

RAHMAN ALI (PHD)

PhD in Computer Engineering (AI/ML), Kyung Hee University, S. Korea (2016),
M.Phil in Artificial Intelligence (Univ of Peshawar, 2009) &
MSc. Computer Science (Hazara Univ., 2005)

Asst. Professor,

Department of Artificial Intelligence and Data Science, Woosong University, Kazakhstan



Teaching & Research Interests:

AI, Machine & Deep Learning (ML/DL), Agentic & GenAI, Data Science, Data Analytics, Core Computer Science, AutoML, Meta-learning, Reasoning & Inference, Intelligent Decision Support System, Recommendation System, Digital Health

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🔗 Profiles:

[LinkedIn](#) | [Google Scholar](#) | Publications: 39 | Citations: 2546; H-index: 28 |
[Web of Science](#) (WoS ID: ADR-1711-2022) | Citations: 1136; H-index: 18 |
[Scopus](#) (Scopus ID: 24775152600) |
[ORCID](#) (ORCID ID: 0000-0002-9171-8573)

PROFILE (TEACHING & RESEARCH)

Senior academic and researcher (currently serving as Asst Professor in AI & Data Science at Woosong University, Kazakhstan) with 18+ years of experience in university teaching, research, and academic leadership across AI, ML/DL, DS, and core CS. PhD (Best Thesis Award, Kyung Hee University) with 39 peer-reviewed journal articles (16 Q1; IF 135+), 29 international conference papers, a Korean patent, and 2,546+ citations (h-index 28, i10-index 42). Led 10+ funded research projects (USD 156K+) and supervised PhD and graduate research in healthcare, education, NLP, and decision support systems, with a strong record of interdisciplinary collaboration.

Highly effective educator (95.4% student evaluation score) specializing in AI/ML, ANN, Data Analytics, and DS, with extensive experience in curriculum design, outcome-based education (OBE), and program coordination. Demonstrated academic leadership through roles including Director of Distance Education (institutional LMS development), Program Coordinator (BS Business Intelligence & Analytics), and service on GSC, BoF, and ASRB, enabling effective contribution to both research-intensive and teaching-focused higher education environments.

ACADEMIC QUALIFICATIONS

1. **PhD, Comp., Science (AI/ML)**, Dept., of Comp., Eng., Kyung Hee Univ, South Korea, Aug 17, 2016
 - a. Best PhD Thesis Award for the Thesis Titled: Accurate classifier selection methodology using multi-criteria decision making and meta-learning
2. **MPhil, Artificial Intelligence**, Dept. of Comp., Sci., University of Peshawar, Pakistan, May 28, 2009
 - a. Conducted NLP Research under the title" Pronominal Anaphora Resolution in Pashto Discourse"
3. **MSc, Computer Science** Hazara University, Pakistan, Feb 98, 2005
4. **BSc, Computer Science**, University of Peshawar, Pakistan, Sept 14, 2002
5. **Higher Secondary School Certificates (HSSC)**, BISE, Swat, Pakistan, 2000.

TEACHING & RESEARCH EXPERIENCE – 18 + YEARS

Asst. Professor, Woosong University Kazakhstan (1st March 2026 - Present)

- Teaching graduate cours(es): Database System
- Supervision: Undergraduate Students

Associate Professor (PG), University of Peshawar (2nd December 2025 – 28th Feb 2026)

- Teaching graduate courses: Data Mining, ML/DL and ANN
- Supervision: BS, MS and PhD Students in AutoML, GenAI, AgenticAI and Transformer and Pretained Models

Assistant Professor, University of Peshawar (Oct 2015 – 2nd December 2025)

- Teaching undergraduate and graduate courses: AI, Data Mining, Machine Learning, MIS, Distributed Systems, Algorithm Analysis, Research Methodology, Operating Systems, Digital Logic Design.
- Developed and coordinated new syllabi for BS Business Intelligence & Analytics with tools like Python, R, and Generative AI, PowerBI, Tableau, Data Warehouse, Database Administration
- Supervised multiple MS and PhD students in applied AI topics.

Lecturer, University of Peshawar (Dec 2009 – Oct 2015)

- Courses Taught: E-Business, E-commerce, Operating Systems, AI, NLP, Automata Theory, Visual Basic Programming, Data Structure, Database Administration
- Served as College-level Examination Coordinator.
- Supervised multiple Final Year Projects in diverse areas ranging from desktop & web applications to AI-based research solutions.

Lecturer, Univ. of Science & Tech Bannu and Govt. College, Swat (Aug 2009 – Dec 2009)

- Courses Taught: System Analysis & Design, Data Structure.

Lecturer, Higher Education (Govt. Degree College Kabal, Swat) (Sept 2007 – Aug 2009)

- Courses Taught: Programming fundamentals (C/C++), Digital Logic Design, Discrete Mathematics, Database Management System, Computer Networks.
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ADMINISTRATIVE EXPERIENCE

- Director, Distance Education - Directorate of Distance Education, Univ. of Peshawar (07.02.2018 – 18.06.2019)
 - Focal Person, Smart Classroom Project - Department of Computer Science, University of Peshawar (2019 – Present)
 - Coordinator, National Vocational & Technical Training Commission - Quaid-e-Azam College of Commerce, University of Peshawar (2019 – 2023)
 - Coordinator of Examination - Quaid-e-Azam College of Commerce, Univ. of Peshawar (2010 – 21)
 - Coordinator BS Business Intelligence & Analytics – Proposed, designed and developed full BS program at the Quaid-e-Azam College of Commerce, University of Peshawar (2024 – Present).
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CURRICULUM & COURSE DEVELOPMENT

- As coordinator of the BS Business Intelligence and Analytics program, I proposed and developed a comprehensive course syllabus to meet modern data-driven demands.

- Created and structured courses in artificial intelligence, data science, machine learning, data analytics, and database management systems, incorporating essential tools like Python, R, MS PowerBI, and Generative AI.
 - Additionally, designed the syllabi for Management Information Systems, Database Administration (Oracle Track), and Introduction to ICT, ensuring they align with industry standards and prepare students for data-focused careers.
 - Led LMS system development for Distance Education at University of Peshawar.
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BOOKS AUTHORED

- **Introduction to Computer & ICT** (2020) – Undergraduate level (HEC curriculum-aligned)
 - **Management Information System (MIS)** (2018) – BBA, MBA, BS Commerce, BSCS
 - **Computer Science Grade XII Textbook** (2016) – Approved by KP Textbook Board, Pakistan
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TRAINING ROLES & CAPACITY BUILDING

Actively contributed to national and institutional training initiatives aimed at enhancing youth employability and strengthening administrative capacity through high-impact, skill-based programs.

- **High-Tech Skills Training for Youth Employability:** Served as a Coordinator and lead trainer under the Prime Minister's Kamyab Jawan Program and the National Vocational and Technical Training Commission (NAVTTTC) from 2020 to 2023. Delivered hands-on training in Oracle DBA, Web & Mobile App Development, and QuickBooks. Designed practical, industry-aligned curricula to equip students and unemployed youth with in-demand ICT skills for better job prospects.
 - **Administrative Capacity Building:** Collaborated with the Center for Human Resource & Career Development (CHRCDD), University of Peshawar from 2022 to date, to train administrative officers in technical writing, digital collaboration, and the use of Generative AI tools. Focused on enhancing administrative competence, operational efficiency, and data-driven decision-making through smart technologies.
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AWARDS/ HONORS/ ACHIEVEMENTS

- **Travel Grant** (PKR. 278,276/-) for Research Presentation in: 2018 Joint 10th International Conference on SCIS and 19th ISIS, TOYAMA, **Japan**.
 - **Travel Grant** (PKR. 206,955/-) for Research Presentation in: 11th International Conference on Ubiquitous Information Management and Communication, (ACM IMCOM 2018), LANGKAWI, **Malaysia**.
 - **Best PhD Thesis Award:** Kyung Hee University, South Korea (2016).
 - **Best Presentation Award:** 2018 Joint 10th International Conf. on SCIS and 19th ISIS, Toyama, Japan.
 - **President and BK21 Plus Research Fellowship:** Kyung Hee University, South Korea (US \$73,000).
 - **HEC, Pakistan, Partial Support Program for PhD:** (US \$15,000).
 - **Silver Medal:** M.Sc. Computer Science, Hazara University, Pakistan (2005).
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RESEARCH PROJECTS CONTRIBUTIONS

Actively contributed to research through grant acquisition, proposal writing, publishing 39 papers (16 Q1, 13 Q2), 2,546+ citations, H-index 28, and registering 1 patent. Secured 10+ grants in AI/data science with 135.44+ impact factor. Presented at 29 global conferences, have three open source implementation of the research frameworks, collaborating with institutions in South Korea, France, UAE, China, and the UK. [Google Scholar profile](#)

Grants Highlights:

- **Research-Focused Projects and Grants:** Led, participated and secured funded research (USD 156,755) in AI, ML, and educational technologies, delivering practical solutions in smart systems and academic analytics.
- **Travel & Academic Mobility Grants:** Received international grants (USD 31,428) supporting academic travel, collaboration, and research exchange across Japan, Malaysia, and France.
- **Training-Focused Projects and Grants:** Led and delivered nationally funded training (USD 77,239) under the Govt of Pakistan national project for high-tech skills development (NAVTTTC), enhancing youth soft skills through technical education and capacity-building programs.

Selected Research-Focused Projects and Grants Details

Externally Funded Research Projects | Zayed University, UAE | Supervisors: Prof. Dr. Asad Masood Khatak, Prof. Dr. Farkhund Iqbal, Prof. Dr. Saiqa Aleem, Prof. Dr. Francis Chow | Sept 2016 – Sept 2020

- **Project 1: Design and Development of an Accurate Multi-Criteria Decision-Making (MCDM) Model for Deserving Donee Selection.** (July 2020 – Sept 2020)
Role: Research Assistant;
Grant Value: USD 4,083.86 (AED 15,000);
Publication <https://saiconference.com/FTC>
- **Project 2: A Systematic Review of Artificial Intelligence and Machine Learning Techniques for Cyber Security.** (Jan 2020 – March 2020)
Role: Research Assistant;
Grant Value: USD 6,175.78 (AED 22,500);
Publication:
https://link.springer.com/chapter/10.1007/978-981-15-7530-3_44,
<https://www.hindawi.com/journals/scn/2022/2959222/>
- **Project 3: Deep Learning on Smart Cities' Data for Reducing CO₂ Emissions.** (Dec 2019 – Feb 20)
Role: Research Assistant;
Grant Value: USD 6,860.88 (AED 25,200);
Publication:
<https://tinyurl.com/rhu5sy35>,
<https://www.hindawi.com/journals/sp/2022/2333821/>
- **Project 4: Intelligent Decision Support System for Predicting Students' Academic Performance.** (Apr 2019 – Jul 2019);
Role: Research Assistant;
Grant Value: USD 6,860.88 (AED 25,200);
Publication: <https://ieeexplore.ieee.org/document/8900760>
- **Project 5: Case-Based Meta-Learning and Reasoning Framework for Classifier Recommendation,** (Sept 2017 – Nov 2017);
Role: Research Assistant;
Grant Value: USD 8,167.70 (AED 30,000);

Publication: <https://dl.acm.org/citation.cfm?id=3164601> ;

Software: <https://github.com/intelligent-decision-support-systems/automatic-algorithm-selector>

- **Project 6: Impersonal Models for Recognizing a Wide-Range of Daily Life Activities on Smart Devices** (Sep 2016 – Oct 2017)
Role: Co-PI;
Grant Value: 36610 USD = AED 30,000
Publication: <https://doi.org/10.1111/exsy.12242> ;
Software: <https://github.com/intelligent-decision-support-systems/knowledge-based-reasoning-framework>

Research Assistant / PhD Scholar / Uclab, Kyung Hee University, South Korea / Sept 2012 – Sept 2016

- **Project 7: Mining Minds – Core Technology Exploiting Personal Big Data** (Aug 2013 – Sep 2016)
Role: Team Lead/Member/Researcher Assistant
Project URL: <http://www.miningminds.re.kr/>
Publications:
 1. <https://doi.org/10.1016/j.compbiomed.2015.11.013>
 2. <https://doi.org/10.1016/j.eswa.2017.11.006>
 3. <https://ieeexplore.ieee.org/document/8319403>
 4. <https://doi.org/10.1111/exsy.12242>
 5. <https://doi.org/10.1007/s12193-018-0258-2>
- **Project 8: Design & Development of Smart Clinical Decision Support System (CDSS)** (Sep 2012 – Sep 2016)
Role: Team Member
Project URL: <http://smartcdss.com/>
Publications:
 1. <https://doi.org/10.1016/j.cmpb.2017.07.010>
 2. <https://doi.org/10.1016/j.artmed.2015.09.008>
- **Project 9: PULSE – Personalized, Ubiquitous Life-care Decision Support System** (Sep 2012 – Sep 2015)
Role: Team Lead/Researcher
Project URL: <http://uclab.khu.ac.kr/PULSE/>
Publications:
 1. <https://doi.org/10.3390/s150715921>
 2. http://link.springer.com/chapter/10.1007/978-3-319-13102-3_6
 3. <http://ieeexplore.ieee.org/document/7454508>
- **Project 10: ATHENA – Activity-awareness for Human Engaged Wellness Application** (Jan 2014 – Sep 2014)
Role: Team Member/Researcher
Project URLs: http://uclab.khu.ac.kr/resources/publication/J_177.pdf
<http://uclab.khu.ac.kr/ATHENA/>
Publications: <https://doi.org/10.3390/s150715772>
Software: Unified Data Modeler – <https://github.com/leading-light/GUDM>

Research Associate / Laboratoire d'Informatique, Le Mans Univ., France / May 2012 – Sept 2012)

- **Project 11: Development of a Pashto Machine Translation System**
Role: Researcher Associate

Selected Training-Focused Projects and Grants Details

- **Project 12:** NAVTTC PM Youth Skills Development Program (PMYSDP) – Batch 4
Duration: July 2023 –Sept 2023 **Budget:** PKRs. 2,750,000
 - **Project 13:** NAVTTC PM Kamyab Jawan Skills-for-ALL Program – Batch 3
Duration: April 2022 – Sept 2022 **Budget:** PKRs.3,500,798/-
 - **Project 14:** “Skills for All” Hunarmand Pakistan Program, Cohort-B
Duration: March 2021 – Sept 2021 **Budget:** PKRs.4,871,550/-
 - **Project 15:** “Prime Minister’s “Skills for All” Hunarmand Pakistan Program (Kamyab Jawan Initiative)”.
Duration: Feb 2020 – July 2020 **Budget:** PKRs. 3,249,900/-
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PATENTS - UNIFIED DATA MODELING FOR HEALTHCARE DATA

- **Inventors:** Sungyoung Lee, Rahman Ali
 - **Applicant:** Kyung Hee University Industry-Academy Collaboration Foundation, Korean Intellectual Property Act
 - **Registration No.:** 10-1609816; **Registration Date:** March 31, 2016
 - http://uclab.khu.ac.kr/resources/publication/DP_555.pdf --> **Password:** u2950 (to download)
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OPEN SOURCE RESEARCH SOFTWARE

- **AlgoSelector:** Automatic Algorithm Selection Using Case-Based Reasoning.
 - <https://github.com/intelligent-decision-support-systems/automatic-algorithm-selector>
 - **Knowledge-based reasoning framework:** A framework used to generate recommendations based on already stored knowledge.
 - <https://github.com/intelligent-decision-support-systems/knowledge-based-reasoning-framework>
 - **Unified data modeler (GUDM):** A software tool used to fuse heterogeneous datasets into a unified dataset. <https://github.com/leading-light/GUDM>
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PROFESSIONAL SERVICE & LEADERSHIP

- **Lead Guest Editor** for special issues in: *Applied Sciences* (MDPI), *Computer, Materials & Continua* (Tech Science Press), *Scientific Programming Journal* (Hindawi)
- **Reviewer** for prestigious journals including IEEE Access, Expert Systems with Applications, Information Sciences, Multimedia Tools and Applications, Computer, Materials & Continua, and Scientific Programming (all SCIE/SCI Indexed).
- **Focal Person** for Smart Classroom Projects under HEC Pakistan, ensuring seamless integration and collaboration across universities.
- **Master Trainer** for faculty and research students on the adoption and ethical use of AI tools in higher education.
- **Director, Directorate of Distance Education**, University of Peshawar (Feb 2018-June 2019), leading the development of a customized Learning Management System (LMS).

RESEARCH PUBLICATION

Summary: Published 33/39 indexed journal articles with a total impact factor of 135.44+, Citation 2,341 H-index 26 and i-10 index 41, including 16 in Q1, 13 in Q2, and 4 in Q3 journals.

J.No	Year	Detail: Authors, Title, Conference, Date & URL
J39	21 Nov, 2023	Rahman Ali , Zada, M.S.H., Khatak, A.M. et al. Algorithm selection using edge ML and case-based reasoning. Journal of Cloud Computing 12 (1), 162 (2023). https://doi.org/10.1186/s13677-023-00542-3 ", SpringerOpen. [SCIE, IF 3.7] [Category W] [Q1]
J38	17 Nov, 2023	Rahman Ali , Hussain, A., Nazir, S., Khan, S. and Khan, H.U., 2023. Intelligent Decision Support Systems—An Analysis of Machine Learning and Multicriteria Decision-Making Methods. Applied Sciences, 13(22), p.12426. https://doi.org/10.3390/app132212426 [SCIE, IF 2.5] [Category Y] [Q2].
J37	11 Oct, 2023	S. Zhong and Rahman Ali , "Joint Self-Attention Mechanism and Residual Network for Automated Monitoring of Intelligent Sensor in Consumer Electronics," in IEEE Transactions on Consumer Electronics, Vol 70(1), pp. 1302-1309, doi: 10.1109/TCE.2023.3320818. [ESCI, IF 4.3] [Category W] [Q1]. https://ieeexplore.ieee.org/document/10278203/authors#authors
J36	31 July, 2023	Irfan Khan, Xianchao Zhang, Ramesh Kumar Ayyasamy, Rahman Ali , AutoFe-Sel: A Meta-learning based methodology for Recommending Feature Subset Selection Algorithms, KSII Transactions on Internet and Information Systems (TIIS), Vol. 17, No. 7, July 31, 2023, pp. 1773, doi. 10.3837/tiis.2023.07.002 . [SCIE, IF 1.2] [Category X] [Q3]. https://itiis.org/digital-library/54618
J35	23 May, 2023	Ali, W., Zuo, W., Ying, W., Rahman Ali , Rahman, G., & Ullah, I. (2023). Causality Extraction: A Comprehensive Survey and New Perspective. Journal of King Saud University - Computer and Information Sciences, Volume 35, Issue 7, July 2023, 101593. Elsevier [SCIE, IF 5.2] [Category W] [Q1] https://doi.org/10.1016/j.jksuci.2023.101593
J34	29 June, 2023	Rahman Ali , Jamil Hussain, and Seung Won Lee. "Multilayer perceptron-based self-care early prediction of children with disabilities." DIGITAL HEALTH 9 (2023): 20552076231184054, SAGE Publishing. [SCIE, IF 2.9] [Category W] [Q2] https://journals.sagepub.com/doi/full/10.1177/20552076231184054
J33	27 Feb, 2023	Ali, Wajid, Wanli Zuo, Ying Wang, and Rahman Ali. 2023. "Toward a Multi-Column Knowledge-Oriented Neural Network for Web Corpus Causality Mining" Applied Sciences Vol. 13, no. 5: 3047. [SCIE, IF 2.5] [Category W] [Q2] https://doi.org/10.3390/app13053047
J32	10 Oct, 2022	Rahman Ali , Asmat Ali, Farkhund Iqbal, Mohammed Hussain, Farhan Ullah, "Deep Learning Methods for Malware and Intrusion Detection: A Systematic Literature Review", Security and Communication Networks, vol. 2022, Article ID 2959222, 31 p.2959222. Hindawi. https://www.hindawi.com/journals/scn/2022/2959222/ [SCIE, IF 1.968] [Category W] [Q2].
J31	5 Oct, 2022	Rahman Ali , Farkhund Iqbal, Muhammad Sadiq Hassan Zada, "Multicriteria Decision Making for Carbon Dioxide (CO2) Emission Reduction", Scientific Programming, vol. 2022, Article ID 2333821, 14 pages, 2022. https://www.hindawi.com/journals/sp/2022/2333821/ , Hindawi. [SCIE, IF 1.672] [Category W] [Q3].
J30	01 Oct, 2022	Ali, Wajid, Wanli Zuo, Rahman Ali , Xianglin Zuo, Gohar Rahman, Zuo, X. and Ullah, I.. 2022. Towards Improving Causality Mining using BERT with Multi-level Feature Networks", KSII Transactions on Internet and Information Systems (TIIS), 16(10), pp.3230-3255. Korea Internet Information Society https://papersearch.net/thesis/article.asp?key=3976696 [SCIE, IF 1.2] [Category W] [Q3]

- J29 18 Aman, Fazal, Azhar Rauf, **Rahman Ali**, Jamil Hussain, and Ibrar Ahmed. "Balancing Complex Signals for Robust Predictive Modelling." *Sensors* 21, no. 24 (2021): P-8465. <https://www.mdpi.com/1424-8220/21/24/8465> [SCIE, IF 3.4] [Category W] [Q2]
Dec, 2021
- J28 27 Ali, Wajid, Wanli Zuo, **Rahman Ali**, Xianglin Zuo, and Gohar Rahman. 2021. "Causality Mining in Natural Languages Using Machine and Deep Learning Techniques: A Survey" *Applied Sciences* Vol.11, no. 21: 10064. <https://doi.org/10.3390/app112110064>. [SCIE, IF 2.5] [Category "W"] [Q3].
Oct, 2021
- J27 2021 **Ali, Rahman.**, Sajjad, M., Iqbal, F., Zada, M. S. H., & Hussain, M. (2021). Reducing CO2 Emission Using EDA and Weighted Sum Model in Smart Parking System. *International Journal of Computer and Information Engineering*, 15(2), 107-112.
<https://tinyurl.com/rhu5sy35> [SCIE, IF 0.0] [Category] [Q4]
- J26 28 Ud Din, S.; Jan, Z.; Sajjad, M.; Hussain, M.; **Ali, Rahman.**; Ali, A.; Lee, S. Secure Exchange of Medical Data Using a Novel Real-Time Biometric-Based Protection and Recognition Method. *Electronics* 2020 Nov 28;9(12).
Nov, 2020
<https://www.mdpi.com/2079-9292/9/12/2013> [SCIE, IF 2.6] [Category "X"] [Q2].
- J25 7 Jan, Khan, Irfan, Xianchao Zhang, Mobashar Rehman, and **Rahman Ali**. "A literature survey and empirical study of meta-learning for classifier selection." *IEEE Access*, 8 (2020): 10262-10281.
2020
<https://ieeexplore.ieee.org/abstract/document/8951014/> [SCIE, IF 3.4] [Category "W"] [Q1]
- J24 19 Zubair Asghar, Ammara Habib, Anam Habib, Adil Khan, **Rahman Ali**, Asad Khattak, "Exploring Deep Neural Networks for Rumor Detection", *Journal of Ambient Intelligence and Humanized Computing*, **Springer**, 2019, Pages 1-19. <https://link.springer.com/article/10.1007/s12652-019-01527-4> [SCIE, IF 3.2] [Category "W"] [Q1].
Oct, 2019
- J23 10 Maqbool Ali, **Rahman Ali**, Wajahat Ali Khan, Caren Han, Jae Hon bong, Tae Ho Hur, Doyan Kim, Sungyoung Lee, Byeong.Ho Kang. "A data-driven knowledge acquisition system: An end-to-end knowledge engineering process for generating production rules", *IEEE Access*, Volume 6., Issue 1, December 2018, Pages 15587-15607 <https://ieeexplore.ieee.org/document/8319403> [SCIE, IF 3.4] [Category W] [Q1].
March , 2018
- J22 01 Jamil Hussain, Anees Ul Hassan, **Rahman Ali**, Muhammad Afzal, Shujaat Hussain, Jaehun Bang, Oresti Banos, Muhammad Bilal Amin, Byeong Ho Kang and Sungyoung Lee, "Model-based adaptive user interface based on context and user experience evaluation", *Journal on Multimodal User Interfaces*, **Springer** (2018) 12: 1. <https://doi.org/10.1007/s12193-018-0258-2> [SCIE-, IF. 2.2] [Category W] [Q2].
Feb, 2018
- J21 5 Jan, Muhammad Afzal, Ph.D. Imran Ali, **Rahman Ali**, Maqbool Hussain, Taqdir Ali, Wajahat Ali Khan, Muhammad Bilal Amin, Oresti Banos, Sungyoung Lee. "Personalization of wellness recommendations using contextual interpretation". *Expert Systems with Applications*, **Elsevier**. Volume 96, 15 April 2018, Pages 506-521. <https://doi.org/10.1016/j.eswa.2017.11.006> [SCIE, IF. 7.5] [Category W] [Q1]
2018
- J20 7 Feb, **Rahman Ali**, Muhammad Afzal, Muhammad Sadiq, Maqbool Hussain, Taqdir Ali, Asad Masood Khatak, Sungyoung Lee. "Knowledge-Based Reasoning and Recommendation Framework for Intelligent Decision Making". *Expert Systems*, **Wiley Online Library**, 7 February 2018. <https://doi.org/10.1111/exsy.12242> [SCIE, IF. 3.0] [Category W] [Q2].
2018
- J19 2017 Ahmad, Rashid, Mohammad Abid, and Rahman Ali. "Identification and Resolution of Ambiguities using AV Mapping Algorithm for Query Transformation: Ambiguities Resolution for Query Transformation." *Proceedings of the Pakistan Academy of Sciences: A* 54.4 (2017): 347-364. [IF. 0.0] [Category Y].
<http://www.paspk.org/index.php/PPAS-A/article/view/359>
- J18 10 Taqdir Ali, Maqbool Hussain, Wajahat Ali Khan, Muhammad Afzal, Jamil Hussain, **Rahman Ali, et al.**, "Multi-model-based interactive authoring environment for creating shareable medical knowledge", *Computer Methods and Programs in Biomedicine*, **Elsevier**, Volume 150, October 2017, Pages 41-72 .
Aug, 2017

<https://doi.org/10.1016/j.cmpb.2017.07.010> [SCIE, IF. 4.9] [Category W] [Q1].

- J17 1 Rahman Ali, Sungyoung Lee, Tae Choong Chung. "Accurate multi-criteria decision-making methodology for recommending machine learning algorithm". Expert System with Application, *Elsevier* 1;71:257-78, April 2017. <https://doi.org/10.1016/j.eswa.2016.11.034> [SCIE, IF: 7.5] [Category W] [Q1].
- J16 5 Nov, 2016 Siddiqi, Muhammad Hameed, **Rahman Ali**, Muhammad Idris, Adil Mehmood Khan, Eun Soo Kim, Min Cheol Whang, and Sungyoung Lee. "Human facial expression recognition using curvelet feature extraction and normalized mutual information feature selection, Multimedia Tools and Applications, *Springer*, (ISSN: 1380-7501, Volume 75 Issue 2, January 2016, Pages 935-959 <http://link.springer.com/article/10.1007/s11042-014-2333-3>) [SCIE, IF: 3.0] [Category W] [Q1].
- J15 1 Feb, 2016 **Rahman Ali**, Siddiqi, Muhammad Hameed, Muhammad Afzal, Maqbool Hussain, Maqbool Ali, and Sungyoung Lee, Byeong Ho Kang. "Multimodal Hybrid Reasoning Methodology for Personalized Wellbeing Services". Computers in Biology and Medicine, *Elsevier*, Volume 69, 1 February 2016, Pages 10-28. <https://doi.org/10.1016/j.compbiomed.2015.11.013> [SCI, IF. 7.0] [Category W] [Q1],
- J14 4 Feb, 2015 **Rahman Ali**, Muhammad Hameed Siddiqi, and Sungyoung Lee. "Rough set-based approaches for discretization: a compact review." Artificial Intelligence Review, *Springer*, August 2015, Volume 44, Issue 2, pp 235–263 <https://doi.org/10.1007/s10462-014-9426-2> [SCI, IF: 10.7] [Category W] [Q1].
- J13 3 July, 2015 **Rahman Ali**, Siddiqi, Muhammad Hameed, Jamil Ahmad, Hussain Maqbool, and Sungyoung Lee. "H2RM: A Hybrid Rough Set-based Reasoning Model for Diagnosis and Management of Diabetes Mellitus". Sensors, *MDPI*, Vol.15, Issue 7, pp.15921-15951, 3rd July 2015. <https://doi.org/10.3390/s150715921> [SCIE, IF. 3.4] [Category W] [Q2].
- J12 2 July, 2015 **Rahman Ali**, Siddiqi, Muhammad Hameed, Muhammad Idris, and Sungyoung Lee. "GUDM: Automatic Generation of Unified Datasets for Learning and Reasoning in Healthcare". Sensors, *MDPI*, Vol.15, Issue 7, pp.15772-15798., 2nd July 2015. <http://doi.org/10.3390/s150715772> [SCIE, IF. 3.4] [Category W] [Q2].
- J11 28 Oct, 2015 M Hussain, M Afzal, T Ali, **Rahman Ali**, WA Khan, A Jamshed, S Lee, BH Kang, and Sungyoung Lee. "Data-driven knowledge acquisition, validation, and transformation into HL7 Arden Syntax". Artificial intelligence in medicine, *Elsevier*. 2015.09.008, 28th Oct 2015. <https://doi.org/10.1016/j.artmed.2015.09.008> [SCI, IF. 6.1] [Category W] [Q1].
- J10 24 Feb, 2015 Siddiqi, Muhammad Hameed, **Rahman Ali**, Adil Mehmood Khan, Young-Tack Park, and Sungyoung Lee. "Human Facial Expression Recognition Using Stepwise Linear Discriminant Analysis and Hidden Conditional Random Fields. "IEEE Transactions on Image Processing", *IEEE*, Vol.24, No.4, pp.1386-1398, 24 February 2015. <http://doi.org/10.1109/TIP.2015.2405346> [SCI, IF: 10.8] [Category W] [Q1].
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Summary: presented in 29 premium conferences world-wise with a best presentation award in Toyama Japan.

C.No	Year	Detail: Authors, Title, Conference, Date & URL
C29	2024	Khan, I., Zhang, X., Ali, Rahman . and Habib, M., 2024, December. Meta-Learning for Automated Algorithm Selection in Healthcare: Enhancing Clinical Outcomes through Data-Driven Recommendation. In 2024 International Conference on IT and Industrial Technologies (ICIT) (pp. 1-6). IEEE. DOI: 10.1109/ICIT63607.2024.10859997 https://ieeexplore.ieee.org/abstract/document/10859997/
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MS/M.PHIL/PHD RESEARCH SUPERVISION

MS/M.phil research thesis supervision (current/completed)

- 1) **Mr. Hamid Ali** (MS, Department of Computer, University of Peshawar, 2025-2027)
 - **Thesis:** Accurate Outlier Detection Methodology using Meta-Learning.
- 2) **Mr. Bilal Ahmad** (MS, Department of Computer, University of Peshawar, 2025-2027)
 - **Thesis:** AutoML for Optimum Performance Probabilistic Algorithms Selection oblems.
- 3) **Mr. Sanaulhaq** (MS, Dept. of Computer, IBMS, Agriculture University of Peshawar, 2022-25)
 - **Thesis:** Comparative Analysis of ML Algorithms for Intrusion Detection in Cybersecurity.

PhD research thesis supervision (completed)

- 4) **Dr. Fazal Aman** (PhD, University of Peshawar, 2022)
 - **Thesis:** Efficient Predictive Modeling in Modern Interpolation Regime by the Smoothing Effect through Balancing Normal and Complex Signals
- 5) **Dr. Wajid Ali** (Online) (PhD, Jilin University, China, Dec 01, 2023)
 - **Thesis:** Causality Mining in Natural Language Text using Deep Neural Networks
- 6) **Mr. Irfan Khan** (Online) (PhD, Dalian University of Technology, China, Sept 12, 2024)
 - **Thesis:** Meta-Learning-Based Optimisation Methods for Automated Machine Learning

EDITOR AND REVIEWER OF JOURNALS

S#	Name of Journal	Role	Status
8	Applied Sciences, MDPI "Multi-Criteria Decision Making (MCDM) Using Artificial Intelligence (AI)". https://www.mdpi.com/journal/applsci/special_issues/I5935856EE	Lead Guest Editor	Closed: 20 June 2023
7	Computer, Materials & Continua – Tech Science Press "Big Data Analysis for Healthcare Applications" https://www.techscience.com/cmc/special_detail/big-data-analytics	Lead Guest Editor	Closed: 30 May 2023
6	Scientific Programming Journal, Hindawi Publisher - Organized Special Issue on the titled: "AI-enabled Decision Support System: Methodologies, Applications, and Advancements 2021." https://www.hindawi.com/journals/sp/si/120492/	Lead Guest Editor	Closed: 04 Mar 2022
5	Scientific Programing Journal, Hindawi Publisher - Organized Special Issue on the titled: "Intelligent Decision Support Systems Based on Machine Learning and Multicriteria Decision-Making", 2020. https://www.hindawi.com/journals/sp/si/295240/	Lead Guest Editor	Closed: 28 Feb 2020
4	Multimedia Tools and Applications (SCIE Indexed)	Reviewer	Ongoing
3	Information Sciences (SCI Indexed)	Reviewer	Ongoing
2	Expert Systems with Application (SCIE Indexed)	Reviewer	Ongoing
1	IEEE Access (SCIE Indexed)	Reviewer	Ongoing

INVITED TALKS & EDUCATIONAL WORKSHOPS

- **"No-code & Low-code AI&ML for Intelligent Decision Making"**, Riphah International University, Malakand, KP, Pakistan Campus (July 1, 2025)
- **"Academic Excellence through AI: Boosting Teaching, Research, and Administration in Higher Education using AI"**, CHRCD, Univrsity of Peshawar, Pakistan (2024)
- **"AI for Research - A Big Picture"**, Academic Leaders, HED and Univ. of Peshawar, Pakistan (2024)
- **"Automatic Selection and Configuration of ML Algorithms"** - ICCIS2024, KUST, Pakistan.
- **"End-to-End Machine Learning Process using Weka"** – Office of Research and Innovation Center, Fatima Jinnah Women University, Rawalpindi (2022)
- **"Systematic Methodology of Research and Development"** – Center for Human Resource and Career Development, University of Peshawar (2021)
- **"Research Methodology"** – Center for Human Resource and Career Development, University of Peshawar (2021)
- **"Machine Learning Algorithm Selection and Configuration"** – Department of Computer Science & Engineering, University of Malaya, Malaysia (2018)
- **"Writing, Citing & Plagiarism"** – ORIC, University of Peshawar (2017)

INTERNATIONAL LINKAGES/ PARTICIPATION IN RESEARCH EVENTS/CONFERENCES

- i. Research Associate - Laboratoire d'Informatique de l'Université du Mans (LIUM) – May 2012 – Sep 2012
 - ii. PhD Study - (Kyung Hee University) - Sep 2012 – Sep 2016
 - iii. Main Presenter in - (UCAmI 2014), Belfast, United Kingdom - 2014
 - iv. Main Presenter in - (ACM IMCOM 2018), LANGKAWI, Malaysia – 2018
 - v. Main Presenter in - (SCIS-ISIS.2018), Toyama, Japan - 2018
 - vi. Main Presenter in - (AECT2019), Islamic Univ of Madinah, KSA – 2019
-

COUNTRIES VISITED FOR ACADEMIC / COLLOBORATION PURPOSES

- i. France - Research Associate - Laboratoire d'Informatique de l'Université du Mans
 - ii. South Korea – Pursuing PhD Study - (Kyung Hee University)
 - iii. United Kingdom – Attending UCAMi 2014 - Ulster University, Belfast, Northern Ireland
 - iv. Malaysia - Attending ACM IMCOM 2018, LANGKAWI
 - v. Japan - Attending (SCIS-ISIS.2018), Toyama
 - vi. Kingdom of Saudi Arabia – Attending AECT2019, Islamic Univ of Madinah
-

REFERENCES

1.	Prof. Dr. Asad Masood Khatak, <i>Professor, College of Technological Innovation, Zayed University, Abu Dhabi, UAE</i> asad.khattak@zu.ac.ae	Teacher & Mentor during PhD Study
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4.	Prof. Dr. Sungyoung Lee, <i>Director Ubiquitous Computing Lab, Department of Computer Engineering, Kyung Hee University, South Korea.</i> sylee@oslab.khu.ac.kr	PhD Supervisor