



Curriculum Vitae

1. Name: Dr. Attaullah Khawaja

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2. Education:

Degree	Discipline	Institution	Year
Bachelor of Engineering	Electrical Engineering	MUET -Pakistan	1993
Master of Engineering	Electrical Engineering	NEDUET -Pakistan	2002
PhD	Electrical Engineering	BIT, Beijing-China	2007

3. Academic experience:

Institution	Rank	Title	Dates Held	FT/PT
NEDUET, Karachi Pakistan	Professor	Chairman	January 2020 till date	FT
NEDUET, Karachi Pakistan	Professor	Professor	June 2018	FT
KKU, Abha KSA	Associate Prof.	Head of Quality	Sep 2015-June 2018	FT
NEDUET, Karachi Pakistan	Professor	Chairman	2010/2013-2015	FT
NEDUET, Karachi Pakistan	Director	CMPP	2011-2013	
NEDUET, Karachi Pakistan	Associate Prof.	M.Engg. Coord/ Co-Chairman	2007-2011	FT
NEDUET, Karachi Pakistan	Assistant Prof.	Assistant Prof.	2000-2007	FT
NEDUET, Karachi Pakistan	Lecturer	Lecturer	1997-2000	FT

4. Non-academic experience:

Company	Title/Position	Description	Dates held	FT/PT
J&A, IBRD /OECD Japan Consulting Engineers, Pakistan	Junior Engineer	Planning, Designing, Execution of Village Electrification	April 1994-1997	FT

5. Certifications or professional registrations

- **Power generation and transmission** a three days training program Organized by NED University of engineering and technology in collaboration with PETROMAN
- **Operations management for engineers** a seven days training event organized by NIPA in collaboration with center for continuing engineering education NED University.
- **Technical English language course** one month under British council ODA/Project. One-Day Video Conferencing Workshop-Cum-Training Course, November 03, 2007, LEJ National Science Information Center University of Karachi.
- **One-Day Video Conferencing Workshop-Cum-Training Course**, November 03, 2007, LEJ National Science Information Center University of Karachi.
- **International conference on Telecom and IT-ICIT, August 11-12, 2008, Expo centre Karachi.**
- **IEEEEP 24th Multi topic International Symposium 2009, April 08, 2009** at Pearl Continental Hotel, Karachi.
- **International Conference on Image and Graphics September 21-23, 2009, Xi'an, China.**
- **2nd International Conference on Computer Engineering and Applications ICCEA 2010, Indonesia, March 19-21, 2010.**
- **2011 International Conference on Machine Learning and Computing (ICMLC 2011) held on February 26-28, 2011, in Singapore.**
- **IEEEEP 26th Multi topic International Symposium 2011, March 16-17, 2011 at Pear Continental Hotel, Karachi.**
- **International Conference on Modeling, Simulation and Control, (ICMSC 2010, November 2-4, 2010 Cairo, Egypt).**
- **IEEE International Conference on Signal and Image Processing Applications (ICSIPA 2011), 16 - 18 November, 2011, Kuala Lumpur, Malaysia.**
- **4th International Conference on Computational Intelligence, Communication Systems and Networks” (CICSyN-2012), 24-26 July, 2012, Pukhet Thailand.**

6. Current membership in professional organizations

- Member PEC (Membership # ELECT-11468)
- Member IEEE (Membership # 90414417)
- Member IACSIT (Membership # 80340429)
- Member IAE (Membership # 113196)

7. Honors and awards:

IDEAL IT Excellence Award 2013

8. Service activities (within and outside of the institution)

Chairman, Electrical Engg. Deptt.	January 2020 till date
Professor	2018
Associate Professor and Head of Quality Committee, CNE, KKU	2015-2018
Chairman/HoD at NEDUET	2013-2015
Co-Chairman/HoD at NEDUET	2010-2011
Director CMPP	2011-2012
M.Engg. Coord at NEDUET	2007-2010

Courses taught / teaching

Communications Stream	Power Stream
-Signals and Systems -Probability and Statistics for Engineers -Information and coding Theory -Digital Communication Systems -Wireless Communications -Optical Fiber Communications	-Principles of Electricity and Magnetism -Electrical technology fundamentals -Electrical power distribution and utilization -Electrical power system analysis -Electrical power system protection

Supervised Masters Projects:

- An Analytical Approach for Optimizing Backhaul Capacity in Mobile Networks Using MPLS
- Detection & Tracking of the Object in Crowded Scene with Multi-Camera Surveillance
- Image Processing with a specific focus on Early Tumor Detection
- LTE-Physical layer implementation and LTE Optimization through performance Evaluation (Regarding FR end Issues)
- 3D Volume Representation of Tumor
- Performance Evaluation of Evaluation of Energy efficient Medium access control protocol for wireless sensor Networks.
- Simulation and performance Analysis of wireless sensor Networks and the effects of channel parameters on system behavior
- Implementation of Advance ENCRYPTION standard (AES) on FPGA
- Comparative Analysis of ZTE soft switch and Huawei soft Switch

Supervising Three PhD Scholars.

9. Briefly list the most important publications:

1. "Comparison of the Classification of Printed Chinese Characters by adding different types of noise with the use of Neural Network" WSEAS Transactions on Signal Processing, Issue 5, Vol.2, May 2006, Greece (pp 799-804).
2. "GIS Based route guiding system for optimal path planning in disaster/ crisis management" 10th IEEE International Multitopic Conference 2006, INMIC 2006, Islamabad-Pakistan.
3. "Identical Visual Cues based Tracking system of Humanoid Robot" 2nd IEEE International Conference on Emerging Technologies- ICET 2006 Peshawar, Pakistan, 13-14 November 2006 (IEEE Cat. No.10.1109/ICET.2006.335921)
4. "Virtual Scene for Telerobotic Operation" 2nd IEEE International Conference on Emerging Technologies-ICET 2006 Peshawar, Pakistan, 13-14 November 2006. (IEEE Cat. No. 10.1109/ICET.2006.335977)
5. "A Neural Network based adaptive autopilot for marine applications" Proceedings of IEEE Conference on Cybernetics and Intelligent Systems (IEEE Cat. No. 06EX1248), Bangkok, Thailand June 8, 2006, p 6 pp. (EI Accession No.9231684)
6. "Average run length performance of CuSun control chart using Neural network" 10th IEEE International Multitopic Conference 2006, INMIC 2006, Islamabad-Pakistan
7. "Recognition of printed Chinese characters by using Neural Networks." 10th IEEE International Multitopic Conference 2006, INMIC 2006, Islamabad-Pakistan
8. "Collaboration of Teleoperated Multiple Humanoid Robots" Journal of "Dynamics of Continuous, Discrete and Impulsive Systems Series-B 2007 Canada", pp 381-385.
9. "Comparison of Control Approaches for Robot Manipulator" Journal of "Dynamics of Continuous, Discrete and Impulsive Systems Series-B 2007 Canada", pp 513-517.
10. "Geospatial Hazard Management System, a GIS and Geospatial DB Based Natural Hazard Mitigation System" WSEAS TRANSACTIONS on COMPUTERS Issue 4, Volume 6, Greece, pp 710-714, April 2007.
11. "Motion Planning of Humanoid Robot Arm for grasping task" IEEE International Conference on Emerging Technologies, ICET 2007, 12-13 Nov. 2007 Islamabad Pakistan Pages: 212-217.
12. "A Visual Humanoid Teleoperation Control for Approaching Target Object" Springer Link Book Series Communications in Computer and information Science (CCID Volume 15) Springer-Verlag Berlin Heidelberg 2008", pp.244-251.
13. "Firmware and Hardware Design of a Novel Door Locking System", IEEE SouthEastCon 5-8 March, 2009, Atlanta, GA, USA.
14. "Multi-camera based Human Tracking with Non-Overlapping Fields of View" International Conference on Image and Graphics September 21-23, 2009, Xi'an, China.
15. "Design of a 4-Channel 16-Bit Solid State Drive" International Conference on IP-Embedded Systems, IP - ESC 2009 Grenoble, France, December 01-03, 2009.
16. "Robotic Arm Actuation with 7 DOF using Haar Classifier Gesture Recognition", Proceedings of the 2nd International Conference on Computer Engineering and Applications ICCEA 2010, Indonesia, March 2010.
17. "Human Robot Collaboration Using A Game Theme", Proceedings of the 2nd International Conference on Computer Engineering and Applications ICCEA 2010, Indonesia, March 2010.
18. "Keyless Car Entry through Face Recognition Using FPGA" 2010 International Conference on Future Information Technology and Management Engineering (FITME 2010), Changzhou, China, October 9-10, 2010.
19. "FPGA Based Digital Fuel Gauge" 2010 International Conference on Future Information Technology and Management Engineering (FITME 2010), Changzhou, China, October 9-10, 2010
20. "An Analytical Approach for Optimizing Backhaul Capacity in Mobile Networks Using MPLS" 2010 International Conference on Modeling, Simulation and Control, (ICMSC 2010, November 2-4, 2010 Cairo, Egypt).

21. "Image Processing with the Specific Focus on Early Tumor Detection", 2011 3rd International Conference on Machine Learning and Computing (ICMLC 2011) 26-28 February, 2011, Singapore.
22. "3D Volume Representation of Brain Tumor Using Image Processing" 2011 IEEE International Conference on Signal and Image Processing Applications (ICSIPA 2011), 16 - 18 November, 2011, Kuala Lumpur, Malaysia.
23. "3D Representation of Human Skull bearing tumor using Image Processing" 4th International Conference on Computational Intelligence, Communication Systems and Networks" (CICSyN-2012), 24-26 July, 2012, Phuket Thailand.
24. "Attack-Aware Dynamic Upstream Bandwidth Assignment Scheme for Passive Optical Network" 19-09-2019, Journal of Optical Communications, 2019.