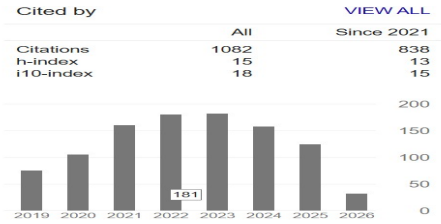
Dr. ZULFIQAR HUSSAIN PATHAN

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	All	Since 2021
Citations	1082	838
h-index	16	14
i10-index	18	17



ACADEMIC PROFILE

Associate professor in data science with a phd in management science & engineering and interdisciplinary expertise spanning data-driven decision support, ict adoption, cloud computing, technology management, business analytics, and applied ai. experienced in university teaching, academic leadership, quality assurance, research supervision, curriculum development, and institutional governance. research outputs include international journal and conference publications, alongside scholarly citation impact and academic service.academic qualifications

ACADEMIC QUALIFICATIONS

2014-2018 **Ph.D. Management Science & Engineering**
Beijing University of Posts and Telecommunications, China.
Thesis: '***Research on ICT Adoption of Cloud-Computing in Small & Medium Enterprises'***
Result: **First Class**

2010-2011 **Master of Science (MS) in Technology and Innovation Management (TIM) [18-years schooling]**
Mehran University of Engineering & Technology, Jamshoro (PAKISTAN),
Thesis: '***Problem faced by Female Entrepreneurs of Sindh'***
Result: **First class**

2003-2006 **B.S. Computer Science.**
University of Sindh, Jamshoro (Pakistan),
Result: **First class**

PROFESSIONAL EXPERIENCE (RESEARCH, TEACHING & ADMINISTRATION)

August, 2023 to Date ***In charge Chairman, Department of Data Science / BIS, Dawood University of Engineering & Technology (DUET), Karachi.***

August, 2026 to Date ***Associate Professor at Department of Data Science, DUET, Karachi.***

October, 2022 to July, 2026 ***Assistant Professor at Department of Data Science / Business Information System, DUET, Karachi.***

Sep:2014-to July 2018 **Research PhD Scholar at Beijing University of Posts and Telecommunication BUPT.**

March 2008-October 2022 **IT-Officer /Deputy Registrar, Mehran University of Engineering and Technology, Pakistan,**

November, 2018 to October, 2022 Additionally Assignment as ***Quality Coordinator****, Mehran University of Engineering & Technology, Jamshoro, Pakistan.*

2011-to 2014 **Visiting Faculty** in College of Hyderabad Institute of Art Science & Technology (Hi-AST). following subjects were being taught **to MBA students.**

2007-2008 **S.I Government Degree College Hala, Lecturer through NIP Program**

ACADEMIC GOVERNANCE & UNIVERSITY SERVICE

- Member, Board of Studies (BoS), Computer Science.
- Member, Board of Faculty, Faculty of Information & Computing Sciences (I&CS), DUET.
- Member, Academic Council, Dawood University of Engineering & Technology (DUET).
- Academic leadership in curriculum review, course/CLO alignment, quality assurance, and accreditation-related coordination for Data Science / Business Information System.

RESEARCH EVALUATION & EXTERNAL ACADEMIC SERVICE

- Evaluator of a PhD final thesis (2026).
- External evaluator for MS students at the University of Sindh, Jamshoro, and Mehran University of Engineering & Technology (MUET), Jamshoro (2026).
- Editorial Board Member, Sukkur IBA Journal of Business and Management.
- Editorial Board Member, Industrial Engineering and Innovation Management.

RESEARCH INTERESTS

Data Science and Business Analytics; Artificial Intelligence and data-driven decision support; ICT adoption and cloud computing in SMEs; technology and innovation management; digital transformation; entrepreneurship; e-commerce; ICT in business and management.

LIST OF PUBLICATION https://www.webofscience.com/wos/author/record/R-3010-2019

INTERNATIONAL JOURNAL PUBLICATIONS (18 Papers on Web of Science out of 28)

1. Ahmed, I., **Pathan, Z. H**., Saleem, M., & Khan, A. (2026). AI-Powered Application for Books Recommendation in Library Management System via BERT Model. *Journal of Independent Studies and Research Computing*, *24*(1), 98-106.
2. **Pathan, Z. H**., Aziz, A., Asgher, S. A., Khoso, F. H., Waqar, A., & Ahmed, I. (2025). A Machine Learning-Based Approach for Intelligent Game Recommendation System (I-GRS). *International Journal of Artificial Intelligence & Mathematical Sciences*, *4*(2), 1-12.
3. **Pathan, Z. H**., Sikander, A., Aziz, A., Asghar, S. A., & Saleem, M. (2025). User-Centric Approach to Design a Digital Shopping Cart: Enhancing User Experience in Super Stores. *Journal of Independent Studies and Research Computing*, *23*(1), 58-63.

4. Jokhio, S., Memon, A. A., Rathi, M., **Pathan, Z. H**., & Sikander, A. (2025). A Framework for Real Time Continual Learning Federated Intrusion Detection Systems. *Pakistan Journal of Engineering, Technology and Science*, *13*(2), 80-86**.**
5. **Pathan, Z. H**., Aziz Asif., Sikander A, & Tunio, M. Z. (2024). An Efficient GPU Deep Learning Model approach for Brain Tumor Detection in Pakistan. JISR-C, SZABIST 22(1), 111-120.
6. **Pathan, Z. H**., Sikander A, Aziz Asif., & Tunio, M. Z. (2024). Block chain Land: A Secure and Immutable Real Estate Record Keeping System. Journal of Xi'an Shiyou University, Natural Science Edition, 20(09), 242-247.
7. **Pathan, Z. H**., Jianqiu, Z., Akram, U., Latif, Z., Khan, M. K., & Tunio, M. Z. (2017). Essential factors in cloud-computing adoption by SMEs. *Human Systems Management*, *36*(4), 261-275.
8. **Pathan, Z. H**., Jianqiu, Z., Gilal, F. G., & Salam, S. (2017). Linking ICT utilisation to SME's performance: miracle or mirage? The empirical evidence and lesson from Pakistan. *International Journal of Information Systems and Change Management*, *9*(2), 149-166.
9. **Pathan, Z. H**., Jianqiu, Z., Akram, U., Khan, M. K., Latif, Z., & Tunio, M. Z. (2017). Innovation-diffusion determinants of cloud-computing adoption by Pakistani SMEs. *Human Systems Management*, *36*(3), 197-209.
10. **Pathan, Z. H**., Tunio, M. Z., Latif, Z., Memon, S., & Hassan, Z. (2017). Systematic Investigation of Influential Adopting Factors of Software as a Service (SaaS) in SMEs. *Saudi Journal of Business and Management Studies*, *2*(9), 834-841.
11. **Pathan, Z. H**., Jianqiu, Z., Latif, Z., Memon, S., & Hao, D. (2017). Research on ICT patterns and integration in small & medium enterprises" a case study of Pakistan. *International Journal of u-and e-Service, Science and Technology*, *10*(2), 53-64.
12. **Pathan, Z.H** (2013). *Influencing Factors for Entrepreneurial Activities***.** International Journal of Management Science (RASS), Volume2, Issue 1.
13. **Pathan, Z. H**., Tunio M.Z., Latif, Z., (2018). Empirical Analysis of ICT Constraints in SMEs. *Saudi Journal of Engineering and Technology (SJEAT), Vol. 3 No. (1), 1-9.*
14. Wang, L., Yang, M., **Pathan, Z.H**., Salam, S., Shahzad, K. and Zeng, J., 2018. Analysis of Influencing Factors of Big Data Adoption in Chinese Enterprises Using DANP Technique. Sustainability, 10(11), p.3956.
15. Latif, Z., Lei, W., **Pathan, Z. H**., Hussain, S., & Khan, K. (2018). Factors affecting diffusion and adoption of information and communication technology among rural users in Khyber Pakhtunkhwa Province, Pakistan. International Journal of Information Technology and Management, 17(4), 349-370.
16. Latif, Z., Jianqiu, Z., Ullah, R., **Pathan, Z. H**., & Latif, S. (2017). Application of optical frequency comb in high-capacity long distance optical communication for China-Pakistan economic corridor. *Journal of Optical Communications*, *38*(3), 331-340.
17. Latif, Z., Yang, M., **Pathan, Z. H**., & Jan, N. (2017). Challenges and prospects of ICT and trade development in Asia. *Human Systems Management*, *36*(3), 211-219.
18. Memon, S., Changfeng, W., Rasheed, S., **Pathan, Z. H**., & Yanping, L. (2015). Communication management of large projects in big data environment. *Int. J. Hybrid Inf. Technol*, *8*(11), 397-404.

19. Latif, Z., Latif, S., Ximei, L., **Pathan, Z. H**., Salam, S., & Jianqiu, Z. (2018). The dynamics of ICT, foreign direct investment, globalization and economic growth: Panel estimation robust to heterogeneity and cross-sectional dependence. Telematics and Informatics, 35(2), 318-328..

20. Latif, Z., Lei, W., Latif, S., **Pathan, Z. H**., Ullah, R., & Jianqiu, Z. **(2019).** Big data challenges: prioritizing by decision-making process using analytic network process technique. Multimedia Tools and Applications, 78, 27127-27153.

21. Latif, Z., Xin, W., Khan, D., Iqbal, K., **Pathan, Z. H**., Salam, S., & Jan, N. (2017). ICT and sustainable development in South Asian countries. *Human Systems Management*, *36*(4), 353-362.

22. Memon, S., Changfeng, W., Rasheed, S., **Pathan, Z. H**., & Tunio, M. Z. Big Data Environment & Communication Management (A statistical analysis for large projects).

23. Latif, Z., Jianqiu, Z., Salam, S., **Pathan, Z. H**., Jan, N., & Tunio, M. Z. (2017). FDI and 'political'violence in Pakistan's telecommunications. *Human Systems Management*, *36*(4), 341-352.

24. Memon, S., Changfeng, W., Rasheed, S., **Pathan, Z. H**., Saddozai, S. K., & Yanping, L. (2016). Adoption of Big Data Technologies for Communication Management in Large Projects. *International Journal of Future Generation Communication and Networking*, *9*(10), 73-82.

25. Salam, S., Zeng, J., **Pathan, Z. H**., Latif, Z., & Shaheen, A. (2018). Impediments to the integration of ICT in public schools of contemporary societies: a review of literature. Journal of Information Processing Systems, 14(1), 252-269..

26. Khairuddin, S., Qureshi, Z. H., Wahid, R. A., Tehseen, S., **Pathan, Z. H**., & Khan, M. R. K. **(2019).** A conceptual study on contingent impact of external integration on innovation SME business success relationship. International Journal of Financial Research, 10(5), 370.

27. Yang, G., Zeng, J., Yang, M., Wei, Y., & Wang, X, **Pathan, Z. H**. **(2020).** Ott messages modeling and classification based on recurrent neural networks. Computers, Materials & Continua, 63(2), 769-785.

28. Tunio, M. Z., Luo, H., Wang, C., Zhao, F., Shao, W., & **Pathan, Z. H**. (2018). Crowdsourcing software development: task assignment using PDDL artificial intelligence planning. Journal of Information Processing Systems, 14(1), 129-139.

INTERNATIONAL CONFERENCE PAPERS PRESENTED (8)

1. **Pathan, ZH.,** Zeng, J, Latif, Z. Memon, S, Qureshi, Z**.** (2016, November) **'*SMEs Are Slower to Adopt Emerging Technologies*** paper orally presented in an International Academic Conference for Graduates, NUAA **(Nanjing, China).**
2. **Pathan, ZH.,** (2013) **'*Problems Faced by Female Entrepreneurs of Sindh'*** paper orally presented in an International Conference on 'Innovation in Engineering Innovations in Engineering and Technology(ICIET'2013) Dec. 25-26, 2013 **Bangkok (Thailand).**
3. **Pathan, ZH.,** (2012) **'*Trends in Environmental Education: Taxonomy of Universities and Research Journals'*** paper presented at an International Conference on '**Energy, Environment & Sustainable Development (EESD2012)",** was held on February 27-29, 2012 at MUET, Jamshoro, **Pakistan.**

4. Salam,S. Jianqiu, Z., **Pathan, ZH**., Lei, W. (2017, December). Strategic Barriers in the Effective Integration of ICT in the Public Schools of Pakistan. *International Conference on Computer Science and Artificial Intelligence (CSAI 2017)*. **ACM Publisher (Jakarta, Indonesia).**
5. Magsi, Z., Koondhar, M. Y., Depar, M. H., **Pathan, Z. H**., & Solangi, S. (2020, December). Conceptual Framework Transformation of Converged Infrastructure (CI) into Hyper Converged Technology for Virtualization of Server Infrastructure. In 2020 IEEE 7th International Conference on Engineering Technologies and Applied Sciences (ICETAS) (pp. 1-4). IEEE**.**
6. YaqoobKoondhar, M., Depar, M. H., **Pathan, Z. H**., Magsi, Z., & Solangi, S. (2020, December). Conceptual Framework for Performance Analysis of TCP Implementation on Various Platforms. In 2020 IEEE 7th International Conference on Engineering Technologies and Applied Sciences (ICETAS) (pp. 1-3). IEEE**.**
7. Latif, Z., Tunio, M. Z., **Pathan, Z. H**., Jianqiu, Z., Ximei, L., & Sadozai, S. K. (2018, March). A review of policies concerning development of big data industry in Pakistan: Subtitle: Development of big data industry in Pakistan. In 2018 international conference on computing, mathematics and engineering technologies (iCoMET) (pp. 1-5). IEEE.
8. Latif, Z., Zeng, J., Salam, S., **Pathan, Z.H**., Wang, L., Jan, N., & Salman, M. (2017, July). Shift in the Regional Balance of Power from Europe to Asia: A Case Study of ICT Industry. In *International Conference on Management Science and Engineering Management* (pp. 490-498). **Springer**, Cham.

WORKSHOPS / SEMINARS ATTENDED.

1. International Conference on "Science Policies and Restructuring of National Systems of Innovation" attended three days October 03~05, 2012 organized by COMSTECH ISLAMABAD.
2. National Workshop on "Intellectual Property Rights in Pakistan: Challenges & Opportunities" attended on 26th April, 2012 organized by MU-ISTD, MUET, Jamshoro.
3. A Training Course on "Intellectual Property Rights" attended from 6th June, 2011 To 10th June, 2011 (05 Days) organized by COMSTECH, ISLAMABAD.
4. International Conference on "Sustainable Water Management" attended three days September 15-17, 2010 organized by Mehran University of Engineering & Technology, Jamshoro.
5. Two days workshop on "Research Design and Management" attended on January 14~15, 2011 organized by Institute of Science & Technology Development, MUET, Jamshoro.

RESEARCH INTEREST

Business Analytics, Innovation Management, Entrepreneurship, Technology & Innovative Systems, Electronic Commerce, ICT in Business & Management.