

DR. ALLAH DITTA

Ph.D. Computer Science and Technology

Tenured Associate Professor (IT)

Coordinator/Head of Department

HEC Approved Supervisor

Incharge UEIT Society

Member AI Club

Department of Information Sciences

University of Education, Lahore.

Google Scholar:

<https://scholar.google.com.pk/citations?user=I04u7MsAAAAJ&hl=en>

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SCIENTIFIC VITA

2013-2017	Ph.D.	Computer Science and Technology	Beijing Key Laboratory of Systems and Web Lab, Beijing University of Technology, China.
2010-2012	M.Sc.	Information Technology	Quaid-i-Azam University, Islamabad, Pakistan.
2007-2009	B.Sc.	Math, Statistics	Bahauddin Zakariya University of Multan, Pakistan.
2005-2007	HSSE	Pre-Engineering	Lahore Board, Pakistan.
2003-2005	SSE	Science	Lahore Board, Pakistan.

WORK EXPERIENCE

Sep. 27, 2024 ~ to date	Tenured Associate Professor (IT) Department of Information Sciences, Division of Science & Technology, University of Education, Lahore
September 20, 2025 ~ to date	Coordinator/Head of Department Department of Information Sciences, Division of Science & Technology, University of Education, Lahore
Sep. 27, 2018 ~ Sep. 26, 2024	Assistant Professor (IT) – TTS Department of Information Sciences, Division of Science & Technology, University of Education, Lahore
Oct.09, 2017 ~ Sep. 26, 2018	Assistant Professor of Computer Science – IPFP Department of Information Sciences, Division of Science & Technology, University of Education, Lahore
Jan.02, 2019 ~ March 12, 2020	Head of Department (Acting) Department of Information Sciences, Division of Science & Technology, University of Education, Lahore
April 2023 ~ to date	Incharge UEIT Society Department of Information Sciences, Division of Science & Technology, University of Education, Lahore
December 2020 ~ to date	External Member of Board of Studies (BoS) University of Sialkot, Pakistan

April 2019 ~ to date	Departmental Member of Board of Studies (BoS) Department of Information Sciences, Division of Science & Technology, University of Education, Lahore
June 23, 2023 ~ to date	Member of Artificial Intelligence Club (AIC) Department of Information Sciences, University of Education, Lahore

RESEARCH PUBLICATIONS

* *HJRS Category and IF at the time of Publication*

Publication Title	HJRS Category	Total IF 86.135
1. Ifrah Naeem, Allah Ditta , Tehseen Mazhar, Muhammad Anwar, Mamoon M. Saeed, and Habib Hammam (2025). Voice Biomarkers as Prognostic Indicators for Parkinson's Disease Using Machine Learning Techniques, Published online, April 09, 2025 in Scientific Reports. DOI: https://doi.org/10.1038/s41598-025-96950-3	W ISSN: 2045-2322	3.8
2. Fajar Walayat, Allah Ditta , Zafar Iqbal Karmani, Bilal Shoaib, Tehseen Mazhar, M Adnan Khan, and Rashid A. Saeed, Deep Learning-Based Analysis of Mammographic Images for Breast Cancer Detection Using Transfer Learning, Published in Healthcare Technology Letters, on October 23, 2025: https://authorservices.wiley.com/index.html#dashboard	W ISSN: 2053-3713	3.3
3. Qazmi, S. I. A., Chakkaravarthy, M., Zahra, N., Aslam, F., Ditta, A. , Azher, M., & Siddiq, A. (2024). Unmasking the Deception: A Focused Survey of Machine Learning Techniques for Fake Review Detection. Lahore Garrison University Research Journal of Computer Science and Information Technology, 8(4), 40-65.	Y ISSN: 2665-9174	HEC Scopus
4. Ditta, A. , Ahmed, M. M., Mazhar, T., Shahzad, T., Alahmed, Y., & Hamam, H. (2024). Number Plate Recognition Smart Parking Management System Using IoT. Measurement: Sensors, 101409. DOI: https://doi.org/10.1016/j.measen.2024.101409	Y ISSN: 2665-9174	HEC Scopus
5. Rizwana Naz Asif, Allah Ditta , Hani Alquhayz, Sagheer Abbas, (Senior Member, IEEE), Muhammad Adnan Khan (Senior Member, IEEE), Taher M. Ghazal (Member, IEEE), and Sang-Woong Lee (Senior Member, IEEE), <i>Detecting Electrocardiogram Arrhythmia Empowered with Weighted Federated Learning</i> , IEEE Access, Published, December 26, 2023, Impact Factor: 3.4 https://ieeexplore.ieee.org/abstract/document/10374338	W ISSN: 2169-3536	3.4
6. Ditta, A. , Azeem, M., Naseem, S., Rana, K. G., Khan, M. A., & Iqbal, Z. (2022). A secure and size efficient algorithm to enhance data hiding capacity and security of cover text by using Unicode. Journal of King Saud University-Computer and Information Sciences, 34(5), 2180-2191. Pp, 2180-2191 Published, Online 31, May 2022, Impact Factor: 13.473 https://www.sciencedirect.com/science/article/pii/S1319157820304249	W ISSN: 2213-1248	13.473
7. Nadia Tabassum, Allah Ditta , Tahir Alyas, Sagheer Abbas, Hani Alquhayz, Natash Ali Mian, and Muhammad Adnan Khan, Prediction of Cloud	W ISSN:	3.860

Ranking in a Hyperconverged Cloud Ecosystem using Machine Learning, Computers, Materials & Continua, 67(3), 2021, Published, 01 March 2021, Impact Factor: 3.860 , Pp, 3129-3141, https://cdn.techscience.cn/ueditor/files/TSP_CMC_67-3/TSP_CMC_14729/TSP_CMC_14729.pdf	1546-2218	
8. Saqib, S., Ditta, A. , Khan, M. A., Kazmi, S. A. R., & Alquhayz, H. (2021). Intelligent dynamic gesture recognition using CNN empowered by edit distance, Computers, Materials & Continua, 66(2), 2021, Published, 28 September 2020, Impact Factor: 3.860 , Pp, 2061-2076, https://shorturl.at/aAF01	W ISSN: 1546-2218	3.860
9. Faheem, M. R., Anees, T., Hussain, M., Ditta, A. , Alquhayz, H., & Khan, M. A. (2023). Indexing in WoT to Locate Indoor Things. IEEE Access, Vol. 11, 53497 - 53517 Published, May 3, 2023, Impact Factor: 3.476 , Pp, 53497-53517, https://ieeexplore.ieee.org/abstract/document/10114802	W ISSN: 2169-3536	3.476
10. Mazhar, T., Haq, I., Ditta, A., Mohsan, S. A. H., Rehman, F., Zafar, I., ... & Goh, L. P. W. (2023, February). The role of machine learning and deep learning approaches for the detection of skin cancer. In Healthcare, (Vol. 11, No. 3, p. 415). MDPI. (1-22 Pages), Impact Factor: 3.160, Pp, 01-22, https://www.mdpi.com/2227-9032/11/3/415	W ISSN: 2213-0772	3.160
11. Khan, T. A., Abbas, S., Ditta, A. , Khan, M. A., Alquhayz, H., Fatima, A., & Khan, M. F. (2020). IoMT-based smart monitoring hierarchical fuzzy inference system for diagnosis of COVID-19. Computers, Materials and Continua, 65(3), 2591-2605., Published, 23 August 2020, Impact Factor: 3.860 , Pp, 2591-2605 https://shorturl.at/mBW02	W ISSN: 1546-2218	3.860
12. Awan, I. A., Shiraz, M., Hashmi, M. U., Shaheen, Q., Akhtar, R., & Ditta, A. (2020). Secure framework enhancing AES algorithm in cloud computing. Security and communication networks, Vol. 2020, 1-16, Published, 01 Sep. 2020, Impact Factor: 1.968 , Pp, 1-16, https://www.hindawi.com/journals/scn/2020/8863345/	W ISSN: 1939-0122	1.968
13. Kanwal, A., Abbas, S., Ghazal, T. M., Ditta, A. , Alquhayz, H., & Khan, M. A. (2022). Towards parallel selective attention using psychophysiological states as the basis for functional cognition. Sensors, 22(18), 7002. Published 15 September 2022, Impact Factor: 3.847, Pp, https://www.mdpi.com/1424-8220/22/18/7002	W ISSN: 1424-8220	3.847
14. Zafar, B., Naqvi, S. A. Z., Ahsan, M., Ditta, A. , Baneen, U., & Khan, M. A. (2022). Enhancing Collaborative and Geometric Multi-Kernel Learning Using Deep Neural Network, Computers, Materials and Continua, 2022, 72(3), 5099-5116, published 21 April 2022 Impact Factor: 3.860 Pp, 5099-5116, https://shorturl.at/eCDNS	W ISSN: 1546-2218	3.860
15. Javaid, K., Siddiqua, A., Naqvi, S. A. Z., Ditta, A. , Ahsan, M., Khan, M. A., & Mahmood, T. (2022). Explainable Artificial Intelligence Solution for Online Retail, Computers, Materials & Continua 2022, 71(3), 4425-4442, Published 14 January 2022, Impact Factor: 3.860, Pp. 4425-4442, https://cdn.techscience.cn/ueditor/files/cmc/TSP_CMC-71-3/TSP_CMC_22984/TSP_CMC_22984.pdf	W ISSN: 1546-2218	3.860

16. Siddiqua, A., Naqvi, S. A. Z., Ahsan, M., Ditta, A. , Alquhayz, H., Khan, M. A., & Khan, M. A. (2022). Robust length of stay prediction model for indoor patients, Computers, Materials & Continua 2022, 70(3), 5519-5536. Published 11 October 2021, Impact Factor: 3. 860 Pp. 5519-5536, https://shorturl.at/dikll	W ISSN: 1546-2218	3.860
17. Mahmood, T., Li, J., Pei, Y., Akhtar, F., Butt, S. A., Ditta, A. , & Qureshi, S. (2022). An intelligent fault detection approach based on reinforcement learning system in wireless sensor network, Journal of Supercomputing, 78(3), 3646-3675., Dated 03-08-2021, Impact Factor: 2.557 Pp. 3646-3675, https://link.springer.com/article/10.1007/s11227-021-04001-1	W ISSN: 1573-0484 0920-8542	2.557
18. Shaukat, Z., Ali, S., Farooq, Q. U. A., Xiao, C., Sahiba, S., & Ditta, A. (2020). Cloud-based efficient scheme for handwritten digit recognition. Multimedia Tools and Applications, Online Published, 11 August 2020, Impact Factor: 2.577 , Pp. 29537-29549, https://link.springer.com/article/10.1007/s11042-020-09494-1	W ISSN: 1380-7501	2.577
19. Wang, Y., Tan, J., Liu, Z., & Ditta, A. (2020). Lithium-ion Battery Screening by K-means with DbSCAN for Denoising. CMC-COMPUTERS MATERIALS & CONTINUA, 2020, 65(3), 2111-2122., Published, September 16, 2020, Impact Factor: 3. 860 , pp.2111-2122, https://shorturl.at/txGK9	W ISSN: 1546-2218	3.860
20. Khan, M. A., Abbas, S., Atta, A., Ditta, A. , Alquhayz, H., Khan, M. F., & Naqvi, R. A. (2020). Intelligent Cloud Based Heart Disease Prediction System Empowered with Supervised Machine Learning. Computers, Materials & Continua, 65(1), CMC-COMPUTERS MATERIALS & CONTINUA, 2020, 65(1), 139-151, Published, July 23, 2020, Impact Factor: 3. 860 , pp.139-151, https://shorturl.at/dgrG4	W ISSN: 1546-2218	3.860
21. Arshid, K., Hussain, I., Bashir, M. K., Naseem, S., Ditta, A. , Mian, N. A., ... & Khan, I. A. (2020). Primary user traffic pattern based opportunistic spectrum handoff in cognitive radio networks. Applied Sciences (Switzerland), 10(5), 1674, Impact Factor: 2.838 , pp. 1-19, https://www.mdpi.com/2076-3417/10/5/1674	W ISSN: 2076-3417	2.838
22. Khan, Z. A., Zubair, S., Alquhayz, H., Azeem, M., & Ditta, A. (2019). Design of momentum fractional stochastic gradient descent for recommender systems. IEEE Access, 7, IF = 3.476 , pp. 179575-179590, https://ieeexplore.ieee.org/abstract/document/8908716	W ISSN: 2169-3536	3.476
23. Ahmad, R., Zubair, S., Alquhayz, H., & Ditta, A. (2019). Multimodal speaker diarization using a pre-trained audio-visual synchronization model. Sensors, 19(23), 5163, Impact Factor: 3.847 , pp. 1-14, https://www.mdpi.com/1424-8220/19/23/5163	W ISSN: 1424-3210	3.847
24. Tsitaitse, T. J., Cai, Y., & Ditta, A. (2018). Secure self-healing group key distribution scheme with constant storage for SCADA systems in smart grid. Wireless Personal Communications, 101, Impact Factor: 2.017 , pp. 1749-1763, https://link.springer.com/article/10.1007/s11277-018-5789-z	W ISSN: 0929-6212	2.017

25. CAI, C., WANG, B., Ditta, A. , & YANG, Y. (2014). A Rational Secret Sharing Scheme against Coalition Based on Nash Equilibrium and Neighbor's Strategy. Chinese Journal of Electronics, 23(3), ISI Indexed , pp. 564-568, https://cje.ejournal.org.cn/article/id/8467	W ISSN: 1022-4653	1.019
26. Ditta, A. , Yongquan, C., Azeem, M., Rana, K. G., Yu, H., & Memon, M. Q. (2018). Information hiding: Arabic text steganography by using Unicode characters to hide secret data. International Journal of Electronic Security and Digital Forensics, 10(1), ISI Indexed , pp. 61-78. , https://www.inderscienceonline.com/doi/abs/10.1504/IJESDF.2018.089214	X ISSN: 1751-9128	---
27. Azeem, M., He, J., Ditta, A. , Akhtar, F., & Daudpota, S. M. (2020). A novel approach to secret data concealment with high cover text capacity and security. International Journal of Electronic Security and Digital Forensics, 12(1), ISI Indexed , pp 77-98, https://www.inderscienceonline.com/doi/abs/10.1504/IJESDF.2020.103878	X ISSN: 1751-9128	---
28. Chen Lei, Xiao Chuangbai, Yu Jing, Allah Ditta, Li Xueliang, Wang Zhenli (2017). Fault Recognition Based on Connected Component Dispersion. Journal of Beijing University Of Technology, Vol. 23 Issue 5, ISI Indexed , pp. 754-761, DOI: 10.11936/bjutxb2016060069, https://journal.bjut.edu.cn/bjgydxxb/cn/article/doi/10.11936/bjutxb2016060069		
29. Zaidi, A. R., Kazmi, S.A.R., Karmni, M.Z.I., Ditta, A., (2024). Formal Modeling of Evolving Systems using Petri nets Based Vocabulary. Lahore Garrison University Research Journal of Computer Science and Information Technology. https://doi.org/10.54692/lgurjcsit.2024.85585	Y ISSN: 2521-0122	HEC Scopus
30. Qazmi, S. I. A., Chakkaravarthy, M., Ditta, A., Aslam, F. (2024). User-Generated Content Analysis: Classification of Factors Affecting Customer Needs for E-commerce Recommender System. Lahore Garrison University Research Journal of Computer Science and Information Technology. https://doi.org/10.54692/lgurjcsit.2024.85579	Y ISSN: 2521-0122	HEC Scopus
31. Ditta, A. , Yongquan, C., Rana, K. G., Shanshan, K., Azeem, M., & Jean, T. (2015). Using different techniques of steganography deducting null cipher in plain text. International Journal of Wireless and Mobile Computing, 9(4), ISI Indexed , pp. 317-324, https://www.inderscienceonline.com/doi/abs/10.1504/IJWMC.2015.074050	Y ISSN: 1741-1092	---
32. Azeem, M., Yongquan, C., Ditta, A. , Rana, K. G., & Rajpoot, F. A. (2018). Information hiding: a novel algorithm for enhancement of cover text capacity by using Unicode characters. International Journal of Information and Computer Security, 10(4), ISI Indexed , pp. 437-453, https://www.inderscienceonline.com/doi/abs/10.1504/IJICS.2018.095357	Y ISSN: 1744-1765	---
33. Rana, K. G., Yongquan, C., Azeem, M., Ditta, A. , Yu, H., & Khuhro, S. A. (2018). Wireless ad hoc network: detection of malicious node by using neighbour-based authentication approach. International Journal of Wireless and Mobile Computing, 14(1), ISI Indexed , pp 16-24, https://www.inderscienceonline.com/doi/abs/10.1504/IJWMC.2018.090007	Y ISSN: 1741-1092	---

34. Kong, S., Cai, Y., Xue, F., Yu, H., & Ditta, A. (2018). Cloud outsourcing computing security protocol of matrix multiplication computation based on similarity transformation. International Journal of Wireless and Mobile Computing, 14(1), ISI Indexed, pp. 90-96., https://www.inderscienceonline.com/doi/abs/10.1504/IJWMC.2018.089984	Y ISSN: 1741-1092	---
35. Rana, K. G., Yongquan, C., Ditta, A. , Azeem, M., & Qasim, M. (2015). Circumventing sinkhole attack in ad hoc networks. International Journal of Wireless and Mobile Computing, 9(4), ISI Indexed, pp. 363-369, https://www.inderscienceonline.com/doi/abs/10.1504/IJWMC.2015.074049	Y ISSN: 1741-1092	---
36. Yu, H., Cai, Y., Kong, S., Xue, F., & Ditta A. (2016). An Efficient Public Auditing Scheme for Multi-Cloud Storage. International Journal of Security and Its Applications, 10(12), DOI: 10.14257/ijisia.2016.10.12.08, pp. 81-96 https://www.researchgate.net/publication/312257097_An_Efficient_Public_Auditing_Scheme_for_Multi-Cloud_Storage	ISSN: 2207-9629	---
37. Yu, H., Cai, Y., Kong, S., Xue, F., & Allah, D. (2016). Semi-quantum Key Distribution Protocol Based on Bell States. International Journal of Security and its Applications, 10(12), 97-110. https://www.earticle.net/Article/A298076	ISSN: 2207-9629	Scopus
38. Ditta, A. , Yongquan, C., Azeem, M., Rana, K. G., & Chen, L. (2016). Design and Implementation of the Skype Static Traffic Identifier by Analysis of the Skype Login Process over LAN. International Journal of Computer Science and Information Security, 14(8), pp. 683-693, https://shorturl.at/auBWx	ISSN: 1947-5500	---
39. Azeem, M., Yongquan, C., Rana, K. G., Shaukat, Z., & Ditta, A. (2019, April). A Secure and Size Efficient Approach to Enhance the Performance of Text Steganographic Algorithm. In 2019 11th International Conference on Measuring Technology and Mechatronics Automation (ICMTMA), IEEE Xplore, pp. 402-407, https://ieeexplore.ieee.org/abstract/document/8858607	International Conference	---
40. Chen, L., Yu, J., Ditta, A. , Xiao, C., Li, X., & Wang, Z. (2016, September). A new seismic data visualization method. In 2016 22nd International Conference on Automation and Computing (ICAC), IEEE Xplore, pp. 467-472, https://ieeexplore.ieee.org/abstract/document/7604964	International Conference	---
41. Rana, K. G., Yongquan, C., Azeem, M., Ditta, A. , & Yu, H. (2017, November). Detection of malicious node in wireless Ad Hoc network by using acknowledgement based approach. In Proceedings of the 2017 the 7 th International Conference on Communication and Network Security, pp. 76-80, https://shorturl.at/IFOX4	International Conference	---
42. Memon, M. Q., Jingsha, H., Aasma, A. Ditta. , & Rana, K. G. (2016). Dynamic integration of PL/SQL for complex queries. International Journal of Database Theory and Application, 9(10), pp. 351-362, https://shorturl.at/nstPR	ISSN: 20054270	---

43. Malik, M. I., Karmani, M. Z. I., Sarwar, N., Nasir, J., & Ditta, A. (2022, November). XSHM: Proposed Hybrid Process Modeling Technique from Scrum and XP for PSP and Medium Projects. In Engineering Software for Modern Challenges: First International Conference, ESMoC 2021, Johor, Malaysia, October 20–21, 2021, Revised Selected Papers, Cham: Springer International Publishing, Online 16 November 2022, (pp. 44-52), https://link.springer.com/chapter/10.1007/978-3-031-19968-4_5	International Conference	---
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FUNDED RESEARCH PROJECTS

2018-2019	Awarded Start-up Research Grant Project (SRGP) Award, worth 345,000 PKR as Principal Investigator for the project entitled “Enhancement of Data Hiding Capacity and Security in Arabic/English Text Per-Word by applying combined Cryptography and Text-based Steganography”, by HEC, Pakistan .
2024	Awarded National Grassroots ICT Research Initiative (NGIRI) award, worth 77,981 PKR for the Final Year Project entitled "IoT Based Water Spray & Pest Control Agriculture Robot" from Ignite (NGIRI), February 2024.
2024	Awarded National Grassroots ICT Research Initiative (NGIRI) award, worth 76,209 PKR for the Final Year Project entitled "Smart Control of Traffic Signals System Using AI" Ignite (NGIRI), February 2024.
2024	Selected for Funding FYP in National Grassroots ICT Research Initiative (NGIRI), worth 65,150 PKR for the Final Year Project entitled "Integrated Energy Smart System" Ignite (NGIRI), September 2024.
2019-2020	Research Consultant , Computer Lab, for FAME Education Consultants, to Develop Computer Science Laboratories at 1000 Schools of Punjab .

AWARDS/ACHIEVEMENTS

2025	Holds Certificate for achieving the Best Team Award during the 2025 CDUT International Summer School Project Presentation on AI-Driven Sustainable Urban Development , held on July 28, 2025 at Chengdu University of Technology, China.
2024	A Certificate of Appreciation Received on Securing the First Prize Worth 50K, during the Project Competition at STEM-All Pakistan Project Exhibition 2024 , held on February 13, 2024, at UET Lahore.
2023	A project/robot on the Application of IoT, Entitled ‘IoT Based Water Spray & Pest Control Agriculture Robot’ has been selected to be Showcased in the 2nd All Punjab Universities Innovation at Expo-2023, by PHEC, Pakistan
2023	A project on the Application of IoT, Entitled ‘RFID-based Grocery System’ has been selected to be showcased in the 2nd All Punjab Universities Innovation at Expo-2023, by PHEC, Pakistan
2023	Selected an IoT-based Project entitled “IoT Based Water Spray And Pest Control Agriculture Robot” for Participation in Innovation Competition - Sharjah, Skyline University College, Sharjah, United Arab Emirates on 18th May 2023
2023	Selected an IoT-based Project entitled “Telegram Controlled Home Automation System” for Participation in Innovation Competition - Sharjah, Skyline University College, Sharjah, United Arab Emirates on 18th May 2023

2018	Awarded “Best Research Article Award” by 6 th International Conference on Education “Science Beyond Classroom”, University of Education, Lahore, March 15-17, 2018.
2016	Awarded “Innovation Student Award-PhD” Beijing University of Technology, China
2015	Awarded “Outstanding International Student Award-PhD” Beijing University of Technology, China
2014	Awarded “Excellent Student Award-PhD” Beijing University of Technology, China
2013	Awarded “Ph.D. Scholarship” by the Chinese Scholarship Council, China

KEYNOTE/INVITED SPEAKER AT INTERNATIONAL-NATIONAL CONFERENCES

2023	Invited Speaker at the 25th IEEE - International Multi-Topic Conference (INMIC 2023) , University of Central Punjab, Lahore, UK, on November, 17-18, 2023
2023	Invited Speaker at the International Conference on “Applied Science Research E-Conference 2023 (Edition2)”, London, Pakistan, on November 20-21, 2023
2023	Certificate of Paper Presentation entitled “IoT Based Water Spray And Pest Control Agriculture Robot” in the Innovation Competition -2023 , organized by Skyline University College, Sharjah, United Arab Emirates on 18 th May 2023
2023	Certificate of Paper Presentation entitled “Telegram Controlled Home Automation System” in the Innovation Competition -2023 , organized by Skyline University College, Sharjah, United Arab Emirates on 18 th May 2023
2023	Guest Speaker at the 5th International Conference on “Computer Science & Allied Technologies”, Lahore Garrison University, November 23, 2023
2022	Keynote Speaker at the 4th International Conference on “Computer Science & Allied Technologies”, Lahore Garrison University, November, 14-15, 2022
2021	Keynote Speaker at the 4th National Conference on “Computer Science and Information Technologies (NCCSIT 2021)”, Lahore Garrison University, August 24-25, 2021
2020	Invited Speaker at the 3rd International Conference on “Computer Science & Allied Technologies”, Lahore Garrison University, December 15, 2020
2020	Invited Speaker at National Conference of “Computer Science and Information Technology (NCCSIT)”, at Lahore Garrison University. September 23, 2020
2019	Invited Speaker and Guest of Honour at the 2nd International Conference on “Computer Science & Allied Technologies”, Lahore Garrison University. November 27, 2019
2018	Guest Speaker for Oral Presentation in the “Academic Writing & Research Methodology” held at Riphah International University, Lahore, October 14, 2018
2018	Invited Speaker at 1st International Conference on Computer Science & Allied Technologies, Lahore Garrison University. December 19-20 2018
2018	Selected Best Paper presentation talk in 6th International Conference on Education “Science Beyond Classroom”, University of Education, Lahore, March 15-17, 2018

CHIEF ORGANIZERS/SECRETARY OF THE INTERNATIONAL CONFERENCE AND SEMINARS

2024	Secretary of the 2nd International Conference on “Recent Advances in Computer Science and Information Technology (RACSIT-2024)”, organized by Department of Information Sciences, Division of Science & Technology, University of Education, Lahore, March 5-6, 2024.
2024	Convener of Media & Marketing Committee in the 2nd International Conference on “Recent Advances in Computer Science and Information Technology (RACSIT-2024)”, organized by Department of Information Sciences, Division of Science & Technology, University of Education, Lahore, March 5-6, 2024.
2024	Chief Organizers of a Seminar on “Developing Industry Projects Using Generative AI”, September 19, 2024.
2023	Chief Organizers of International Seminar on “Applications of Machine Learning”, April 2023.
2023	Chief Organizer of Seminar on “Enhancing Employability of IT Professionals”, April 2023.
2023	Chief Organizer of Seminar on career Counselling session entitled “Passion and Purpose Pursuit, October 2023.
2022	Chief Organizers of International Seminar on “Standardization Process and Efficient Hardware Implementation of Lightweight and Quantum Computing Cryptography”, April 2022.
2021	Chief Organizers of International Seminar on “Impact of COVID-19 on Educational Sectors and to Detect COVID-19 Disease Using Machine Learning”, November 2021.
2020	Secretary of the 1st International Conference on “Recent Advances in Computer Science and Information Technology (RACSIT2020)”, organized by Department of Information Sciences, Division of Science & Technology, University of Education, Lahore, September 2020.
2019	Conference Organizer from University of Education in the 2 nd International Conference on Quality Assurance in Higher Education

CERTIFICATION _INTERNATIONAL & NATIONAL CONFERENCE PARTICIPATION, TRAINING, AND WORKSHOPS

2025	Holds Certificate for successfully completing the course of Summer Camp on AI-Driven Sustainable Urban Development , held at Chengdu University of Technology, China from June 14 th to July 19 th , 2025.
2024	Holds Certificate for Successfully Completing the Two-day Training on “Use of Generative AI in Higher Education”, organized by Punjab Higher Education Commission, January 31, February 1, 2024.
2023	Holds Certificate for Successfully Completing the Three-day Training on “Integrating technology & pedagogical aspects for online teaching”, organized by HEIs of Pakistan and European Partners, October 9-11, 2023.
2023	Holds Certificate of Participation from IIOE Global Webinar- VR Technology, Trends and Applications for Higher Education Digital Transformation, UNESCO, 2023

2023	Holds Certificate of Participation for attending Webinar on Empowering the digital transformation of HEIs in Central and South-Eastern Europe, IIOE Webinar, UNESCO, Beijing, Shanghai
2023	Holds Certificate of Participation from Microsoft Certified Trainer, HEC, Pakistan on attending a session on Artificial Intelligence (AI) in Education.
2022	Holds Certificate of Participation from IEEE on Participation in the “Publishing with IEEE Open Access Journals”, December 14, 2022.
2022	Holds Certificate of Participation “Artificial Intelligence Boot Camp (1/3)”, February 14-15, 2022.
2022	Holds Certificate of Participation “Promoting Research Excellence in Academics across Pakistan”, February 1-2, 2022.
2022	Holds Certificate of Participation “Dissecting the scholarly publishing process. A current overview on the steps to getting published”, January 26, 2022.
2021	Holds Certificate of Appreciation as Chief Organizer of “E- Seminar on Impact of COVID-19 on Educational Sectors and to Detect COVID-19 Disease Using Machine Learning”, November 25, 2021
2021	Holds Certificate of participation in NCEAC Webinar on “Impact on Quality of Computing Education during COVID-19 and Improvement Strategies”, March 30, 2021
2021	Holds Certificate of participation in NCEAC Webinar on “Webinar Office 365: Microsoft Teams Administration”, April 8-9, 2021
2021	Holds Certificate of participation in Training on “Preparation of Budget Proposal of NRPU”, April 12, 2021
2020	Holds Certificate of appreciation in recognition of exceptional work as “Conference Secretary” in the 1 st International E-Conference on Recent Advances in Computer Science and Information Technology (RACSIT2020), organized by Department of IS, UE, Lahore, Sep 24-25, 2020
2018	Holds Best Article Award (Information Technology) in the 6 th International Conference on Education “Science Beyond Classroom”, University of Education, Lahore, March 15-17, 2018
2020	Holds Certificate of participation in ELSEVIER Webinar on “Strengthening Research Planning Using Elsevier Tools-Scopus, Science Direct & Mendeley”, October 22, 2020
2020	Holds Certificate of the participation Webinar on “Python Virtual Training”, October 16, 2020
2020	Holds Certificate of the participation Webinar on “ProQuest Ebook Central Advanced Training”, September 18, 2020
2020	Holds Certificate of appreciation for rendering services as “Judge” in University of Education, for the Start-up World Cup Pakistan 2020 Campus Round, 2020
2020	Holds Certificate of participation in the Workshop training on Office 365: Microsoft Teams Administration Virtual Training, September, 17-18, 2020
2020	Holds a certificate of Distinguished Guest for participation in “IEEE IAS National Workshop on Robotics and Industrial Automation”, at Minhaj University, Lahore, February 6, 2020
2019	Holds Certificate of participation in the 2 nd International Conference on Quality Assurance in Higher Education organized by PNQAHE. April 23-25 2019

2019	Holds Certificate of appreciation on Completion of 2-Days “Promotion of Peace” Training at University of Education organized by Centre for Police and Security, December, 4-5, 2019.
2019	Holds Certificate of participation in the Hands-on Workshop on Data Science, at Lahore Garrison University. November, 27-28, 2019
2018	Certificate of Appreciation on participation in the International Conference on Social Responsibility & World Religions held at Minhaj University Lahore, October 20-21, 2018
2018	University Nomination for the training of different Technologies such as Exchange Server & Azure at HEC Islamabad

SUPERVISOR & CO-SUPERVISOR (MSCS, MSIT, MSc and BSIT) Students

1.	Supervisor, MSIT	Student Name & Registration No. Mehvish Rasheed (18-UE-01243) Thesis Title: Network Challenges on Stack Overflow Insights for Developers Using Natural Language Processing	Completed
2.	Supervisor, MSIT	Student Name & Registration No. Muhammad Waleed Khan (22-UE-02648) Thesis Title: Revolutionizing Multimedia Security: A Comprehensive Fusion of S-box, LSB, and Text Watermarking Techniques	Completed
3.	Supervisor, MSIT	Student Name & Registration No. Muhammad Maroof Ahmed (22-UE-02646) Thesis Title: Optimized Energy Load Forecasting Utilizing IoT-Enabled Smart Energy Meters through Transfer Learning	Completed
4.	Supervisor, MSIT	Student Name & Registration No. Nazish Iftikhar (23-UE-15939) Thesis Title: Suicidal Thoughts Detection on Social Media in Roman Urdu using Transformer: A Soft Voting Ensemble Approach	Completed
5.	Supervisor, MSIT	Student Name & Registration No. Muhammad Ahmad (23-UE-15943) Thesis Title: Multi-Character Embedding in Text Steganography Using RoBERTa and Masked Language Models	Completed
6.	Supervisor, MSIT	Student Name & Registration No. Perwasha Wazir (21-UE-01791) Thesis Title: Optimizing Information Security using Cryptographic Algorithms and Steganographic Techniques.	Completed
7.	Supervisor, MSIT	Student Name & Registration No. Muhammad Usama Waheed (21-UE-02074)	Completed

		Thesis Title: Security Enhancement using S-box Based Data Encryption and LSB Image Steganography	
8.	Supervisor, MSIT	Student Name & Registration No. Fajjar Walayat (21-UE-02258) Thesis Title: Breast Cancer Detection from Mammography Empowered with Transfer Learning	Completed
9.	Supervisor, MSIT	Student Name & Registration No. Muhammad Umair (21-UE-02415) Thesis Title: Detection of Pre-Ictal Stage in Epileptic Seizure using Neural Networks	Completed
10.	Supervisor, MSIT	Student Name & Registration No. Syed Tauseef Abbas Gilani (21-UE-01856) Thesis Title: Efficient Cache Strategy Based on the Optimum Neighbor for Vehicular Named Data Network	Completed
11.	Supervisor, MSIT	Student Name & Registration No. Muhammad Adnan (21-UE-02108) Thesis Title: Security Enhancement using S-box Based Data Encryption and LSB Image Steganography	Completed
12.	Supervisor, MSIT	Student Name & Registration No. Nusratullah Tauheed (21-UE-02422) Thesis Title: Efficient Classification Scheme for Photovoltaic Systems Using Machine Learning	Completed
13.	Supervisor, MSIT	Student Name & Registration No. Akash Jahangir (21-UE-02422) Thesis Title: Mobility Aware Hybrid Routing Protocol for Device-To-Device Communication on the Internet of Vehicles	Completed
14.	Co-Supervisor, MSCS	Student Name & Registration No. Mr. Wasim Akram (2017s-mulmpl-cs-02) Thesis Title: Implementation of Stress Detection Using Images, MPhil Computer Science, Minhaj University Lahore	Completed
15.	Co-Supervisor, MSCS	Student Name & Registration No. Irfan Hssain (2016f-mulmpl-cs-08) Thesis Title: Impact of Big Data on Social Media Analytics Using Hadoop Framework, Mphil Computer Science, Minhaj University Lahore	Completed
16.	Co-Supervisor, MSCS	Student Name & Registration No. Syeda Tahir Batool, Reg # SAP ID: 15497 Thesis Title: Detection of Liver Disorder, MSCS, RIPHAH International University Lahore	Completed
17.	Co-Supervisor, MSCS	Student Name & Registration No. Syed Muhammad Mujtaba Hassan, Reg # SAP ID: 15483, Thesis Title: Prediction of Hepatitis C (HCV)., MSCS, RIPHAH International University Lahore	Completed
18.	Supervisor BSCS	Supervised Final Year Project "FinSight: Generative AI-Powered Financial Analysis Solution", BSCS, University of Education, Lahore	Completed

19.	Supervisor BSIT	Supervised Final Year Project “Multi-Functional Smart Helmet Empowering Safety”, BSIT, University of Education, Lahore	Completed
20.	Supervisor BSIT PADP	Supervised Final Year Project “Pro-Legal”, BSIT PADP, University of Education, Lahore	Completed
21.	Supervisor BSIT	Supervised Final Year Project “Integrated Energy Smart System” BSIT, University of Education, Lahore	Completed
22.	Supervisor BSIT	Supervised Final Year Project “AI Enable Waste Pickup System” BSIT, University of Education, Lahore	Completed
23.	Supervisor BSIT	Supervised Final Year Project “Examination & Learning Management System” BSIT, University of Education, Lahore	Completed
24.	Supervisor BSIT	Supervised Final Year Project “Online Solution for Stitching” BSIT, University of Education, Lahore	Completed
25.	Supervisor MSc IT	Supervised Final Year Project “University Management System” MSc IT, University of Education, Lahore	Completed
26.	Supervisor MSc IT	Supervised Final Year Project “Hospital Management System” MSc IT, University of Education, Lahore	Completed
27.	Supervisor MSc IT	Supervised Final Year Project “Salat Spot App for Android” MSc IT, University of Education, Lahore	Completed
28.	Supervisor MSc IT	Supervised Final Year Project “Real time Traffic Control System Using AI” MSc IT, University of Education, Lahore	Completed
29.	Supervisor MSc IT	Supervised Final Year Project “Pill Stream” MSc IT, University of Education, Lahore	Completed
30.	Supervisor MSc IT	Supervised Final Year Project “Care Club” MSc IT, University of Education, Lahore	Completed
31.	Supervisor MSc IT	Supervised Final Year Project “Employ Insight” MSc IT, University of Education, Lahore	Completed
32.	Supervisor MSc IT	Supervised Final Year Project “Locate the Parked Car by Detection via Mobile Phone” MSc IT, University of Education, Lahore	Completed
33.	Supervisor MSc IT	Supervised Final Year Project “Easy Travel” MSc IT, University of Education, Lahore	Completed
34.	Supervisor MSc IT	Supervised Final Year Project “Rapid Shopping (Online Auction System)” MSc IT, University of Education, Lahore	Completed
35.	Supervisor MSc IT	Supervised Final Year Project “Dream Jobs” MSc IT, University of Education, Lahore	Completed
36.	Supervisor MSc IT	Supervised Final Year Project “CMEN (Website to Sell Handicraft Products)” MSc IT, University of Education, Lahore	Completed
37.	Supervisor MSc IT	Supervised Final Year Project “Location Based Reminder” MSc IT, University of Education, Lahore	Completed
38.	Supervisor	Supervised Final Year Project “MSc IT Evening Class” Session (2018-2020), University of Education, Lahore	Completed

EXTERNAL & INTERNAL EXAMINER

External Examiner	Nosheen Pervaiz, (1373-MSCS-18) Arabic Text Summarization for Urdu Language, Govt. College University, Lahore
External Examiner	Ammerha Naz (22201009-001) Hybridchain: A Blockchain-Based Framework to Preserve Privacy of User's Data in Internet of Vehicle System, University of Sialkot
External Examiner	M.Rabbah Khan (22201009-004) IoT Based Model for Yield Prediction of Strawberry through Physicochemical Analysis of Soil, University of Sialkot
External Examiner	Tanzil Rabbani (22201009-009) Identification of Mobile screen quality by using deep learning technique, University of Sialkot
External Examiner	Saba Farzeen (22201009-015) From Traditional to Smart Farming: A New Era for Agriculture in Pakistan, University of Sialkot
External Examiner	Kanza Khurram (22201009-019) Skin Disease Diagnostic System using Deep Learning, University of Sialkot
External Examiner	Firdous Qaiser (21101009043) Caching Popular Contents in Optimal NDN Caching points using SDN-Controller, University of Sialkot
External Examiner	Sunny ul Hassan, (Fa2021-MSIT-003) Real-Time Students Behavior and Motion Detection in Smart Classroom Using Deep Learning, Lahore Garrison University, Lahore
External Examiner	Hafsa Ajmal, (Mphil CS – ID: 193858) Exploratory Data Analysis and Sentimental Analysis of E-Commerce Website, The Institute of Management Sciences (IMS), Lahore
External Examiner	Muhammad Imran, (Sp19-MSCS-023) An Intelligent Credit Card Fraud Detection Mechanism, Lahore Garrison University, Lahore
External Examiner	Farhat Rehman, (1374-R-MSCS-18) A GEO-Located Twitter Sentiments Polarity Analysis Through Opinion Mining, Govt. College University, Lahore
External Examiner	Muhammad Fazeel Shehzad, (USKT/MSCS/20101009-036) Covid-19 Cough Detection using Deep Learning on Spectral Images of Audio Signals, University of Sialkot
External Examiner	Mehwish (USKT/MSCS/20101009-088) Usability and User Experience Evaluation to Redesign a User Interface by Implementing HCI Design Principles, University of Sialkot
External Examiner	Muhammad Zain (USKT/MSCS/20101009-052) Improved Feature Selection for Imbalanced Text Classification Using Ensemble Methods, University of Sialkot
External Examiner	Amina Ilyas, (USKT/MSCS/20101009-026) Usability factors to improve User Interface design, University of Sialkot
External	Fatima Ilyas (USKT/MSCS/20101009-006)

Examiner	Enhancement of User Experience by Implementing Heuristic Evaluation, University of Sialkot
External Examiner	Muhammad Tariq, (M.Phil. CS/088) AI-Based Approach for Prediction of Effective COVID-19 Vaccination, Faculty of Computer Science & Information Technology, Minhaj University Lahore
External Examiner	Sajid Iqbal (MSCS) Named Entity Recognition using Recurrent Neural Network, Lahore Garrison University, Lahore
External Examiner	Fareeha Naqvi, (FA-2020-MSCS-009) Liver Cirrhosis Classification for Health Informatics with Deep Learning, Lahore Garrison University, Lahore
External Examiner	Ammama Usman, (USKT/20201009-003) DNA Cryptography and Boolean Operation Based Secret Images Sharing Scheme, University of Sialkot
External Examiner	Maria Akram, (USKT/2021009-008) Development of a Blockchain Based Model for Patient Health Data Security, University of Sialkot
External Examiner	Aisha Yousaf, (USKT/20201009-059) The Classification and Detection of Multi Retinal Disease Using Machine Learning Algorithms, University of Sialkot
External Examiner	Mamona Ashraf, (USKT/20201344-096) Usability Analysis and Improved Model for The Women Safety Apps, University of Sialkot
External Examiner	Hamna Javed, (USKT/20201009-038) Classification of Brain Tumor Using Few Shot Learning, University of Sialkot
External Examiner	Batool Abbas, (FA-2019-MSCS-016) Thesis Title: Decision Level Fusion Based Hybrid Approach for Intelligent Transportation Systems in Smart Cities, MSCS, GCU LHR
External Examiner	Mubashar Habib, (SP19-MSCS-022) Thesis Title: Analysis of the Smart Player's Impact on the Success of a Team Empowered with Machine Learning, MSCS, GCU LHR
External Examiner	Mudasir Hussain, (SP-2018-MSCS-013) Thesis Title: Power Management in Smart Building using Machine Learning, MSCS, LGU
External Examiner	BS IT Final Year IT Capstone Projects evaluation, Department of Information Sciences, Faisalabad Campus, University of Education, Lahore
Internal Examiner	BS IT & MSc IT Final Year Projects evaluation, Department of Information Sciences, Division of Science & Technology, University of Education, Lahore

MEMBER OF THE EDITORIAL BOARD OF ACADEMIC JOURNAL

2024	Nominated as Guest Editorial of A Special Issue on “Recent Advances in Computer Science & Information Technology (RACSIT-2024)”, with Lahore Garrison University Research Journal of Computer Science and Information Technology. https://lgurjcsit.lgu.edu.pk/index.php/lgurjcsit/issue/view/31
2024	Nominated as Program Committee Member for 21 st International Conference on Frontiers of Information Technology (FIT 2024). https://fit.edu.pk/page4.html
2022	Nominated as Editorial Board Member of the International Journal of Information Systems and Computer Technologies, Pakistan. https://journals.cfrit.com/index.php/ijisct/editorial-board
2022	Nominated as Editorial Board Member of Journal of Soft Computing Exploration in September Edition 2022.

REVIEWER OF INTERNATIONAL JOURNAL

Reviewer of CMC- Computer, Material & Continua
Reviewer of International Journal of Web and Grid Services
Reviewer of Applied Sciences (Switzerland)
Reviewer of The Computer Journal
Reviewer of Egyptian Informatics Journal
Reviewer of Symmetry
Reviewer of KSII Transaction on Internet and Information Systems
Reviewer of International Journal of Communication Networks and Distribution Systems
Reviewer of Journal of King Saud University- Computer and Information Sciences
Reviewer of Frontiers in Public Health
Reviewer of Journal of Information Security and Applications
Reviewer of Computer Systems Science and Engineering

DEVELOPMENT OF NEW COURSES

2024-2025	Developed New Courses of BSIT Post ADP , Scheme of Studies (SoS), implemented in 2024
2021-2022	Developed New Courses of MSCS , Scheme of Studies (SoS), implemented in 2023
2019-2021	Developed New Courses of MSIT , Scheme of Studies (SoS), implemented in 2021
2020-2021	Developed New Courses of BSCS , Scheme of Studies (SoS), implemented in 2021
2020-2021	Developed New Courses of BSIT , Scheme of Studies (SoS), re-implemented in 2021

UNIVERSITY LEVEL COMMITTEE CONVENER AND MEMBER FOR DIFF. ACTIVITIES

June 23, 2023 ~ to date	Nominated Committee Member for Artificial Intelligence Club for Department of Information Sciences, University of Education, Lahore
March 27, 2023 ~ to date	Nominated as Incharge UEIT Society , Department of Information Sciences, University of Education, Lahore
September 2021 ~ to date	Nominated MSIT Research Proposal Review Committee Member , Department of Information Sciences, DSNT, UE, Lahore
2019 ~ to date	Nominated Focal Person of the “National Grassroots ICT Research Initiative 2021” University of Education, Lahore
2024	Secretary of the 2nd International Conference on “Recent Advances in Computer Science and Information Technology (RACSIT-2024)”, organized by Department of Information Sciences, Division of Science & Technology, University of Education, Lahore, March 5-6, 2024.
2024	Nominated UI GreenMetric World University Ranking through Green Youth Movement (GYM) Club Member , from Department of Information Sciences, DSNT, UE, Lahore
2024	Convener of Media & Marketing Committee in the 2nd International Conference on “Recent Advances in Computer Science and Information Technology (RACSIT-2024)”, organized by Department of Information Sciences, Division of Science & Technology, University of Education, Lahore, March 5-6, 2024.
2022	Nominated Committee Member for maintaining Discipline & Event Management at 9 th Convocation of University of Education, Lahore
2022-2024	Nominated Member of Annual Stock Taking at Central Library from Division of Science & Technology, Department of Information Sciences, University of Education, Lahore.
2022-2024	Nominated Departmental Dead Stock Verification Committee Member in the Division of Science & Technology, Department of Information Sciences, University of Education, Lahore.
2022	Nominated Convener of the Committee to Organize Seminar on “Cyber Crime Awareness” at Department of Information Sciences, DSNT, UE, Lahore
2022	Nominated Committee Member to ensure the preparation of Course Folders for upcoming NCEAC visit to accredit BSIT program, Department of Information Sciences, DSNT, UE, Lahore
2018-2023	Nominated Member of Admission Committee MSIT and BSCS , Department of Information Sciences, DSNT, UE, Lahore
2021-2022	Final Year Projects (BSIT) evaluation committee member , Department of Information Sciences, DSNT, UE, Lahore
2020-2021	Nominated Departmental Board of Studies (BoS) Committee Member , Department of Information Sciences, DSNT, UE, Lahore
2018-2019	Final Year Projects (BS/MSc IT) evaluation committee member , Department of Information Sciences, DSNT, UE, Lahore
2020	Nominated Conference Secretary in the 1 st International E-Conference on Recent Advances in Computer Science and Information Technology (RACSIT2020),

	organized by Department of IS, UE, Lahore, Sep 24-25, 2020
2020	Nominated Convener of the Media Committee in the 1 st International E-Conference on Recent Advances in Computer Science and Information Technology (RACSIT2020), organized by Department of IS, UE, Lahore, Sep 24-25, 2020
2019	Nominated Convener of Admission Committee BSIT & MSc IT, Department of Information Sciences, DSNT, UE, Lahore
2019-2020	Nominated Member of Internal Advisory Board for the approval of IT Capstone titles & Selection of Elective Courses of the Department of Information Sciences, DSNT, UE, Lahore
2019-2020	Nominated Member of Selection Committee of Visiting Faculty of IS department for Fall2020, Department of Information Sciences, DSNT, UE, Lahore
2018-2019	Final Year Projects (BS/MSc IT) evaluation committee member , Department of Information Sciences, DSNT, UE, Lahore
2019	Appointed as Final result Scrutinizer from the internal Examination Incharge, for Session Fall 2015-2019, DSNT, UE, for
2019	Member of the Organizing Sponsor Committee in the 2 nd International Conference on Quality Assurance in Higher Education, DSNT, UE, Lahore
2019-2024	Member of the Organizing University Sports League Committee , DSNT, UE, Lahore
2019-2024	Member of the Organizing Annual Supports Gala Committee , 2019, DSNT, UE, Lahore
2019	Nominated Member of Admission Committee BSIT & MSc IT, Department of Information Sciences, DSNT, UE, Lahore

FIELDS OF RESEARCH INTERESTS

Fields of research interests include;

- AI/Machine Learning/Deep Learning
- Information Security
- Digital Steganography
- Internet of Things

Teaching Expertise (MSIT, MSCS, BSIT, BSCS, MSc IT)

Advanced Information Security

Advanced Operating System

Machine Learning

Internet of Things

Computer Communication & Networks

Network Security

System and Network Administration Linux Based

System and Network Administration Windows Based

Personal Information

Name:	Dr. Allah Ditta
S/o:	Muhammad Younis
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D.O.B:	02 December 1988
Passport No.:	AQ7496243

References

Prof. Dr. Cai Yongquan	Beijing University of Technology, China.	13910303218@163.com
Associate Prof. Dr. Hannan Bin Liaqat	University of Education, Lahore	hannan.Liaqat@ue.edu.pk
Associate Prof. Dr. M. Arshad Kamran	University of Okara	makamran81@gmail.com