (Impact Factor: **0.519**). pp. 154-160 Vol. 14 No. 8 AUG 2016.
18. Shehnila Z., Najeed K., Ajmal S. M., Dealing with Cloud Adoption Risks: a Goal-Oriented Requirements Negotiation Approach, International Journal of

Computer Science and Information Security (IJCSIS), ISI, ISSN: 1947-5500, (Impact Factor: **0.519**). Vol. 14 No. 9, p 884-887, September 2016.

19. Ajmal S. M., Najeed K., Shehnaila Z., Combining Weak DFAs to Build Strong Hypothesis Using AdaBoost Classification Algorithm, International Journal of Computer Science and Information Security (IJCSIS), ISI, ISSN: 1947-5500, (Impact Factor: **0.519**). Vol. 14 No. 9, September 2016, p. 894-899
20. Najeed K., David C. H., Unsupervised learning of Appearance classes from Video, NED University Journal of Research – Applied Sciences, (ISSN: 1023-3873), Vol. 11, No.2, 2014, pp 15-25.
21. Najeed K, Mohiuddin S. S, Baig M. M, Tawha A. M. Statistical Analysis of Constraints Acquiring Higher Secondary Education, International Journal of Database Theory and Application Vol.7, No.2 (2014), pp.141-154.
22. Najeed K., Hyder, H., “Identification of suspicious activities using Kalman filter”, in INFORMS international Conference (June 24-28, 2006), Hong Kong.
23. Najeed A Kahn, Shariq M Khan, Sana Jamaluddin, Urooj Iltifat, Use Hand Gesture to Write in Air Recognize with Computer Vision, , International Journal of Computer Science & Network Security, Vol.17, No.5 2017.

Conference Publications:

24. Najeed K., Hassan P., Arsalan A., Aysha, Sania, Unsupervised Identification of Malaria Parasites using Computer Vision, IEEE-11th International Joint Conference on Computer Sciences and Software Engineering (JCSSE 2014), Thailand.

Training Course/Seminar/Workshop Participation

- Arranged, 1st International Conference on Innovations in Computer Science & Software Engineering, 15-16 December 2016 at NED University, Karachi in collaboration with HEC- Pakistan
- Arranged, 3rd MOS certification Training, 16-20 May 2016 at NED University, Karachi in collaboration with HEC and Microsoft- Pakistan.
- IT Tools for Good Governance – HEC training, 25th - 29th August 2014.
- ‘Literature Review Made Easy for Researcher’- International Research Workshop, 7-8th November 2014, Organized by Research Centre for Training & Development.
- Two-days Training Workshop on Faculty Development and Capacity Building to Promote Technology Entrepreneurship in Pakistan- 8th & 9th April 2014 @ IBA-CED Main Campus, Karachi, conducted by Dr. Gideon Maas (Coventry University, United Kingdom) and Dr. Shahid Qureshi (IBA-CED, Karachi) , sponsored by British Council.
- One-day Training Workshop Fundamentals of Intellectual Property (IP) at NED

University, Karachi, 25th September 2013.

- Two-day Seminar on Disaster Risk Management, at NED University, Karachi, 20th & 21th September 2011.
- 14th IEEE International Multi-topic Conference 2011, 22-24 December 2011, Sir Syed University of Engineering & Technology, Karachi, Pakistan.
- Arrange & attended Two-day Seminar on “Creation of an Intellectual Property Culture in Pakistan” at NED University of Engg.& Technology, Pakistan
- Attended, International Workshop on “Computational Mathematics”, COMSATS, Islamabad, Pakistan.
- Writing Scientific Papers, a one-day workshop by Dr. Simon Silver and Dr Lee Phung of University of Illinois, Dr. Phil Warner of Cranfield University UK, December 2005, at University of Karachi, Pakistan.
- Digital Image Processing, a seven-day course by D. Uvais Qidwai of University of Tulane, Louisiana, USA, June 2005 at NED University.
- Introduction to Matlab, a two-day workshop by Dr. Kamran Siddiqui of University of Concordia, Montréal Canada, January 2006, at NED University Karachi, Pakistan.

Special Trainings

- IBM Teachers Training Certification
- Training HP-Unix

Invited talks/speeches

Chair session:

14th IEEE International Multi-topics Conference 2011
Sir Syed University of Engineering & Tech, Karachi - Pakistan,

Member NED University Legislative bodies:

- Elected member Senate & Syndicate, from Feb 2003 - May 2005.
- Elected member Senate & Syndicate, from August 2005 - May 2006.
- Elected member Senate, from September 2013 - to date.

Designed and developed.

- Designed and developed, prospectus for Master of Computer Science and Information Technology (MCIT) degree program at Department of Computer Science & Information Technology, NED University of Engineering & Technology Karachi, Pakistan, August 2005
- E-Test software, an online web based test software.
- Virtual Tour- NED University of Engineering & Technology Karachi, Pakistan.
- Software for Anti-car theft (in progress)
- Invigilation Management System.

Supervise:

- **03 PhD Thesis (in progress).**
 1. Title: Unsupervised learning of street traffic patterns for anomaly detection (In Progress).

2. Title: Unsupervised Semantic Analysis of TV Commercial Videos.
3. Title : Data mining and structural analyses of various antigens from HCV

Master Dissertation (Completed):

- Dissertation Master by research (9- credited hours)
 1. Title: Automated Classification of histological slides Based on Identification of Tumour Cells. year 2013, Student Name: Yusra Adnan.
- **Independent Study projects (Completed):** (6- credited hours)
 1. Title: Building displacement measurement using digital image processing, year 2012, Student name: Sana Shukat
 2. Title: Automatic traffic density estimation, 2012, Student name: Hira Shahid
 3. Title: Analysis of factors affecting Higher Secondary Education, year 2013, Student name: *Syed Shah Sultan Mohiuddin*
 4. Title: Unsupervised segmentation of semantic videos, year 2014. Student name: M Umair
 5. Title: Tracking of occluded and cluttered objects, year 2014, Student name: *Omer Ahsan*
 6. Title: Brain tumor identification using computer vision, year 2015, Student name: Ms. Shabeen
- **Independent Study projects (in progress):** (6- credited hours)
 1. Criminal Identification by Voice Recognition
 2. A Portable 3D Scanner using Leap Motion.

Funded Projects:

Project Title	Donor	Amount	Team Members
Disaster Management System Development. To review and formulate report for development of 'Disaster Management System' for Pakistan	National ICT R&D, Ministry of Information Technology, Pakistan	4 Million PKR	Prof. Sarosh H. Lodi, Prof Dr. Masood Rafi, Dr. Najeed Ahmed Khan
E-Conference Table	National ICT R&D, Ministry of Information Technology, Pakistan	0.074 Million PKR	Dr. Najeed Ahmed Khan (PI)
Evaluate project: Procurement performance management system	Reform Support Unit, Edu. and Literacy deptt., Govt. of Sindh under the World Bank	0.175 Million PKR	Dr. Najeed Ahmed Khan

Areas of Interest

- Artificial Intelligence
- Computer Vision
- Image Processing
- Operation Research
- Linear Algebra
- Advanced Calculus

- Operating System
- Advanced Computer Architecture
- Advanced Algorithm Analysis
- Differential Calculus
- Numerical Methods
- Advanced Numerical Analysis