

Dr. AMIN UL HAQ

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Google Scolar: <https://scholar.google.com/citations?user=B2YE6IsAAAAJ&hl=en>

Affiliations:

1. Department of Computer systems Engineering, University of computing sciences and Information Technology, Swat.Pakistan.
<https://www.ueas.edu.pk/pages/faculty.php>
2. Institute of Telecommunications, Computer Science and Photonics, Scoula Superiore Sant'Anna (SSSA), Via Moruzzi 1, 56124, Pisa, Italy
3. International Centre for Wavelet Analysis and Its Applications, Big Data Research Institute, University of Electronic Science and Technology of China (UESTC), Chengdu, Sichuan, China

Biography

Dr. AMIN UL HAQ is an experienced researcher with more than 15 years of cutting-edge research and teaching experience in prestigious institutes, including the National University of modern languages (NUML), Abdul Wali Khan University Mardan Bunar campus, and Agricultural University Peshawar Pakistan. He received his Ph.D. in Computer Science (Software Engineering) from the University of Electronic Science and Technology of China. He also completed his Postdoc from the School of Computer Science and Engineering, University of Electronic Science and Technology of China. Also an associate professor in Moh-Uddin Islamic University Azad Kashmir Pakistan. He also working/colliberation with TeCIP Institute Scoula Superiore Sant'Anna (SSSA), Via Moruzzi 1, 56124, Pisa, Italy. Dr Now working as a assistant professor in Department of Computer systems Engineering, University of computing sciences and Information technology, swat.Pakistan. He has first and co-authored more than 120 research papers, including 80 in leading international journals SCI of rank JCR 1, 2, 3, 4, and 7 papers are in JCR rank 1 and Q1 SCI journals (namely Knowledge-based Systems, Expert Systems with Applications, IEEE Journal of Biomedical and Health Informatics, Computer and Electrical Engineering, Scientific Reports, Journal of Ambient Intelligence and Humanized Computing, IEEE Access, and Sensors) and 40 in peer-reviewed international conference proceedings and one Patent. During his career, he has taught various courses at the Undergraduate (UG) and Postgraduate (PG) levels. He regularly organizes timely special sessions and workshops for several Flagship IEEE conferences and is an active member of

the IEEE International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP). Also, sponsor the IDITR IEEE conference. He is an invited reviewer for numerous world-leading high-impact journals (reviewed 70+ journal papers to date). He has more than 5585 Google citations, an h-index of 34, an I-10 index of 65, and an impact factor of more than 201.40, While on web of science h-index is 19, Citation are 1580. and area of research is medical data analysis to diagnose diseases using Machine learning, Deep learning models, Transfer Learning and Federated learning Techniques.

Personal data

Date of birth: 1-4-1983, Passport No: BR1202134, Material status: Married
Mail address: Village and P.O Markhan, tehsil Lal Qilla, District Dir Lower, KPK, Pakistan

Research Expertise and Interests

Disease classification, Intrusion Detection Systems, Wireless sensor network, 5G Network, Multimedia Encryption, Information Security, Human-Computer Interaction, Image Processing, Computer Vision, Machine Learning and Big Data Analytics, IOT, Medical big data, Data science, deep learning, transfer learning and Federated learning.

Education

- **Postdoc 2** (Stenography techniques using AI) , **From july 2024 to july 2025.**

TeCIP Institute Scoula Superiore Sant'Anna (SSSA), Via Moruzzi 1, 56124, Pisa, Italy.

- **Postdoc 1** (Computer Science and Technology) , **From august 2020 to march 2025.**

University of Electronic Science and Technology China (UESTC), China
Advisory: Professor, Jian Ping Li.

- **Ph.D.** Computer Science (Software Engineering), **From September 2017 to July 2020**

- Thesis Title: "Application of machine learning in disease classification."
- Advisory: Professor, Jian Ping Li. Prof JianPingLi
https://faculty.uestc.edu.cn/lijianping/zh_CN/
GPA 3.6

Ganda Hara University Peshawar, Pakistan

- **M.S.**, Computer science (Telecommunication (Telecom& Networking), **From August 2011 to April 2014.**

- Thesis Title: "Secure group communication protocol for multiparty Conferencing over peer to peer networks". CGPA 4.00/3.4.00.

University of Peshawar, Pakistan.

- **M.SC.** computer science, From October 2004 to March 2007.

- 71.77%, 860/1200.

University of Malakand, Pakistan, From July 2002 to September 2004

- **B.SC** computer science.

- 74.6%, 402/550.

FSC GDC Timargara, **kpk Pakistan**, From **July 1999 to July 2002**
Pre Engineering

64% 700/1100

SSC GHSSC Lal Qilla kpk Pakistan, From **March 1997 to June 1999**

Pre Engineering

71% 602/850

Professional Education Bed University of Malakand **Pakistan**

62% 816/1000

And certification **MCITP Microsoft id: 8477489**
CCNA, CCNP, LINUX, MCSE.

Subject study at PhD Level

- Database theory and practice
- Data communication and networking fundamentals.
- Mobile computing
- Multimedia and tools
- Network Security protocols
- Mathematical optimization methods
- Linear algebra and analysis
- Advance operating system
- Advance Networking
- Advance software engineering
- Advance signal processing
- Signal processing
- Data mining and applications
- Machine learning and deep learning
- Middle ware
- Software process Improvement
- Software measurement and metrics, green and sustainable software engineering
- Empirical software engineering
- Case tools in software engineering
- Software re-engineering
- Software Architecture
- Programming languages (C++, C#, Java, Vb.Net, python)

Administrative/Teaching/Research experience

1. **MCB bank** ltd, June 2007 – Oct 2009
2. Lecture in **NUML University** Peshawar campus Pakistan, Feb 2011 – July 2016.
3. Lecture in **Abdul Wali khan University, Buner** Campus, Pakistan, July 2016 – Feb 2017.
4. Lecture in **Agricultural University Peshawar** Pakistan, Feb 2017 – Sep 2017.
5. Postdoc in **University of Electronic Science and Technology of China**, August 2020 – April 2023, Postdoc no. 270468. Emp ID:7200188
6. Research and teaching assistant professor, **USETC** September 2017 – March 2023.
7. Associate professor in **computer science department MIU**, Apri 2023- continue
8. Researcher at **TeCIP Institute Scoula Superiore Sant'Anna (SSSA),Via Moruzzi 1, 56124, Pisa, Italy** 01-July-2024.

9. **Assistant professor**, University of computing sciences and Information technology, swat.Pakista Oct 2025 to date.

Awards

- First position award in B.Sc.
- Academic excellent performance award in Ph.D.
- Excellent Performance Award in Ph.D.
- Achieved China Government Scholarship for Ph.D.
- Ph.D. on CSC scholarship of china government.

Skills: Programming Languages

- Python, MATLAB and C/C++.

Acting as invited Peer Reviewer for (including but not limited Following high-impact journals)

- IEEE Access (IEEE)
- Journal of Information Security and Applications (Springer)
- Wireless Personal Communications (Springer)
- Mobile information system Hindawi
- International journal computer and applications
- Journal of advance in mathematics and computer science
- Current journal applied science and technology
- Elsevier Science Direct ICT express
- Energy & Environment
- Journal of Intelligent and Fuzzy system
- scientific programming
- Mathematical problems in engineering
- Security and communication network
- MDPI sensors
- Journal of healthcare engineering
- Aging US
- Current medicinal chemistry
- Aging cell
- Knowledge-based systems
- IEEE sensors
- Briefings in Bioinformatics.
- Peer J Computer science
- African Educational Research Journal
- The Open Public Health Journal
- International Journal of Remote Sensing and Remote Sensing Letters
- Biomedical Signal Processing and Control
- Artificial Intelligence in Medicine
- IEEE TNNLS
- IEEE TSMC Systems
- Sensors
- IEEE Networks
- Computer in biology and medicine
- Journal of personalized medicine
- Soft computing
- Scientific reports
- Bioinformatics journal
- Plos computational biology

- CMC-Computers, Materials & Continua
- Complex & intelligent systems
- Computerized Medical Imaging and Graphics

Professional Memberships

- Member IEEE.
- Active member of IEEE International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP)
- Active member of IEEE 2022 International Conference on Innovations and Development of Information Technologies and Robotics (IDITR)

Research Publications

Cumulative Impact Factor (as per JCR, 2026): 201.40

Cumulative Google Scholar Citation: 5525+-google scholar link:

<https://scholar.google.com/citations?user=B2YE6IsAAAAJ&hl=en>

Google H-Index: 34

Google i10-Index: 66

Scopus Author ID: 57205168216

Research Gate (RG) Score: 19.

While on web of science h-index is 21, Citation are 1583

Collaboration in projects

I have Collaboration in these projects, and have been published various high level journal papers under these projects, National Natural Science Foundation of China (Grant No. 61370073), the National High Technology Research and Development Program of China (Grant No. 2007AA01Z423), the project of Science and Technology Department of Sichuan province (Grant No. H04010601W00614016).

Projects achieved

70th batch of general funding

Book chapter

Toward analyzing the impact of healthcare treatments in industry 4.0 environmentda self-care case study during COVID-19 outbreak, Chapter 13, pages 243, Publisher Elsevier, Publication date , 2021/11/12, URL:

https://www.google.co.in/books/edition/Data_Science_for_COVID_19/gp0tEAAQBAJ?hl=en&gbpv=1&dq=data+science+for+covid-19+Asif+Faraz&pg=PA243&printsec=frontcover

Special issues Editor

1. Frontiers in Physics “Security, Governance, and Challenges of the New Generation of Cyber-Physical-Social Systems”.
2. Frontiers In Medicine: Cluster-based Intelligent Recommendation System for Hybrid Healthcare Units, <https://www.frontiersin.org/research-topics/61702/cluster-based-intelligent-recommendation-system-for-hybrid-healthcare-units>
3. Computer Systems Science and Engineering , CFP: Special Issue on “Advanced AI Methods for Medical Data Analysis in IoT-Healthcare Systems”
https://www.techscience.com/csse/special_detail/medical_data_analysis

Master Students Supervised and Research Topics

1. Early Stage Diabetes Identification Using Machine Learning Ensemble Techniques.
2. Advance Approach for Accurate Fake News Detection Employing Deep Learning Bidirectional LSTM and Attention Mechanism.
3. A stacking Approach Based on Machine learning Techniques for lungs cancer prediction in healthcare systems.
4. Deep Learning Approach for Deep Feature Extraction and Classification of Brain Tumors Using Magnetic Resonance Imaging.
5. Intelligent Drivers' Drowsiness Detection System Based on Deep Learning Techniques for Safe Driving using eye blink and face images data.
6. Using text mining techniques to analyze student feedback and improve educational outcomes.
7. Brain Tumor Detection Model Based on Deep Learning Techniques Using Clinical Imaging Data.
8. Recurrent Neural Networks and Bidirectional Long Short-Term Algorithms Based Model for Intrusion Detection Systems.
9. Deep learning based CNN-GRU model for Lungs cancer detection.

Journal Articles

1. **Amin Ul Haq ***, Jian Ping Li, Inayat Khan, Bless Lord Y Agbley, Sultan Ahmad, M.Irfan Uddin, Wang, Zhou, Shakir Khan, Iftikhar Alam, DEBCM:Deep learning based enhanced breast invasive ductal carcinoma classification model in IoMT health-care systems, IEEE Journal of Biomedical and Health Informatics, DOI: [10.1109/JBHI.2022.3228577](https://doi.org/10.1109/JBHI.2022.3228577), URL: <https://ieeexplore.ieee.org/document/9982423/#authors>, Published 12 Dec 2022, (SCI JCR 1, IF 7.0772).
2. **Amin Ul Haq ***, Jian Ping Li, Bless Lord Y Agbley , Cobbinah Bernard Mawuli, Zafar Ali, Shah Nazir and Salah Ud Din, A survey of deep learning techniques based Parkinson's disease recognition methods employing clinical data , Expert Systems with Applications, Published 8 July 2022, DOI: <https://doi.org/10.1016/j.eswa.2022.118045>, URL: <https://www.sciencedirect.com/science/article/abs/pii/S0957417422012507?via%3Dihub>, (SCI JCR 1, IF 8.665).
3. **Amin Ul Haq ***, Jian Ping Li, Bless Lord Y Agbley, Asif Khan, Inayat Khan, M.Irfan Uddin, and Shakir Khan, IIMFCBM : Intelligent Integrated Model for Feature Extraction and Classification of Brain Tumors Using MRI Clinical Imaging Data in IoT-Healthcare, IEEE Journal of Biomedical and Health Informatics, vol 2, page(s): 1-9 Published 3 May 2022, PMID: 35503847, DOI: [10.1109/JBHI.2022.3171663](https://doi.org/10.1109/JBHI.2022.3171663), URL: <https://pubmed.ncbi.nlm.nih.gov/35503847/> , (SCI JCR 1, IF 7.0772).

4. **Amin Ul Haq ***, Jian Ping Li , Shakir khan, Cobbinah Bernard Mawul, DACBT:Deep learning approach for classification of brain tumors using MRI data in IoT Healthcare environment” to journal of scientific reports, <https://rdcu.be/cVqU1> , DOI:10.1038/s41598-022-19465-1, published 2022-09-12, (SCI JCR 2, IF 5).
5. **Amin ul Haq ***Jian Ping Li, Zafar Ali, Ajab Khan, Inayat Khan, M.Irfan Uddin, Bless Lord Y.Agbley, Riaz ullah Khan, Stacking approach for accurate Invasive Ductal Carcinoma classification, Computer and Electrical Engineering, Volume 100, Published in 1 April 2022, DOI: <https://doi.org/10.1016/j.compeleceng.2022.107937>, URL: <https://www.sciencedirect.com/science/article/pii/S0045790622002166?dgcid=author> (SCI JCR 2, IF 4.158).
6. **Amin Ul Haq ***, Jian Ping Li , Rajesh Kumar, Zafar Ali , Inayat Khan, M.Irfan Uddin, Bless Lord Y Agbley , MCNN: A Multi-level CNN Model for the Classification of Brain Tumors in IoT-healthcare System, Journal of Ambient Intelligence and Humanized Computing, DOI: 10.1007/s12652-022-04373-z, URL : [https://link.springer.com/epdf/10.1007/s12652-](https://link.springer.com/epdf/10.1007/s12652-022-04373-) 15 September 2022, (SCI JCR 2, IF 3.882).
7. **Amin ul Haq *** , Jian Ping Li, Sulatan Ahmad, Shakir Khan, Mohammed Ali Alshara , Reemiah Muneer Alotaibi, ” Diagnostic Approach for Accurate Diagnosis of COVID-19 Employing Deep Learning and Transfer Learning Techniques through Chest x-ray Images Clinical Data in E-Healthcare” Sensors MDPI, Vol.21 (24) pages 16, published 9 Dec 2021, DOI :10.3390/s21248219, URL: https://susy.mdpi.com/user/manuscripts/review_info/670bea6b6c0a6d1908c7757ee2fa7d15 , (SCI JCR 2 IF 3.8)
8. **Amin ul Haq ***, Jian Ping Li, Muhammad Hammad Memon, Shah Nazir, and Ruinan Sun, “A Hybrid Intelligent System Framework for the Prediction of Heart Disease Using Machine Learning Algorithms”, Hindawi Mobile Information Systems Volume 2018, Published:02-Dec-2018, Article ID 3860146, 21 pages, <https://doi.org/10.1155/2018/3860146>, URL: <https://www.hindawi.com/journals/misy/2018/3860146/>, (SCI JCR 4, IF 1.802).
9. **Amin ul Haq ***, Jian ping li, Muhammad hammad memon, Jalaluddin khan, Asad malik, Tanvir ahmad, Amjad ali, Shah nazir, Ijaz ahad, and mohammad shahid., "Feature Selection Based on L1-Norm Support Vector Machine and Effective Recognition System for Parkinson’s Disease Using Voice Recordings", in IEEE Access, vol. 7, pp. 37718-37734, 2019.doi: 10.1109/ACCESS.2019.2906350, URL: <https://ieeexplore.ieee.org/document/8672565>, (SCI JCR 2, IF 3.745).
10. **Amin ul Haq ***, JianPing Li, Muhammad Hammad Memon, Jalaluddin Khan and Salah Ud Din., “A Novel Integrated Diagnosis Method for Breast Cancer Detection”, journal of intelligent and fuzzy systems, Vol.38, Issue. 2, no. Prepress, pp. 1-16, 2019 Published: 6 Feb 2020. DOI: 10.3233/JIFS-191461, URL: <https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs191461> , (SCI JCR 4, IF 1.851).
11. **Amin ul Haq ***, Jian Ping Li, Jalaluddin khan, Muhammad Hammad Memon, Shah Nazir, Sultan Ahmad, Ghufraan Ahmad khan, Amjad Ali, “Intelligent Machine Learning Approach for Effective Recognition of Diabetes in E-Healthcare Using Clinical Data”, MDPI, Sensors ,published:07-Jun-2020, Volume 20, Issue 9, 2649, doi: 10.3390/s20092649, URL: <https://pubmed.ncbi.nlm.nih.gov/32384737/>, (SCI JCR 3, IF 3.275).
12. **Amin ul Haq ***, Jianping Li, Zafar Ali, Muhammad Abbas, Jalal Uddin khan, Muhammad Hammad Memon and Shah Nazir “Recognition of the Parkinson Disease using a Hybrid Feature Selection Approach”, journal of intelligent and fuzzy systems, Vol.39, Issue. 1, no. Prepress, pp. 1-21, Published: 12-05- 2020. Doi: 10.3233/JIFS-200075, URL: <https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs200075>, (SCI JCR 4, IF 1.851).

13. **Amin ul Haq ***, JianPing Li, and Salah Ud Din, Jalaluddin khan, Asif khan, Abdus Saboor " Heart Disease Identification Method Using machine learning in E-Healthcare", IEEE Access, Vol.8, Issue no.1, published 17-June-2020, on pages: 107562-107582, DOI: 10.1109/ACCESS.2020.3001149 ,URL: <https://ieeexplore.ieee.org/document/9112202> , (SCI JCR 2, IF 3.745).
14. **Amin ul haq ***, Jian ping Li, Abdus saboor , Jalaluddin khan, Samad Wali, Sultan ahmad, Amajd Ali , Ghufraan ahmad khan,Wang Zhou, "Breast cancer detection using supervise and unsupervised feature selection techniques through clinical data", IEEE ACCESS ,vol:9, Electronic ISSN: 2169-3536, Date of Publication: 1 January 2021, Pages: 22090 - 22105 ,DOI:10.1109/ACCESS.2021.3055806 ,URL: <https://ieeexplore.ieee.org/document/9343250> , (SCI JCR3 , IF 3.745).
15. Bless Lord Y. Agbley , Jian Ping Li, **Amin Ul Haq**, Edem Kwedzo Bankas, Inayat Khan, Saeed yousaf, Shakir Khan Ahmad, Raza Khan , Federated Fusion of Magnified Histopathological Images for Breast Tumor Classification in the Internet of Medical Things, IEEE journal of biomedical and health informatics, URL: <https://ieeexplore.ieee.org/document/10068730>, DOI: [10.1109/JBHI.2023.3256974](https://doi.org/10.1109/JBHI.2023.3256974), Published 14 March 2023, (SCI JCR 1, IF 7.0772).
16. Abdus Saboor , Jian Ping Li*, **Amin Ul Haq***, Umer Shehzad , Shakir Khan, Reemiah MuneerAlotaibi & SaadAbdullahAlajlan, DDFC: deep learning approach for deep feature extraction and classification of brain tumors using magnetic resonance imaging in E-healthcare system, Scientific Reports,DOI: <https://doi.org/10.1038/s41598-024-56983-6>, published 18-03-2024, (SCI JCR3 , IF 4.645).
17. Wang Jian, Jian Ping Li, Atif Akbar, **Amin Ul Haq***, Shakir Khan, Reemiah Muneer Alotaibi, Saad Abdullah Alajlan,SA-Bi-LSTM: Self Attention With Bi-Directional LSTM based Intelligent Model for Accurate Fake News Detection to ensured information integrity on social media platforms,IEEE ACCESS,DOI: 10.1109/ACCESS.2024.3382832,vol.12, pages 18, published 2-4-2024, (SCI JCR3 , IF 3.745).
18. Wang Jain, Jian Ping Li*, **Amin Ul Haq***, Shakir Khan, Reemiah Muneer Alotaibi, Saad Abdullah Alajlan,Md Belal Bin Heyat,Feature Elimination and Stacking Framework for Accurate Heart Disease Detection in IoTHealthcare Systems Using Clinical Data,FRONTIERS IN MEDICINE,Published 4-4-2024, (SCI JCR3 , IF 5.095).
19. Wang Zhou, **Amin Ul Haq.***, Laixiang Qiu, Jehan Akbar, Multi-view Social Recommendation via Matrix Factorization with Sub-linear Convergence Rate, Expert Systems with Applications, DOI: <https://doi.org/10.1016/j.eswa.2023.121687> ,URL: <https://www.sciencedirect.com/science/article/abs/pii/S0957417423021899>, Published 23 Sep 2023, DOI: (SCI JCR 1, IF 8.665).
20. Wang Jian, Amin Ul Haq□, Noman Afzal, Shakir Khan, Hadeel Alsolai,Sultan M. Alanazi & Abu Taha Zamani, Developing an innovative lung cancer detection model for accurate diagnosis in AI healthcare systems, Scientific reports, published 2-July-20205, Doi: <https://doi.org/10.1038/s41598-025-03960-2>,URL: file:///C:/Users/aminkhan/Downloads/s41598-025-03960-2.pdf, (SCI JCR3 , IF 4.645).
21. Wang Zhou, **Amin Ul Haq**, Sultan Ahmad, Alia Tabasum, *Differentially private recommender framework with Dual semi-Autoencoder*, Expert Systems With Applications, Expert Systems with Applications, Published 28 Sep 2024,URL:

- <https://www.sciencedirect.com/science/article/pii/S0957417424023145?dgcid=coauthor>, DOI: <https://doi.org/10.1016/j.eswa.2024.125447> (SCI JCR 1, IF 8.665).
22. Xiang Li ^a, Wang Zhou ^a, Amin Ul Haq, Shakir Khan, LDPMF: Local differential privacy enhanced matrix factorization for advanced recommendation, Knowledge-Based Systems, Published:21-12-2024, DOI: <https://doi.org/10.1016/j.knosys.2024.112892>, (SCI JCR 1, IF 7.665).
 23. Wang Zhou, Ying Tian, Amin Ul Haq & Sultan Ahmad, An autoencoder-based recommendation framework toward cold start problem, The Journal of Supercomputing, DOI: <https://doi.org/10.1007/s11227-024-06721-6>, Published : 13 November 2024. , (SCI JCR 4, IF 1.665).
 24. Sana Qayyum, Arshiya Sultana *, Md Belal Bin Heyat *, Khaleequr Rahman, Batool Abdulelah Akhamis, Mohammed Aedh Alqahtani, Reem M. Gahtani, Faijan Akhtar, Amin ul Haq , "Therapeutic Efficacy of Linum usitatissimum L, Plantago ovata Forssk and Honey on Uncomplicated Pelvic Inflammatory Disease with Bioactive Molecules", pharmaceutics, DOI: 0.3390/pharmaceutics15020643 Published 7-Feb-2023, (SCI JCR 2, IF 6.525).
 25. Qiang Qiang Chen, Jian Ping Li, **Amin ul Haq ***, Bless Lord Y Agbley, Arif Hussain, Inayat Khan, Riaz Ullah Khan, Jalaluddin Khan, and Ijaz Ali, A multi-modal network security framework for healthcare based on deep learning, Computational Intelligence and Neuroscience, DOI: <https://doi.org/10.1155/2023/9041355> Published 24 July 2022, (**SCI JCR 3, IF 3.120**).
 26. Muhammad Hammad Memon, Jian Ping Li, **Amin ul Haq ***, Muhammad Hunain Memon, and Wang Zhou., "Breast Cancer Detection in the IOT Health Environment Using Modified Recursive Feature Selection.", Wireless Communications and Mobile Computing vol:2019 Published:11-Nov-2019, pages:21, DOI: [10.1155/2019/5176705](https://doi.org/10.1155/2019/5176705), URL: <https://www.hindawi.com/journals/wcmc/2019/5176705/#:~:text=To%20improve%20the%20classification%20performance,for%20the%20best%20predictive%20model,> (**SCI JCR 4, IF 2.336**).
 27. Jalaluddin khan, Jian ping li, Bilal Ahmad, Shadam perveen, **Amin ul Haq**, "SMSh: Secure Surveillance Mechanism on Smart Healthcare IoT System with Probabilistic Image Encryption", IEEE access, IEEE Access (Volume: 8), Page(s): 15747 - 15767, DOI: 10.1109/ACCESS.2020.2966656, URL: <https://ieeexplore.ieee.org/abstract/document/8959209/>, Electronic ISSN: 2169-3536, Date of Publication: 14 January 2020, (**SCI JCR 2, IF 3.745**).
 28. Asif Khan, Jian Ping Li, **Amin ul Haq**, Shah Nazir, Naeem Ahmad, Naushad Varish, Asad Malik, and Sarosh H. Patel, "Partial Observer Decision Process Model for Crane-Robot Action", Intelligent Decision Support Systems Based on Machine Learning and Multicriteria Decision-Making, Scientific programming, Hindawi, Volume 2020 Article ID 6349342 pages 14, DOI: [10.1155/2020/6349342](https://doi.org/10.1155/2020/6349342), URL: <https://www.hindawi.com/journals/sp/2020/6349342/>, (**SCI JCR 4, IF 1.025**).
 29. Asif Khan, JianPing Li, **Amin ul Haq**, Sabit Rahim, Samad Wali, Sarosh Patel, Bhushan Dharmadhikari, "Healthcare Big Data Diagnostic Analysis using Recommender Model and its Applications", Intelligent Decision Support Systems Based on Machine Learning and Multicriteria Decision-Making, Scientific programming, Hindawi, (**SCI JCR 4, IF 1.025**)
 30. Asif Khan, Jian Ping Li, Naeem Ahmad, Shuchi Sethi, **Amin ul Haq**, Sarosh H. Patel, Sabit Rahim, "Predicting Emerging Trends on Social Media by Modeling it as Temporal Bipartite Networks" IEEE Access (Volume: 8), Page(s): 39635 - 39646, DOI: 10.1109/ACCESS.2020.2976134, URL:

<https://ieeexplore.ieee.org/document/9007680/footnotes#footnotes>, Electronic ISSN: 2169-3536, Date of Publication: 24 February 2020. (SCI, IF 3.745).

31. Tanvir ahmad, Yinglong Ma, Muhammad Yahya, Bilal Ahmad, Shah Nazir, **Amin ul Haq**, “Object Detection through Modified YOLO Neural Network”, Intelligent Decision Support Systems Based on Machine Learning and Multicriteria Decision-Making, Scientific programming, vol:2020, Published:06-Jun-2020, DOI:10.1155/2020/8403262, URL: <https://www.hindawi.com/journals/sp/2020/8403262/>, (SCI JCR 4, IF 1.025).
32. Mordecai Raji, JianPing Li, **Amin ul Haq** *, Victor Ejianya, Jalaluddin Khan, Amjad Ali, Ghufra Khan, Mohammad Shahid, Asif Khan, Mudassir Khalil, Bilal Ahamad, Amit Yadav, IMRAN MEMON, “A new approach for enhancing the services of 5G mobile network and IOT related communication devices using wavelet-OFDM and its applications in healthcare, Scientific programming, vol:2020, pages:1-16, Published:10-oct-2020, DOI: [10.1155/2020/3204695](https://doi.org/10.1155/2020/3204695), URL: <https://www.hindawi.com/journals/sp/2020/3204695/>, (SCI JCR 4, IF 1.025).
33. Li Qin HU, Amit Yadav, Asif Khan, Hong LIU, **Amin ul Haq**, “Application of Big Data Fusion Based on Cloud Storage in Green Transportation: A Application of Healthcare”, Scientific programming. Vol:2020, Published 29-July-2020, pages:1-14, DOI: [10.1155/2020/1593946](https://doi.org/10.1155/2020/1593946) , URL: <https://www.hindawi.com/journals/sp/2020/1593946/> ,(SCI JCR 4, IF 1.025).
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Application date: 2023-10-16, Application number/patent number: 2023113421351,
Main classification number: G06V10/764, Invention patent application publication
number: CN117292203A, URL:
<https://cpquery.cponline.cnipa.gov.cn/chineseipatent/index> Voum and issue no . 41-
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一种基于卷积神经网络的多级医学图像分类模型建立方法, CN117292203A,
CN202311342135.1 ; 在用户和实体行为异常检测中从变分自动编码器潜在空间提取可操作的
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URL :

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Translation:

Shenzhen Intelligent Robot Industry Patent Navigation Service Platform

Shenzhen Lidao Intellectual Property Agency

Patent No.: **CN117292203A**

Application No.: **CN202311342135.1**

Translated Title:

A Method for Establishing a Multi-Level Medical Image Classification Model Based on a Convolutional Neural Network (CNN)

Submitted Journal Articles

1. Mahesh B Dembrani , Tushar H Jaware , Ravindra D Badgujar , Kolla Bhanu Prakash , Jalaluddin Khan* , Naved Ahmad , Amin Ul Haq , Ibrahim Atoum , “Design and Development of Step size Optimization using GHOA for Channel Equalization and Maximum Likelihood Estimation in the presence of ISI”, [Journal of Cloud Computing](#) Advances, Systems and Applications
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