

Dr. MUHAMMAD HAMID

HEC Approved Ph.D. Supervisor.

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Assistant Professor (Computer Science)

Department of Computer Science, GC Women University, Sialkot, Pakistan.

CAREER HIGHLIGHTS

- ◆ I have 13+ years of experience (5+ year's post-Ph.D.) in teaching, research and developing computer/mobile applications.
- ◆ I am Higher Education Commission (HEC) Approved Ph.D. Supervisor.
- ◆ I have secured the Best Researcher Award of 2023 at GC Women University, Sialkot, showcasing my dedication and excellence in research.
- ◆ I have published 30+ journal articles (cumulative IF more than 70+ with more than 550 citations), 03 conference papers and 05 book chapters.
- ◆ I have published a book titled 'Recent Trends in Livestock Innovative Technologies with the publisher Bentham Books in 2023.
- ◆ Member of Board of Studies, Department of Computer Science, GC Women University, Sialkot, Pakistan and UVAS, Lahore Pakistan.
- ◆ I am the PMO for final-year projects in BSCS and BSIT programs and the coordinator for the MSCS program
- ◆ I am a Technical Program Committee (TPC) member of the 03 International Conference & Workshop and an Advisory Board Member of another International Conference & Workshop.
- ◆ I am review member of 09 international journals and 01 national journal.
- ◆ Currently, 05 of my articles are under review in different well-reputed international journals.
- ◆ Two of my research projects were shortlisted by Ignite Pakistan.

ACADEMIC CAREER

Ph.D. (CS)

Session: 2015-2019

Thesis title **“Intelligent Recommender and Decision Support System for Effective Management of Software Projects”**

(Pak & Canada)

CGPA: **3.40**

MS (CS)

Session: 2012-2014

Thesis title **“Extended SCRUM Model Using Software Reliability Engineering”**

The University of Lahore.

CGPA: **3.57**

TEACHING & COACHING EXPERIENCE

- ◆ 09 May 2023 to date: Assistant Professor Computer Science, Department of Computer Science with GC Women University, Sialkot, Pakistan.
- ◆ 26 July 2011 to 08 May 2023: Lecturer / Software Engineering of Computer Science, UVAS, Lahore, Pakistan.
- ◆ Supervisor and External Examiner of MPhil and Undergraduate Final Year Projects at multiple universities (COMSATS University Islamabad, Lahore Campus, Lahore Garrison University, University of Education, Superior University and Beacon house National University (BNU), etc.

AREA OF INTEREST

- ◆ Artificial Intelligence (AI),
- ◆ Software Engineering

PROJECTS DEVELOPED

- ◆ Project entitled “Course Teaching System” (<http://soft.uvas.edu.pk>).
- ◆ Project entitled “Project Amount Management System” (<http://pams.uvas.edu.pk>).
- ◆ Project entitled “Profile Management System” (<http://scs.uvas.edu.pk>).
- ◆ Project entitled “University Website.” (<http://www.uvas.edu.pk/index.php>)
- ◆ Project entitled “Extended Scrum Model Using Software Reliability Engineering.
- ◆ Project entitled “Intelligent Recommender and Decision Support System for Effective Management of Software Projects”.
- ◆ AI for development of Smart Livestock Farming etc.

CATEGORY: JOURNAL

Sr. #	Title	Impact Factor
1.	Shabbir, A., Hamid, M. , El-Latif, A. A. A., Almousa, M., Elsayed, R. A., Ghaznavi, W., ... & Ateya, A. A. (2025). Aggregation-based partitioning algorithm for traffic congestion in MapReduce. <i>Journal of Big Data</i> , 12(1), 73.	8.6
2.	Saeed-Uz-Zaman, Bin Li, Muhammad Hamid , Muhammad Saleem, Muhammad Aman. A4FL: Federated Adversarial Defense via Adversarial Training and Pruning Against Backdoor Attack. in IEEE Access, 2025 , doi:10.1109/ACCESS.2025.3568275.	3.4
3.	Leveraging Dynamic Fuzzification to Mitigate Fraudulent Profiles on Social Networking Platforms. <i>Social Network Analysis and Mining</i> , 2025 (Accepted)	2.3
4.	Saleem, M., Malik, S., Hamid, M. , & Aman, M. (2025). ENHANCED DENGUE DETECTION AND CONTROL USING A FUZZY EXPERT SYSTEM IN ENDEMIC REGIONS. <i>JP Journal of Biostatistics</i> , 25(2), 243-258.	0.1
5.	Awang, M. K., Rashid, J., Ali, G., Hamid, M* , Mahmoud, S. F., Saleh, D. I., & Ahmad, H. I. (2024). Classification of Alzheimer disease using DenseNet-201 based on deep transfer learning technique. <i>PloS one</i> , 19(9), e0304995.	2.9
6.	Hamid, M., Malik, S., & Saleem, M. (2024). RDSSMM: A fuzzy expert system for enhanced malaria diagnosis and management in endemic regions. <i>JP Journal of Biostatistics</i> , 24(3), 517-526.	0.1
7.	F. Zeshan, A. Ahmad, M. I. Babar, M. Hamid* , F. Hajje and M. Ashraf, "An IoT-Enabled Ontology-Based Intelligent Healthcare Framework for Remote Patient Monitoring," in <i>IEEE Access</i> , vol. 11, pp. 133947-133966, 2023 , doi: 10.1109/ACCESS.2023.3332708.	3.476
8.	Akram, A., Rashid, J., Hajje, F., Yaqoob, S., Hamid, M. , Arshad, A., & Sarwar, N. (2023). Recognizing Breast Cancer Using Edge-Weighted Texture Features of Histopathology Images. <i>Computers, Materials & Continua</i> , 77(1).	3.86
9.	Abbas, S. W., Hamid, M. , Alkanhel, R., & Abdallah, H. A. (2023). Official Statistics and Big Data Processing with Artificial Intelligence: Capacity Indicators for Public Sector Organizations. <i>Systems</i> , 11(8), pp.1-17. doi.org/10.3390/systems11080424	1.9
10.	Fatima, R., Zeshan, F., Ahmad, A., Hamid, M. , Filali, I., Alhussan, A. A., & Abdallah, H. A. (2023). Requirement Change Prediction Model for Small Software Systems. <i>Computers</i> , 12(8), pp.1-17. doi.org/10.3390/computers12080164	2.8
11.	Rashid, J., Qaisar, B. S., Faheem, M., Akram, A., & Hamid, M. (2023). Mouth and oral disease classification using InceptionResNetV2 method. <i>Multimedia Tools and Applications</i> , 1-19. doi.org/10.1007/s11042-023-16776-x	3.6
12.	Ramzan, M., Hamid, M. , Alhussan, A. A., AlEisa, H. N., & Abdallah, H. A. (2023, May). Accurate Prediction of Anxiety Levels in Asian Countries Using a Fuzzy Expert System. In <i>Healthcare</i> (Vol. 11, No. 11, p. 1-16). https://doi.org/10.3390/healthcare11111594	2.8
13.	Saeed, M. U., Dikaos, N., Dastgir, A., Ali, G., Hamid, M. , & Hajje, F. (2023). An automated deep learning approach for spine segmentation and vertebrae recognition using computed tomography images. <i>Diagnostics</i> , 13(16), pp.1-17. doi.org/10.3390/diagnostics13162658	3.6

14.	Muhammad Saleem and Muhammad Hamid* (2023), "Consciousness, Cognition and Neural Networks in Brain: Advances and Perspectives in Neuroscience." International Journal of Computer Science and Network Security (IJCSNS), vol.23 No.2, 47-54. (ESCI). https://doi.org/10.22937/IJCSNS.2023.23.2.5	HEC (Y)
15.	Hamid, M. , et al. (2021). Analysis of Software Success Through Structural Equation Modeling. Intelligent Automation and Soft Computing, 31(3), 1689–1701. doi:10.32604/iasc.2022.020898	1.64
16.	M. Hamid et al., (2020), "An Intelligent Recommender and Decision Support System (IRDSS) for Effective Management of Software Projects," in IEEE Access, vol. 8, pp. 140752-140766. doi:10.1109/ACCESS.2020.3010968	3.74
17.	M. Hamid et al., (2020), "Intelligent Recommender and Decision Support System for Effective Handling of IT Projects", Journal of Intelligent & Fuzzy Systems, 38, 2635-2647.doi:10.3233/JIFS-179550	1.85
18.	Hamid, M. , et al., (2019), "Factors Contributing in Failures of Software Projects". International Journal of Computer Science and Network Security (IJCSNS), vol.19 No.5, 62-77. (ESCI)	HEC (X)
19.	Hamid, M. , Yousaf, R., & Munawar, S. (2017). Extended Scrum Process Model Using Software Reliability Engineering Concerns. Journal of Information Communication Technologies and Robotics Applications (JICTRA). ISSN#2226-3683, 8, 1-10.	HEC (Y)
20.	Noreen, I.; Hamid, M. ; et al. (2021), Hand Pose Recognition Using Parallel Multi Stream CNN. <i>Sensors</i> , 21, 8469. https://doi.org/10.3390/s21248469	3.57
21.	Daniyal Baig, Tahir Alyas, Muhammad Hamid , et al., (2021). "Bit Rate Reduction in Cloud Gaming Using Object Detection Technique." Tech Science press no. 68 (3):3653-3669. doi: 10.32604/cmc.2021.017948.	4.89
22.	Nadia Tabassum, Abdul Rehman, Muhammad Hamid* , et al. (2021). "Intelligent Nutrition Diet Recommender System for Diabetic's Patients." Intelligent Automation and Soft Computing no. 30 (1):319. doi: doi:10.32604/iasc.2021.018870.	1.64
23.	Nadia Tabassum, Tahir Alyas, Muhammad Hamid* , et al. (2021), "Hyper-Convergence Storage Framework for EcoCloud Correlates". CMC-Computers Materials and Continua, 70(1), 1573–1584. doi:10.32604/cmc.2022.019389	3.772
24.	Nadia Tabassum, Tahir Alyas, Muhammad Hamid* , et al. (2021), "QoS Based Cloud Security Evaluation Using Neuro Fuzzy Model". CMC-Computers Materials and Continua, 70(1), 1127–1140. doi:10.32604/cmc.2022.019760	3.772

25.	Nadia Tabassum, Abdul Rehman, Muhammad Hamid* , et al., (2021). "Semantic Analysis of Urdu English Tweets Empowered by Machine Learning", Intelligent Automation and Soft Computing no. 30 (1) :175-186. doi:10.32604/iasc.2021.018998	1.64
26.	Jaleel Nazir, Muhammad Waseem Iqbal, Tahir Alyas, Muhammad Hamid , et al., (2021), "Load Balancing Framework for Cross-Region Tasks in Cloud Computing". CMC-Computers Materials and Continua, 70(1), 1479–1490. doi:10.32604/cmc.2022.019344	3.772
27.	Saadia Malik, Nadia Tabassum, Muhammad Saleem, Muhammad Hamid* , et al. (2021). "Cloud-IoT Integration: Cloud Service Framework for M2M Communication." Intelligent Automation & Soft Computing, 30 (1):471-480. DOI:10.32604/iasc.2022.019837	1.64
28.	Munawar, S., Hamid, M. , & Lodhi, S. A. (2018). Quantum Bayesian Game Modeling for Intrusion Detection. The Nucleus, 54(4), 214-218.	HEC (Y)
29.	Munawar, S., Toor, S. K., Aslam, M., & Hamid, M. (2018) . Move to Smart Learning Environment: Exploratory Research of Challenges in Computer Laboratory and Design Intelligent Virtual Laboratory for eLearning Technology. EURASIA Journal of Mathematics, Science and Technology Education, 14(5), 1645-1662.	1.01
30.	Raza, B., Ali, M., Naseem, K., Moeed, A., Ahmed, J., & Hamid, M. (2018) . Impact of trait mindfulness on job satisfaction and turnover intentions: Mediating role of work–family balance and moderating role of work–family conflict. Cogent Business & Management, 5(1), 1-20.	HEC (x)
31.	Munawar, S., Hamid, M. , Khan, M. S., Ahmed, A., & Hameed, N. (2017). Health Monitoring Considering Air Quality Index Prediction Using Neuro Fuzzy Inference Model: A Case Study of Lahore, Pakistan. Journal of Basic and Applied Sciences, 13, 123-132.	HEC (Y)
	Total Impact Factor	72.372

CATEGORY: CONFERENCE

1. **M. Hamid**, F. Zeshan and A. Ahmad, "Fuzzy Logic-based Expert System for Effort Estimation in Scrum Projects," 2021 International Conference on Decision Aid Sciences and Application (DASA), 2021, pp. 761-765, doi: 10.1109/DASA53625.2021.9682239.
2. R. Fatima, F. Zeshan, A. Ahmad, **M. Hamid**, A. Ahmad and S. A. Tahir, "Software Requirements Change Prediction Model," 2021 International Conference on Decision Aid Sciences and Application (DASA), 2021, pp. 607-612, doi: 10.1109/DASA53625.2021.9682217.
3. S. Munawar, **M. Hamid**, S. K. Toor, M. Aslam and A. M. Martinez Enriquez, "Pedagogical Agent-based Cognitive Architecture for Intelligent Virtual Laboratory Cloud based HCI ELearning Environment," in International Conference on Open and Innovative Education (ICOIE 2017), Hong Kong, 2017.

CATEGORY: BOOK & BOOK CHAPTER

1. Ahmad, A., Zeshan, F., **Hamid, M.**, Marriam, R., & Samreen, A. (2022). Application of Gamification in Modern Education. In *Handbook of Research on Promoting Economic and Social Development Through Serious Games* (pp. 60-75). IGI Global.
2. Munawar, S., Toor, S. K., & **Hamid, M.** (2019). Designing an Intelligent Virtual Laboratory Using Intelligent Agent Technology. In *Cases on Smart Learning Environments* (pp. 330-345). IGI Global.
3. **Muhammad Hamid**, Nadia Mushtaq, Hafiz Ishfaq Ahmad and Ghulam Haider (2023). Use of Artificial Intelligence in Assessing the Livestock Management. Recent Trends in Livestock Innovative Technologies (158-169). Bentham Science.
4. **Muhammad Hamid** and Hafiz Ishfaq Ahmad (2023). Monitoring Animal Behavior and Control Using Wireless Sensor Technologies. Recent Trends in Livestock Innovative Technologies (144-157). Bentham Science.
5. Furqan Awan, Muhammad Muddassir Ali and **Muhammad Hamid** (2023). Omics and Bioinformatics for Livestock Production. Recent Trends in Livestock Innovative Technologies (67-87). Bentham Science.
6. Hafiz Ishfaq Ahmad and **Muhammad Hamid**. Recent Trends in Livestock Innovative Technologies (144-157). Bentham Science Publishers (2023).
<https://doi.org/10.2174/97898151650741230701>

GUEST EDITORS

I served as a Guest Editor for the special issue titled 'The Next Generation of Artificial Intelligence and the Intelligent Internet of Things' in the year 2023-2023 for the journal CMC-Computers, Materials & Continua, which has a W category and impact factor of 3.1.
https://www.techscience.com/cmc/special_detail/ai-iot

BSIT,BSCS and BS (Software Engineering) and M.Sc. (IT) Project Supervision

Sr. No.	Thesis / Project Supervised	Students Names	Status
1.	Decision Support System	Khubaib Latif Muhammad Adeel Ashraf Muhammad Atif Nadeem	Completed

2.	AMM OOD Job Portal	Muhammad Alamtab Saeed Syed M. Mohsin Zaheer Moeed Fayyaz	Completed
3.	Mobile Reporting System	Muhammad Ali, Muhammad Ahmad	Completed
4.	Project Showcase to Empower Future Creators	Merab meer, Asma Imran, Eman Shahbaz	Completed
5.	An Intelligent Recommender and Decision Support System for Development of Smart Dairy Farming	Noreen Iqbal, Aqsa shehzadi, Ayesha Manzoor	Completed
6.	Smart Dairy Farm (IOT base)	Ayesha maqsood, Areeba Mudassir, visha Naeem	Completed
7.	Thyroid Disease Identification & Classification using Machine Learning Approach	Fatima iftikhar, Sana Sajid, Arooj Tariq	Completed
8.	Deep Fake Methodology	Ayesha Aslam, Alia zia	Completed
9.	An AI Driven Framework for Efficient IT Expert Selection among Multiple CV's	Hadia Imran, Nabila Shehzadi, Sehar Gazhanfer	Completed
10.	ADS DIAGNOSIS CHAT BOT	Minahil Amir, Arshiya khan, fatima ramzan	Completed
11.	Conference PAPER HUB	Zainab bajwa, Zainab Dar, Maida Ahmed	Completed

Member of Review Committee Journals

1. IEEE Transaction on Big Data (IF 4.271)
2. Peer J (IF 3.061)
3. CMC-Computers Materials & Continua (IF 3.772)
4. IEEE Access (IF 3.367)

5. Journal of Information Science (IF 1.372)
6. Elsevier, Alexandria Engineering Journal (IF 3.69)
7. Intelligent Automation & Soft Computing (IF 1.647)
8. Journal Clinical Epidemiology (IF 5.814)
9. Computer Methods in Biomechanics and Biomedical Engineering (IF 1.763)
10. Journal of Computer Science and Information Technology (LGURJCSIT), Lahore, Garrison University.

Program / Reviewer Committee Member

1. Advisory Board Member of the 3rd International Workshop on Knowledge Management in Ambient Intelligent Systems (KnowMAIS-24). The workshop will take place in conjunction with the 15th International Conference on Ambient Systems, Networks and Technologies (ANT 2024) April 23-25, 2024, Hasselt, Belgium. <https://easychair.org/cfp/KnowMAIS-23>
2. Technical Program Committee (TPC) Member of 13th International Conference & Workshop: Knowledge Management in Ambient Intelligent Systems (KnowMAIS). The workshop will take place in conjunction with the 13th International Conference on Ambient Systems, Networks and Technologies (ANT 2022) March 22 - 25, 2022, Porto, Portugal. <https://easychair.org/cfp/KnowMAIS-22>
3. Technical Program Committee (TPC) Member of 12th International Conference & Workshop: “Emerging Advancements and Technologies in Healthcare” Leuven, Belgium, November 1- 4, 2021. <https://easychair.org/cfp/EATH-21>

Formal Training and Workshop

Sr. No.	Name and place of Institution	Leaving Certificate OR Diploma obtained	Years Attended		Major Subjects
			From	To	
1.	The Punjab Institute of Management and Professional Development, Government of Punjab	Certificate attached	13, March	2025.	IT
1.	The Punjab Institute of Management and Professional Development, Government of Punjab	Certificate attached	21-22, October	2024.	IT
2.	The Punjab Institute of Management and Professional Development, Government of Punjab	Certificate attached	28.06.2024		IT

3.	The Punjab Institute of Management and Professional Development, Government of Punjab	Certificate attached	April 29th and 30th, 2024.	IT
4.	The Punjab Institute of Management and Professional Development, Government of Punjab	Certificate attached	26.04.2024.	IT
5.	HEC Hand on Training at University of Education.	Certificate attached	05-June-2023 to 09-June-2023	Smart Classroom Project from
6.	Govt. College of Technology for PGA, Allama Iqbal Town, Lahore. Punjab Board of Technical Education	Certificate attached	11-January-2023	Convener/SS IT
7.	University of Veterinary & Animal Sciences, Lahore, Pakistan	Certificate attached	8 February 2022	Empowering Youth through Freelancing
8.	National Vocational & Technical Training Commission. Government of Pakistan	Certificate attached	3-7 January 2022	Development of Curriculum “Digital Marketing”
9.	Lahore Leads University	Certificate attached	14 July 2021	Resource Person, Scientific Writing and Reference Management
10.	University of Veterinary & Animal Sciences, Lahore, Pakistan	Certificate attached	03 November 2020	National Symposium on CRISPR / Cas System
11.	University of Veterinary & Animal Sciences, Lahore, Pakistan	Certificate attached	24 November 2020	Information and Communication Technology (ICT) skills for researchers
12.	National Vocational & Technical Training Commission. Government of Pakistan	Certificate attached	15-19 September 2020	Assessment packages for the trade “Digital Marketing”.
13.	National Vocational & Technical Training Commission. Government of Pakistan	Certificate attached	04-08 August 2020	Review and validation committee meeting for the competency standard of “Digital Marketing”.
14.	National Vocational & Technical Training Commission. Government of Pakistan	Certificate attached	06-10- July 2020	“Occupational Profiling and CS for Internet / Digital marketing”.

15.	University of Veterinary & Animal Sciences, Lahore, Pakistan	Certificate attached	02-March-2020	Resource Person, E-Training Workshop
16.	Govt. Staff Training College, Murree	Certificate attached	19-10-2019 to 24-10-2019	Master Trainer, Training Work Shop on E-Commerce
17.	University of Veterinary & Animal Sciences, Lahore, Pakistan	Certificate attached	April 24, 2019.	Environmental Health Challenges in Pakistan: Probing the Solutions.
18.	Election Commission of Pakistan	Certificate attached	01-07-2018 to 02-07-2018	Training of Presiding and Sr. assistant Presiding officer by Election Commission of Pakistan
19.	University of Veterinary & Animal Sciences, Lahore, Pakistan	Certificate attached	26 June 2018	Resource Person, Endnote X7 Basic
20.	University of Veterinary & Animal Sciences, Lahore, Pakistan	Certificate attached	31, August, 2015 to 02, September, 2015	Indigenous On Campus Training (Phase-II) under HEC
21.	University of Veterinary & Animal Sciences, Lahore, Pakistan	Certificate attached	01, September, 2014 to 05, Sept, 2014	Indigenous On Campus Training (Phase-I) under HEC
22.	GHS, Shahdara, Lahore.	Certificate attached	25-04-2013 to 25-04-2013	Training of Presiding and assistant Presiding officer by Election Commission of Pakistan

LANGUAGE PROFICIENCY

- English, Urdu, Punjabi and Pashto.

REFERENCES

Reference will be given on demand.