



(Dr. Asif Khan)

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Hyperlinks of (Google Scholar Citation, |Orcid Id, Scopus, |Web Of Science, |Research gate, |linked in)

PROFILE

- Dr. Asif Khan is an experienced Assistant Professor in the Department of Computer Application at Integral University, specializing in AI, Robotics, and ML/DL.
- Holds a Ph.D. and Postdoc with teaching experience from the University of Electronic Science and Technology of China (UESTC), with a strong academic foundation from Aligarh Muslim University (AMU).
- Over 8 years of post-Ph.D. academic experience, complemented by ongoing research as a Robotics Research Scientist at the Integral Robotics Lab.
- Actively involved in funded research, including projects like AI-enhanced mental health tools and power grid stability mechanisms, with grants from UPCST and Integral University.
- Recognized for innovation, awarded for contributions to an 'Image-based Cheque Clearing System' and contributions to AI in the FinTech sector.

RESEARCH INTEREST:

- Artificial Intelligence
- Robotics
- Machine Learning
- Deep Learning
- Data Science
- Discrete Mathematics

SUMMARY OF RESEARCH ACCOMPLISHMENT:

- **Ph.D. Research and Postdoctoral Teaching:** Completed Ph.D. and postdoctoral studies with a focus on Artificial Intelligence and Robotics at the University of Electronic Science and Technology of China (UESTC), gaining extensive expertise in these fields.
- **Ph.D. Supervision:** Currently supervising Ph.D. students, guiding them in specialized research areas such as AI, Machine Learning, and Robotics, contributing to the development of new knowledge in these fields.

- **Research Funding:** Secured government research funding from UPCST in August 2024 for the project "Design and Development of Power Grid Stability Pipeline Machine Mechanism to make Pradhan Mantri Surya Ghar: Muft Bijli Yojana initiative more versatile," with a grant amount of ₹7,70,000 as Co-Principal Investigator.
- **Seed Money Grant:** Awarded a Seed Money Grant in March 2024 from Integral University for the project "Design and Implementation of an AI-Enhanced Mental Health Tool for Academic Stress," with funding of ₹1,10,000 as the Principal Investigator.
- **Research Publications:** Published multiple research papers in recognized journals, focusing on Artificial Intelligence, Robotics, and Machine Learning/Deep Learning, contributing to advancements in these areas.
- **Collaborative Research:** Engaged in collaborative research with international institutions, including the University of Electronic Science and Technology of China (UESTC) and the University of Bridgeport, USA, to strengthen research output and interdisciplinary innovation.
- **Teaching and Mentoring:** With around 8 years of post-Ph.D. experience, actively involved in teaching and mentoring students in AI, Robotics, and Machine Learning, fostering the next generation of researchers.

PROFESSIONAL MEMBERSHIP:

1. The Institute of Electrical and Electronics Engineers (IEEE)
2. Computer Science and Engineering Society (CCES)
3. The International Association of Engineers (IAENG)
4. The Computer Science Teachers Association (CSTA)
5. International Society for Development and Sustainability (ISDS)
6. Universal Association of Computer and Electronics Engineers (UACEE)

COURSE TAUGHT:

- Machine Learning with Python
- Data Science
- Discrete Mathematics
- Mobile Communication
- Management Information System (MIS)
- Fundamentals of computer and c programming
- Java programming

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

- **NAAC Member Secretary:** Contributed to Criteria-3 (2023-Present) and Criteria-5 (2022-2023) assessments for NAAC accreditation at Integral University.
- **Key Departmental Roles:** Serving as Member Secretary for the Departmental Placement Committee and the Student Project Monitoring and Evaluation Committee, focusing on student placements and project oversight in the Department of Computer Application.

- **Committee Memberships:** Actively involved as a member in the Career and Professional Development, Departmental Ranking (NIRF, NAAC), and Quality Assurance Committees to support departmental standards and rankings.
- **Academic Coordination and Examiner Roles:** Served as Course Coordinator (2022-2023), Undergraduate Project Coordinator (2021-2022), and was invited as an External Examiner in 2023 by KMCU and Era University. Also set exam papers for ERA University.
- **Robotics and Mentorship:** Currently a Team Member and Coordinator at Integral Robotics Lab, mentoring students in Summer Internship Program-01 at Integral University, Lucknow.

STUDENTS SUPERVISION

| S.No. | Program | Number of Student |
|-------|---------|-------------------|
| 1. | BCA | 09 |
| 2. | MCA | 07 |
| 3. | Ph.D. | 01 |

PUBLISHED/GRANT PATENTS

- Blockchain Based Miniature Energy Meter, DOP: 04.09.2020; Date of Grant: 31.07.2024
- AI Based Solar Powered Human Detection Device for Emergency Exit, DOP: 04.09.2020; Date of Grant: 31.07.2024
- Medical Suction Pump Controller, DOP: 04.09.2020; Date of Grant: 31.07.2024
- Walking Stick (For Visually Impaired Based On AI and IOT) , DOP: 04.09.2020; Date of Grant: 31.07.2024
- Portable IOT Based Face Mask And Body Temperature Sensing Device, DOP: 04.09.2020; Date of Grant: 31.07.2024
- A system for the inchoative integration of visual information retrieval, DOP: 04.09.2020; Date of Grant: 31.07.2024
- A modified maximum power point (MPP) tracking module for photovoltaic system and a method thereof, DOP: 04.09.2020; Date of Grant: 31.07.2024

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- Farooqui NA, Hasan MK, Noori MA, Abd Rahman AH, Islam S, Haleem M, Ahmad SF, Khan A, Ahmed FR, Babiker NB, Ahmed TE. Hybrid bat and salp swarm algorithm for feature selection and classification of crisis-related tweets in Social Networks. IEEE Access. 2024 Jul 1.
- Khan A, Varish N, Pandey D, Rizvi SQ, Mehrotra S, Parveen N. Model-based recognition in robot vision for monitoring built environments. Multimedia Tools and Applications. 2024 May 13:1-8.

- Rizvi SQ, Wang G, Khan A, Hasan MK, Ghazal TM, Khan AU. Classifying Parkinson's disease using resting state electroencephalogram signals and U EN-PDNet. Ieee access. 2023 Sep 25.
- Abbas K, Hasan MK, Abbasi A, Mokhtar UA, Khan A, Abdullah SN, Dong S, Islam S, Alboaneen D, Ahmed FR. Predicting the future popularity of academic publications using deep learning by considering it as temporal citation networks. IEEE Access. 2023 Jun 28.
- Abbas K, Hasan MK, Abbasi A, Dong S, Ghazal TM, Abdullah SN, Khan A, Alboaneen D, Ahmed FR, Ahmed TE, Islam S. Co-evolving popularity prediction in temporal bipartite networks: A heuristics based model. IEEE Access. 2023 Mar 28;11:37546-59.
- Khan A, Li JP, Husain MA. Power grid stability analysis using pipeline machine. Multimedia Tools and Applications. 2023 Jul;82(17):25651-75.
- Varish N, Hasan MK, Khan A, Zamani AT, Ayyasamy V, Islam S, Alam R. Content-based remote sensing image retrieval method using adaptive tetrolet transform based GLCM features. Journal of Intelligent & Fuzzy Systems. 2023 Jan 1;44(6):9627-50.
- Khan A, Li JP, Hasan MK, Varish N, Mansor Z, Islam S, Saeed RA, Alshammari M, Alhumyani H. PackerRobo: Model-based robot vision self supervised learning in CART. Alexandria Engineering Journal. 2022 Dec 1;61(12):12549-66.
- Khan W, Haroon M, Khan AN, Hasan MK, Khan A, Mokhtar UA, Islam S. DVAEGMM: Dual variational autoencoder with gaussian mixture model for anomaly detection on attributed networks. IEEE Access. 2022 Aug 24;10:91160-76.
- Verma HC, Ahmed T, Rajan S, Hasan MK, Khan A, Gohel H, Adam A. Development of LR-PCA based fusion approach to detect the changes in mango fruit crop by using landsat 8 OLI images. IEEE Access. 2022 Jul 26;10:85764-76.
- Haq AU, Li JP, Agbley BL, Khan A, Khan I, Uddin MI, Khan S. 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. 2022 May 3;26(10):5004-12.
- Bin Heyat MB, Akhtar F, Ansari MA, Khan A, Alkahtani F, Khan H, Lai D. Progress in detection of insomnia sleep disorder: a comprehensive review. Current Drug Targets. 2021 Apr 1;22(6):672-84.
- Khan A, Li JP, Haq AU, Memon I, Patel SH. Emotional-physic analysis using multi-feature hybrid classification. Journal of Intelligent & Fuzzy Systems. 2021 Jan 1;40(1):1681-94.
- Raji MF, Li J, Haq AU, Ejianya V, Khan J, Khan A, Khalil M, Ali A, Khan GA, Shahid M, Ahamad B. A New Approach for Enhancing the Services of the 5G Mobile Network and IOT-Related Communication Devices Using Wavelet-OFDM and Its Applications in Healthcare. Scientific Programming. 2020;2020(1):3204695.
- Hu LQ, Yadav A, Khan A, Liu H, Haq AU. Application of big data fusion based on cloud storage in green transportation: an application of healthcare. Scientific Programming. 2020;2020(1):1593946.
- Varish N, Pal AK, Hassan R, Hasan MK, Khan A, Parveen N, Banerjee D, Pellakuri V, Haqis AU, Memon I. Image retrieval scheme using quantized bins of color image components and adaptive tetrolet transform. IEEE Access. 2020 Jun 22;8:117639-65.
- Li JP, Haq AU, Din SU, Khan J, Khan A, Saboor A. Heart disease identification method using machine learning classification in e-healthcare. IEEE access. 2020 Jun 9;8:107562-82.
- Khan A, Li JP, Ahmad N, Sethi S, Haq AU, Patel SH, Rahim S. Predicting emerging trends on social media by modeling it as temporal bipartite networks. IEEE Access. 2020 Feb 24;8:39635-46.

- Xu J, Wang Q, Wang Y, Asif K. High Accuracy Network Cardinalities Estimation by Step Sampling Revision on GPU. CMC-COMPUTERS MATERIALS & CONTINUA. 2020 Jan 1;64(3):1819-44.
- Bin Heyat MB, Akhtar F, Khan A, Noor A, Benjdira B, Qamar Y, Abbas SJ, Lai D. A novel hybrid machine learning classification for the detection of bruxism patients using physiological signals. Applied Sciences. 2020 Oct 22;10(21):7410.
- Khan A, Li JP, Haq AU, Nazir S, Ahmad N, Varish N, Malik A, Patel SH. Partial Observer Decision Process Model for Crane-Robot Action. Scientific Programming. 2020;2020(1):6349342.

PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

- Ting Z, Yadav A, Jiang SX, Khan A. Parameters Research of Facial Emotion Detection Algorithm Based on Machine Learning. In2024 Asia Pacific Conference on Innovation in Technology (APCIT) 2024 Jul 26 (pp. 1-6). IEEE.
- Yang Y, Li J, Zhang R, Sah AP, Yadav A, Khan A. The Open Source Threat Intelligence Relational Dataset and Its Optimal Implementation. In2024 Asia Pacific Conference on Innovation in Technology (APCIT) 2024 Jul 26 (pp. 1-6). IEEE.
- Jingyao C, Yadav A, Khan A, Sah AP. Design of data processing scheme of 5G terminal protocol conformance test system. In2024 Fourth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT) 2024 Jan 11 (pp. 1-5). IEEE.
- Sanjun D, Yadav A, Khan A, Yadav D. Analysis of Learning Internal Drive of Private University Students Based on K_Means Clustering Algorithm. In2023 OITS International Conference on Information Technology (OCIT) 2023 Dec 13 (pp. 703-707). IEEE.
- Fanchang F, Yadav A, Khan A, Azam S, Yadav D. Trusted Computing Data Transaction Scheme based on Blockchain. In2023 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC) 2023 Oct 11 (pp. 276-281). IEEE.
- Yadav A, Khan A. Research on indoor positioning technology of RFID nodes in the internet of things (IOT). In2023 3rd International Conference on Smart Data Intelligence (ICSMDI) 2023 Mar 30 (pp. 533-536). IEEE.
- Jingyao C, Yadav A, Khan A, Ansar S. Research on Coding and Decoding Scheme for 5G Terminal Protocol Conformance Test Based on TTCN-3. InInternational Conference On Innovative Computing And Communication 2023 Feb 17 (pp. 673-681). Singapore: Springer Nature Singapore.
- Luoli, Yadav A, Khan A, Varish N, Singh P, Thakkar HK. Mask Wearing Detection System for Epidemic Control Based on STM32. InInternational Conference On Innovative Computing And Communication 2023 Feb 17 (pp. 731-740). Singapore: Springer Nature Singapore.
- Ting Z, Yadav A, Khan A, Yadav D. Successful Delivery Probability and Performance Analysis of Network Coding with Multi-generation Mixing in Wired Network. In2022 IEEE Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI) 2022 Dec 21 (pp. 1-4). IEEE.
- Khan A, Hasana MK, Ghazal TM, Islam S, Alzoubi HM, Asma'Mokhtar U, Alam R, Ahmad M. Collaborative learning assessment via information and communication technology. In2022 RIVF International Conference on Computing and Communication Technologies (RIVF) 2022 Dec 20 (pp. 311-316). IEEE.

- Shah RK, Hasan MK, Islam S, Khan A, Ghazal TM, Khan AN. Detect phishing website by fuzzy multi-criteria decision making. In 2022 1st International Conference on AI in Cybersecurity (ICAIC) 2022 May 24 (pp. 1-8). IEEE.
- Ghani A, Khan A, Abbas K. Covid-19 Vaccination Concerns and its way out in Rustic Zones. In 2022 12th International Conference on Cloud Computing, Data Science & Engineering (Confluence) 2022 Jan 27 (pp. 246-251). IEEE.
- Hu LQ, Khan A, Yadav A, Liu H. Research on the Appraisal of the Attraction of Technological Talents in the Shuangcheng Economic Circle of Chengdu-Chongqing Region. In 2022 12th International Conference on Cloud Computing, Data Science & Engineering (Confluence) 2022 Jan 27 (pp. 59-65). IEEE.
- Khan A, Yadav A. Python Data Analytics of Influence on Temperature and Humidity of City from Mountains: Case Study of Chengdu Qingcheng Mountains. In 2021 International Conference on Disruptive Technologies for Multi-Disciplinary Research and Applications (CENTCON) 2021 Nov 19 (Vol. 1, pp. 323-328). IEEE.
- Yadav A, Khan A. Internet of things based wireless garbage monitoring system. In 2019 Third International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC) 2019 Dec 12 (pp. 103-107). IEEE.
- Chen K, Zhu K, Meng Y, Yadav A, Khan A. Mixed credit scoring model of logistic regression and evidence weight in the background of big data. In Intelligent Systems Design and Applications: 18th International Conference on Intelligent Systems Design and Applications (ISDA 2018) held in Vellore, India, December 6-8, 2018, Volume 1 2020 (pp. 435-443). Springer International Publishing.
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- Khan J, ping Li J, Ali I, Parveen S, ahmad Khan G, Khalil M, Khan A, Haq AU, Shahid M. An authentication technique based on oauth 2.0 protocol for internet of things (IoT) network. In 2018 15th International computer conference on wavelet active media technology and information processing (ICCWAMTIP) 2018 Dec 14 (pp. 160-165). IEEE.
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- Khan A, Li JP, Khan J, Jasim KM, Alam R, Ahamed VN. Complex environment fuzzy vision computing. In 2018 15th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP) 2018 Dec 14 (pp. 232-236). IEEE.
- Khalil M, Li JP, Wang Y, Khan A. Algorithm to solve travel salesman problem efficiently. In 2016 13th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP) 2016 Dec 16 (pp. 123-126). IEEE.
- Khalil M, Li JP, Saleem Y, Khan A. An efficient technique to estimate object speed. In 2016 13th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP) 2016 Dec 16 (pp. 477-479). IEEE.

- Khan A, Li JP, Khann MY. Vision Based Information Retrieval. In2016 13th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP) 2016 Dec 16 (pp. 265-268). IEEE.
- Mireku K, FengLi Z, NiiAyeh MD, Khan A, Khan I. Secured cloud database health care mining analysis. In2016 3rd International Conference on Computing for Sustainable Global Development (INDIACom) 2016 Mar 16 (pp. 3937-3740). IEEE.
- Memon MH, Hunain M, Khan A, Shaikh RA, Khan I. Power management for Android platform by Set CPU. In2016 3rd International Conference on Computing for Sustainable Global Development (INDIACom) 2016 Mar 16 (pp. 3953-3958). IEEE.
- Khan A, Li JP, Shaikh RA, Khan I. Vision based classification of fresh fruits using fuzzy logic. In2016 3rd International Conference on Computing for Sustainable Global Development (INDIACom) 2016 Mar 16 (pp. 3932-3936). IEEE.
- Shaikh RA, Li JP, Khan A, Khan I. Content based grading of fresh fruits using Markov random field. In2016 3rd International Conference on Computing for Sustainable Global Development (INDIACom) 2016 Mar 16 (pp. 3927-3931). IEEE.
- Khan A, Li JP, Shaikh RA. Medical image processing using fuzzy logic. In2015 12th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP) 2015 Dec 18 (pp. 163-167). IEEE.
- Shaikh RA, Li JP, Khan A, Memon I. Biomedical image processing and analysis using Markov random fields. In2015 12th International computer conference on wavelet active media technology and information processing (ICCWAMTIP) 2015 Dec 18 (pp. 179-183). IEEE.
- Khan I, Khan A, Shaikh RA. Object analysis in image mining. In2015 2nd International Conference on Computing for Sustainable Global Development (INDIACom) 2015 Mar 11 (pp. 1985-1988). IEEE.
- Kumar K, Mustafa N, Li JP, Shaikh RA, Khan SA, Khan A. Image edge detection scheme using wavelet transform. In2014 11th International Computer Conference on Wavelet Actiev Media Technology and Information Processing (ICCWAMTIP) 2014 Dec 19 (pp. 261-265). IEEE.
- Khan A, Deep S, Li JP, Memon MH, Shaikh RA, Kumar K. Inchoative integration of content based image retrieval: Shodhani. In2014 11th International Computer Conference on Wavelet Actiev Media Technology and Information Processing (ICCWAMTIP) 2014 Dec 19 (pp. 289-292). IEEE.
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- Deep S, Shaikh RA, Li JP, Memon MH, Khan A, Tao Z. Pattern based object recognition in image processing. In2014 11th International Computer Conference on Wavelet Actiev Media Technology and Information Processing (ICCWAMTIP) 2014 Dec 19 (pp. 276-279). IEEE.
- Kumar K, Hussain MJ, Li JP, Khan A, Khan SA, Shaikh RA. Complementary semantic model for content-based image retrieval. In2014 11th International Computer Conference on Wavelet Actiev Media Technology and Information Processing (ICCWAMTIP) 2014 Dec 19 (pp. 266-270). IEEE.
- Shaikh RA, Deep S, Li JP, Memon MH, Khan A, Kumar K. Content factors segmentation with CBIR in real world. In2014 11th International Computer Conference on Wavelet Actiev Media Technology and Information Processing (ICCWAMTIP) 2014 Dec 19 (pp. 297-300). IEEE.

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- Shaikh RA, Deep S, Li JP, Kumar K, Khan A, Memon I. Contemporary integration of content based image retrieval. In 2014 11th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP) 2014 Dec 19 (pp. 301-304). IEEE.
- Khan A, Deep S, Li JP, Kumar K, Shaikh RA, Hasan F. Vision prehension with CBIR for cloud robo. In 2014 11th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP) 2014 Dec 19 (pp. 293-296). IEEE.
- Khan AS, Li JP, Hasan F, Alam R. Real world image analysis with CBIR in cloud database. Advances in Computer Science and Information Technology (ACSIT). 2014;1(3):140-3.
- Ahmed SR, Li JP, Hammad MM, Asif K. Image segmentation approach in multimodal information retrieval. In 2013 10th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP) 2013 Dec 17 (pp. 167-170). IEEE.

PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS

- Khan RA, Li T, Khan A. Cloud migration: Standards and regulatory issues with their possible solutions. International Journal of Advanced Networking and Applications. 2019 May 1;10(6):4113-9.
- Abbasi EH, Singh A, Constantinescu M, Khan A, Naseem M. Making Indian companies CDM compatible: towards a green financial strategy. International Journal of Green Economics. 2017;11(1):62-76.
- Shaikh RA, Li JP, Khan A, Kumar K. Content Analysis Using Shape and Spatial Layout with Markov Random Field. Indian Journal of Science and Technology. 2016 Feb;9(7):1-6.
- Shah RK, Hossin MA, Khan A. Intelligent phishing possibility detector. International Journal of Computer Applications. 2016 Jan 1;148(7).
- Khan A, Li JP, Shaikh RA. Vision based geo navigation information retrieval. International Journal of Advanced Computer Science and Applications. 2016;7(1).
- Shaikh RA, Li JP, Khan A. Contemporary Layout's Integration for Geospatial Image Mining. International Journal of Advanced Computer Science and Applications. 2016;7(1).
- Shaikh RA, Li JP, Khan A. Primitive Integration for Content based Image Retrieval. International Journal of Computer Applications. 2015 Jan 1;113(5).
- Khan A, Li JP, Shaikh RA. Content based object observation for image retrieval. International Journal of Computer Applications. 2015 Jan 1;113(5).

BOOK EDITED/ AUTHORED

- Khan, A, et al., "Advancements in Artificial Intelligence and Machine Learning: Exploring Intelligent Solutions Across Various Domains, Bentham Science Publishers, ISBNNo – ITS/04/EB –01,Rev.03, Issue.01, 2024. | Scopus
- Khan, A, Jian pin li, Khan Y. "Vision Based Information Retrieval (VBIR): For the betterment of our global society, LAP LAMBERT Academic Publishing, ISBNNo–97833330000766, Saarbrücken, Germany, 2016. | Scopus

- Khan AN, Patel S, Khan A, Malik A, Fazil M, Qamar S. Intelligent Modeling and Estimation of Solar Radiation Data Using Artificial Intelligence. *Photovoltaic Systems Technology*. 2024 Jul 3:123-50.
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 - Husain MA, Khan A, Tariq A, Khan ZA, Jain A. Aspects involved in the modeling of PV system, comparison of MPPT schemes, and study of different ambient conditions using P&O method. In *System and Architecture: Proceedings of CSI 2015* 2018 (pp. 285-303). Springer Singapore.
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