Dr. MOHAMMAD ZUNNUN KHAN

Ph.D. (Computer Science & Engineering), M.TECH (Computer Science & Engineering), B.TECH (Computer Science & Engineering)

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Passport No. : M**10074 (Issued by Government of India); valid till March 2025

Objectives

I am seeking assignments for teaching and research in Computer Science and Engineering with Absolute devotion and extreme sincerity for my organization and duties.

Areas of Research Interests

Software Quality   Software Security   Data Sciences

Courses Taught (Post Graduate (PG) Level (02) & Under Graduate (UG) Level (02))

Big Data   Cloud Computing

Software Quality

Employment

➤ **Assistant Professor (From 1August 2022 to till Date)(~0.5 Years)**, Department of Computer Science, University of Bisha, KSA.

➤ **Assistant Professor (From November 2018 to 31 July 2022)** (~ 3.5 Years), Department of Computer Science & Engineering, Integral University, Lucknow, India

➤ **Assistant Professor(From July 2013 to November 2014(~1.5 Years),** Department of Computer Science & Engineering, Integral University, Lucknow, India

Qualification

➤ **Ph.D.-Computer Science & Engineering (2018):** Integral University, Lucknow, India. Topic: *A Perspective Framework for the Industry Personnel for Integrating Testability within the Requirement Elicitation Process*. **Area: Software Testing and Quality Assurance.**

➤ **M. Tech.-Computer Science & Engineering (2013)**: Integral University, Lucknow, India, and Division- I.

➤ **B. Tech. -Computer Science & Engineering (2009):** Integral University, Lucknow, India and Division-I.

Indian Patent

➤ **Khan, M. et.al, "**An effective Prediction and Prioritization based Cloud Service Architecture", Published with Indian Patent Office. Application No-202111008424

Books Edited

➤ **Khan, M et.al**. (**2021**). Pervasive Healthcare: A Compendium for critical factors of success**,** published by **Springer EAI/Springer Innovations in Communications and Computing. (eBook**

➢ **Khan, M**. & Husain, M. (2020**). Critical Concepts, Standards, and Techniques in Cyber Forensics** (pp. 1-300). Hershey, PA**: IGI Global**. doi:10.4018/978-1-7998-1558-7. **ISBN13: 9781799815587|ISBN10: 1799815587**

Book Authored

➢ **Mohammad Zunnun Khan,** et.al, **Big Data Concepts, Technologies, and Applications, Taylor & Francis(2023)**.

Publications in International Journals (APA Style)

➢ Khan, M. Z. (2023). An Internet of Things Enabled Machine Learning Model for Energy Theft Prevention System (ETPS) in Smart Cities. *Journal of Cloud Computing, (SCI Indexed)-Published*

➢ Khan, M. Z. (2023). Enhanced Mechanism to Prioritize the Cloud Data Privacy Factors using AHP and TOPSIS: A Hybrid Approach. *Journal of Cloud Computing, (SCI Indexed)-Accepted*

➢ Khan, M. Z. (2023). A Service-Categorized Security Scheme with Physical Unclonable Functions for Internet of Vehicles. Journal of Big Data*(SCI Indexed)-Accepted*

➢ Alluhaidan, A. S., Khan, M. Z., Halima, N. B., & Tyagi, S. (2023). A diversified context-based privacy-preserving scheme (DCP2S) for internet of vehicles. *Alexandria Engineering Journal*, *77*, 227-237. https://doi.org/10.1016/j.aej.2023.06.073 (**SCI Indexed**)

➢ Praveen S., Khan. M. Z. Khan, "Real-time system size estimation using Fuzzy Logic's Object-Oriented Full Function Point (OOFFP): regression analysis and empirical validation", Automated Software Engineering(**SCI Indexed**)-Communicated

➢ Praveen S., Khan. M. Z. Khan, An Imperative Role of Current Computer based Technologies for Smart Agriculture: A Review, [CSSE] SI:Artificial Intelligence for Cyber Security(**SCI Indexed**) - Communicated

➢ Siddiqui M. M, Jain R, Kidwai M. S, Khan M. Z. Recording of EEG Signals and Role in Diagnosis of Sleep Disorder. Biomed Pharmacol J;15(3),(2022).(**Scopus Indexed)**

➢ Sakshi Raj Singh, Dr Mohammad Zunnun Khan, "An Effective Data Management Framework for Healthcare: Big Data Perspective: A Review", International Journal of Science and Research (IJSR), Volume 11 Issue 7 , pp. 1382-1386,(2022)

➢ Ahamad, F., Khan, M. Z., & Akhtar, N. (2021). An empirical study on the current state of internet of multimedia things (IoMT). International Journal of Engineering Research in Computer Science and Engineering. Vol 8, Issue 3, pg. 25-42. (2021)

➢ Srivastava, N & Khan. M. Machine Learning Based Crowd Behaviour Analysis and Prediction.Journal of Network Security Computer Networks (e-ISSN: 2581-639X) Vol 7, Issue 1, Pg.520-534 (2021).

➢ Fatima, A., & Khan, M. Intensive literature review of data Privacy in Cloud Environment. , Alochana Chakra Journal Volume IX, Issue VII, Pg.520-534. (2020)

➢ Singh, J., & Khan, M. Z. (2019).Detection of Fake Profile in Social Media, Journal of Emerging Technologies and Innovative Research , Volume 6, issue 6, Pg38–42.(2019)

➢ Khan, M. Z., & Shoaib, M. Healthcare Analytics in the Modern Era: A Survey. International Journal of Research in Advent Technology, Volume 7, Issue March, Pg.132-134 (2019).

➢ Khan M. Z, Khanam M. A, Khan M. H. Requirement Based Testability Estimation Model of Object Oriented Software. Orient. J. Comp. Sci. and Technol. Vol 10 issue 4, Pg-1-9, (2017)

➢ Khan, M. Z., Khanam, M. A., & Khan, M. H. Requirement Modifiability Quantification Model of Object Oriented Software. Global Journal of Pure and Applied Mathematics. Vol 13 Issue 3, Pg. 36-41. (2017).

➢ Khan, M. Z., Khanam, M. A., & Khan, M. H. Requirement Understandability Quantification Model Of Object Oriented Software. International Journal of Advanced Research in Computer Science, Vol 8 Issue7, Pg. 298-302.(2017)

➢ Khan, M. Z., Khanam, M. A., & Khan, M. H. Software Testability in Requirement Phase: A Review. International Journal of Advanced Research in Computer and Communication Engineering, 5(4), 1031-1035.0. (2016)

➢ Khan, M. Z. P. (Dr.) M. R. B. M. S. H. Designing of Wide Area Network with the use of Frame Relay Concept in Real Time Environment: a Proposal. International Journal on Recent and Innovation Trends in Computing and Communication, 1(3), 134–138. https://doi.org/10.17762/ijritcc.v1i3.2751 (2013)

➢ Farooqui, M. Z, Shoaib M, Khan, M. Z. A comprehensive survey of page replacement algorithms. International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume 3 (2014).

Presentations in International and National Conferences

➢ **Mohammad Zunnun Khan**, et.al., **Blockchain-Based Secure Health Records in the Healthcare Industry**, **7th International Conference on Trends in Electronics and Informatics ICOEI 2023, 11-13, April 2023**(Scopus)

➢ **Mohammad Zunnun Khan**, et.al., **Hadoop based EMH Framework: A big data Approach**, ICACITE- 2021(**IEEE Conference**), Galgotia University**. (Scopus)**

➢ **Mohammad Zunnun Khan**, et.al., **A new perspective of detecting and classifying neurological disorders through using the concept of recurrence and applying machine learning concepts**, ICACITE- 2021(**IEEE Conference**), Galgotia University. **(Scopus)**

➢ **Aaysha Fatima and Mohammad Zunnun Khan** "**Cloud data privacy Model using AHP**" "**ICRTDARIP-2020**" on **20th and 21st November 2020** at **Amity University, Kolkata**.

➢ **Mohammad Zunnun Khan,** M Shoaib, M Zeeshan "**Discovering Web through Crawler: A Review**" at National conference on Recent Trends In Parallel Computing-2014(*Offline)*[**Published]** .

➢ **Mohammad Zunnun Khan,** M Usman Khan, M Shoaib "**Detection of malicious node in MANNET: ISSUES and Challlenges in Intrusion Detection**" at National conference on Recent Trends In Parallel Computing-2014(*Offline)*[**Published]**.

- **Mohammad Zunnun Khan**, Dr. M. R. Beg, M. Usman **"Improved 2D Line Drawing Algorithm"** International Conference held at UACEE, Delhi (ISBN: 78-981-07-1403-1) *(Online)[Published]*

- **Mohammad Zunnun Khan,** Mahfuzul Huda **"Improved Service Discovery in Wireless Mesh Network"** National Conference on Software Technology and Engineering'2011 held in LBS Girls College of Management, Lucknow. **(Offline)***" [Published]*

- **Mohammad Zunnun Khan**, Faiyaz Ahmad, Mohd. Shahid **"Performance Up-gradation in MANET using Distributed Control Multimedia Multiple Access Protocol"** National Conference on Software Technology and Engineering'2011 held in LBS Girls College of Management, Lucknow. **(Offline)***" [Published]*

Book Chapters

- **Mohammad Zunnun Khan** A Comparative Study on Data Mining Approach Using Machine Learning Techniques: Prediction Perspective. Book-Pervasive Healthcare, Pages- 153-165,Publisher Springer.**(Scopus)**

- **Mohammad Zunnun Khan** Security in Digital Healthcare System Book-Pervasive Healthcare, Pages- 217-231,Publisher Springer.**(Scopus)**

- **Mohammad Zunnun Khan**. Forensic Case Studies, Book Critical Concepts, Standards, and Techniques in Cyber Forensics, Pages 248-264, Publisher IGI Global

- **Mohammad Zunnun Khan**. Cyber Forensic Lab Setup and Its Requirement. Book Critical Concepts, Standards, and Techniques in Cyber Forensics, Pages 103-115, Publisher IGI Global

- **Mohammad Zunnun Khan**. Introduction to Email, Web, and Message Forensics Book Critical Concepts, Standards, and Techniques in Cyber Forensics, Pages 174-186, Publisher IGI Global

- **Mohammad Zunnun Khan**. Cyber Forensics Evolution and Its GoalsBook Critical Concepts, Standards, and Techniques in Cyber Forensics, Pages 16-30, Publisher IGI Global

Invited Lectures

- Delivered a special session on **" Big Data Analytics"** a two week Professional Development Program on "**Technology, Pedagogy & Research" from 25 November to 8 December 2021at Integral University, Lucknow**

Attended FDPs

- Attended a one week Faculty Development Program (FDP) on **Moodle: Learning Management System from 16th May, 2020 to 20th May,2020** Organized by Dept. of Computer Application in Association with Spoken tutorial Project-IIT Bombay- *Pandit Madan Mohan Malvia Mission on Teachers and Training(PMMMNMTT)*

PhD/M.Tech Thesis Awarded / Submitted / In Progress as Supervisor

S. No	Name of Student	Title	Status
1	**Yogendra Pratap Singh (PHD)**	**Detection and Prediction of Data Quality**	**Ongoing**
2	**Sakshi Singh (M.Tech.)**	**Designing of an effective framework for Data Deduplication.**	**Awarded 2022**

3	Neha Srivastava (M.Tech.)	Crowd Behaviour Analysis and Prediction using Machine Learning	Awarded In the year 2021
4	Durba Das Gupta (M.Tech.)	Black Listing Peers in Prioritization and Punish Method.	Awarded In the year 2021
5	Aaysha Fatima (M.Tech.)	Cloud data privacy Model	Awarded In the year 2020
6	Jyoti Singh (M.Tech.)	Detection of Fake Profile in Social Media	Awarded In the year 2019

Research Papers Reviewed

➢ Title of the Paper: Towards green and secure communication in IoT-enabled Maritime Transportation System, **IEEE Internet of Things Magazine.**

➢ Title of Paper: Kernel Learning on Riemannian Manifold via Geodesic Distance Preservation, **Journal of Software Engineering and Applications (JSEA).**

International Membership

➢ Computer Society of India(CSI), (Membership No. I1506048)

➢ International Association of Engineers (IAENG).Life member (Member No: 278676),

Memberships as Reviewer/Editorial Board

➢ Member of Reviewer Board at 10th International Conference on Web services & Semantic Technology (WeST 2018)" to be held in November 24-25, 2018, Melbourne, Australia
➢ Member of Reviewer Board at International Conference Advancement in Computer Engineering & Information Technology(ACEIT-2018)
➢ Member of Editorial Board at Lecture Notes in Electrical Engineering, Computer Networks & Communications (NetCom) (Springer)
http://link.springer.com/content/pdf/bfm%3A978-1-4614-6154-8%2F1
➢ Member of Editorial Board at International Journal of Advanced Research in Computer Science and Electronics Engineering (IJARCSEE)
http://ijarcsee.org/index.php/IJARCSEE/about/editorialTeam
➢ Member of Reviewer Board at Signal & Image Processing: An International Journal(SIPIJ)
http://www.airccse.org/journal/sipij/editorialboard.html
➢ Member of Editorial Board at International Journal of Electronics and Computer Science Engineering (*IJECSE)*
http://www.ijecse.org/editorial/
➢ Member of Editorial Board at International Journal of Science and Engineering (*IJSE)*
http://www.ijse.org/editorial-board/
➢ Member of Editorial Board at International Journal of Advanced Electrical and Electronics Engineering (IJAEEE)

➤ Member of Editorial Board at Engineering Science Technology Magazine (EST)

Administration/ Duties & Responsibilities

➤ **Co-Ordinator-Departmental Website** working since December 2020 to till date.
➤ **Guide** for **Undergraduate and Postgraduate** Students for Final Year Projects and Dissertation, from the year 2018 to till date.
➤ **Course Coordinator** for 3rd year Computer Science & Engineering, form Dec 2018 to June 2019.
➤ **In-charge, National Assessment and Accreditation Council (NAAC) Preparation Committee (Criteria III)**, Department of Computer Science & Engineering, Integral University; January 2018 to till date.
➤ **Member; Departmental Placement Committee**, Department of Computer Science, Integral University, Lucknow, from November 2018 to till Date (~ 2 Year).
➤ **Co- Counsellor, Designing & Printing Committee**, Integral University, Fiesta-2019.
➤ **Co- Counsellor, Designing & Printing Committee**, Integral University, Fiesta-2018.
➤ **Course Coordinator**, 2nd Year Computer Science & Engineering, from July 2018 to December 2018.
➤ **Coordinator, Mid Semesters Examination**: Department of Computer Science, Integral University, Lucknow, from August 2019 to June 2020 (~10 Months).

Workshop/Seminar/ Symposiums/ FDPs Attended

➤ Attended One Week FDP on **Moodle (LMS),** held during 16th may,20 to 20th may,20 at Integral University, Lucknow

➤ Attended Symposium on "**Following the Research Workflow using Elsevier's Tools"** held on 6th March, 2018 at Integral University, Lucknow.

➤ Attended Short Term Course on "**Artificial Neural Network & Fuzzy Logic through ICT**" held during 24.04.2017 to 28.04.2017 at Integral University, Lucknow.

➤ Attended Short Term Course on " **Academic Leadership"** Organized by UGC HRDC, held during 11th January,2017 to 17th January,2017 at Integral University, Lucknow

➤ Attended Seminar on " **MATLAB & Simulink for Engineering Education**" held on 09th July,2016 at Integral University, Lucknow

➤ Attended Worksop on "*Research Methods in Information Technology*" held during 22.09.14to 28.09.14 at Babasaheb Bhmrao Ambedkar University (A Central University), Lucknow.

➤ Attended seminar on Topic "*Advanced RISC* **Machine**" held on 12th March, 15 at Integral University, Lucknow.

➤ Attended Seminar "*Cyber Laws & Information Security*" on 2nd March 2013 organized by department of CSE/IT/CA under the aegis of ISTE Chapter, at Integral University, Lucknow**.**