Mohd Waris Khan, Ph.D., M.Phil.
Assistant Professor, Department of Computer Application, Faculty of Engineering,
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Google Scholar Citation **|**Orcid Id**|** Scopus **|**Web of Science**, |**Research Gate**|**Linkedin

PROFILE

➢ Dr. Mohd Waris Khan is currently working as an Assistant Professor in the Department of Computer Application, Integral University, Lucknow, India.

➢ His research focuses on various areas, including Software Engineering, Requirement Engineering, Security testing and healthcare applications.

➢ He has published more than 40 articles in peer-reviewed journals and conferences.

➢ He has successfully completed a three-year UPCST-funded project under the Young Scientist Scheme, focusing on software ergonomics, titled "Analysis of the Impact of Ergonomic Deficiencies in Computer Workstations at Government Offices of Uttar Pradesh."

➢ Dr. Khan completed his Ph.D. in Information Technology in 2019 at Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow, U.P. , India

➢ He holds an M.Phil. degree in Computer Science from Dr. C.V. Raman University, Kota, CG, India and M.Sc. in Information Technology from Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow, U.P. , India.

➢ Previously, he served as a Assistant Professor (Resource person) at Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh, India.

RESEARCH INTEREST:
➢ Software Engineering
➢ Security Engineering
➢ Software Security
➢ Security Testing
➢ Security Design
➢ Healthcare Data Security

SUMMARY OF RESEARCH ACCOMPLISHMENT:
➢ Number of Publications in SCI Indexed Journals: 03
➢ Number of Publications in Scopus Indexed Journals: 13
➢ Number of Publications in Non-Sci/Scopus but Peer: 12
➢ Number of Publications in International Conferences: 14
➢ Number of Publications in National Conferences: 11
➢ Number of Patents (Published/Grant): 03
➢ Book Chapters Published: 13
➢ Number of Books Published: 02
➢ Presentation in International Conferences: 05

- ➢ The referee for various Scientific Journals: 05
- ➢ Citations: 144
- ➢ H index: 07
- ➢ I10 index: 05
- ➢ Invited Talk as a Resource Person: 02

PROFESSIONAL MEMBERSHIP:
- ➢ Member of IAENG
- ➢ Member of IEEE

COURSE TAUGHT:

- ➢ Computer Graphics and Animation
- ➢ Operating System
- ➢ Data Structure using C
- ➢ Software Engineering and Project Management
- ➢ Software Security
- ➢ System Analysis and Design
- ➢ Cyber Law and Internet Security
- ➢ C, C++

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILTY

- ➢ Coordinator for the Departmental Website Development (DWC), Integral University, Lucknow, India, 2024.
- ➢ Member for Student Project Monitoring & Evaluation Committee
- ➢ Member of the Departmental Examination Committee
- ➢ Committee Member for Curriculum Design and Review for BCA and MCA Programs
- ➢ Program Course Coordinator and Student Mentor for BCA and MCA Programs
- ➢ Academic Supervisor for Final Year Industrial Projects for MCA and BCA Programs
- ➢ Member of NAAC Accreditation Criteria 3 Committee and Departmental Quality Assurance Committee (DQAC)
- ➢ Head Invigilator for End-Semester Examinations
- ➢ Faculty Advisors CA Media Club, Integral University, Lucknow, India.
- ➢ Organizing Committee in International Conference on Advances in Science, Engineering, and Technology (ICASET - 2024)
- ➢ Curriculum Review and Development Committee, Integral University, Lucknow, India, 2024.
- ➢ Steering Committee member in International Conference on Emerging Trends in Technology & its impact on Law, Organized by Faculty of Law & Department of Computer Application, Integral University, Lucknow, India.
- ➢ Technical Committee member in Two-weeks blended Faculty Development Programme on Next-Gen Computing Technologies (NGCT 2021), Organized by Department of Computer Application, Integral University, Lucknow, India, 2021.
- ➢ Organizing Committee member in International E-Symposium on Recent Advancements in Information and Communication Technology (RAICT 2020), Organized by Department of Computer Application, Integral University, Lucknow, India, 2020.
- ➢ Technical Committee Member in National Conference on Information Security Challenges (NCISC-2016), Organized by Department of IT, BBA University Lucknow, India, 2016.
- ➢ Member of editorial board of "BBAU-Voice" magazine, BBA University Lucknow.

STUDENTS SUPERVISION

- PhD: 04
- MCA: 06
- BCA: 06

PUBLISHED/GRANT PATENTS

- Security Testing Profile Framework (STP^f), (IN 201811006653) Official Journal of Patent Journal no 12/ 2018. (Published)
- A Framework for Security Requirement Elicitation Process, (IN 201911016384) Official Journal of Patent Journal no 12/ 2019. (Published)
- An Effective Prediction and Prioritization based Cloud Service Architecture (IN 202111008424) Official Journal of Patent Journal no 11/ 2021. (Published)

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- **Mohd Waris Khan, et al.,** Architecting lymphoma fusion: PROMETHEE-II guided optimization of combination therapeutic synergy, *International Journal of Information Technology*, pp.1-16, 2024. (ISSN:2511-2104)
- **Mohd Waris Khan, et al.,** Security Test Case Prioritization through Ant Colony Optimization Algorithm, *Computer Systems Science and Engineering (CSSE)*, vol.47, no.3, pp. 3165-3195, 2023. (ISSN:0267-6192)
- **Mohd Waris Khan, et al.,** A Fuzzy-based Unified Technique for Assessment of Software Security Testing, *Utilitas Mathematica,* vol.120, pp. 1968-1987, 2023. (ISSN: 0315-3681)
- **Mohd Waris Khan, et al.,** Analyzing and Mitigating Cross-VM Network Channel Attacks in Cloud Computing Environments, *Utilitas Mathematica,* vol.120, pp.1988-2011, 2023. (ISSN: 0315-3681)
- **Mohd Waris Khan, et al.,** "Evaluating Intelligent Methods for Detecting COVID-19 Fake News on Social Media Platforms", *Electronics, MDPI*, vol. 11, no. 15, pp. 1-15, 2022. (Impact Factor: 2.690; ISSN: 2079-9292)
- **Mohd Waris Khan, et al.,** "A Critical Analysis of Fraud Cases on the Internet", *Turkish Journal of Computer and Mathematics Education*, Vol.12, No.1, pp. 424-445, 2021. (ISSN: 1309-4653)
- **Mohd Waris Khan, et al.,** "Estimation of Software Risks through CVSS: A Design Phase Perspective", *Turkish Online Journal of Qualitative Inquiry*, Vol.12, No.4, pp. 894-901, 2021. (ISSN: 1309-6591)
- **Mohd Waris Khan, et al.,** "Effective Requirement Engineering Process by incorporating Risk Management Approach", *Solid State Technology*, Vol.63, No.5, pp.814-822, 2020. (ISSN: 0038-111X)
- **Mohd Waris Khan, et al.,** "Enhancement of Two-Tier ATM Security Mechanism: Towards Providing a Real-Time Solution for Network Issues", *International Journal of Advanced Computer Science and Applications*, Vol.11, No.7, pp. 123-130, 2020. (ISSN: 2156-5570)
- **Mohd Waris Khan, et al.,** "Quantitative Analysis of Requirement Elicitation Techniques through FANP: Security Perspective", *International Journal of Recent Technology and Engineering*, Volume-8, Issue-5, pp.3550-3558, 2020. (ISSN: 3550-3558, 2277-3878)
- **Mohd Waris Khan, et al.,** "Optimizing the Impact of Security Attributes in Requirement Elicitation Techniques using FAHP", *International Journal of Innovative Technology and Exploring Engineering*, Volume-9, Issue-4, pp.1656-1661, 2020. (ISSN: 2278-3075)
- **Mohd Waris Khan, et al.,** "Test Plan Specification using Security Attributes", *in ICIC Express Letters, An International Journal of Research and Surveys*, Vol. 12, No. 9, 2018. (ISSN: 1061–1069, 1881-803X)

- **Mohd Waris Khan, et al.,** "Measuring the Security Testing Attributes through Fuzzy Analytic Network Process: A Design Perspective", Journal *of Advanced Research in Dynamical and Control Systems (JARDCS)*, special issue12, pp.1514-1523, 2018. (ISSN: 1943-023X)

PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

- **Mohd Waris Khan, et al.,** "Measuring the Implications of Email Viruses through a Unified Model of Cyber Security," *6th International Conference on Contemporary Computing and Informatics (IC3I),* IEEE, Gautam Buddha Nagar, India, pp.614-621, 14-16 September 2023. (ISBN:979-8-3503-0449-7)
- **Mohd Waris Khan, et al.,** "A Review Study on Feedback Models for Information Retrieval," *2023 6th International Conference on Contemporary Computing and Informatics (IC3I)*, IEEE, Gautam Buddha Nagar, India, 2023, pp. 585-591, 14-16 September 2023. (ISBN:979-8-3503-0449-7)
- **Mohd Waris Khan, et al.,** "A Novel Paradigm: Cloud-Fog Integrated IoT Approach," *3rd International Conference on Computation, Automation and Knowledge Management (ICCAKM)*, IEEE, Dubai, UAE, 15-17 November 2022. (ISBN:978-1-6654-5320-2)
- **Mohd Waris Khan, et al.,** "An Analysis on Usages of Information Retrieval Methods Using Big Data for Legal System," *Emerging Trends in Technology & Its Impact on Law (ETTIL-2022)*" organized by Faculty of Law & Department of Computer Application, Integral University, Lucknow, 29-30 March 2022.
- **Mohd Waris Khan, et al.,** "Cloud Computing: Struggle through Security Issues" *Emerging Trends in Technology & Its Impact on Law (ETTIL-2022)*" organized by Faculty of Law & Department of Computer Application, Integral University, Lucknow, 29-30 March 2022.
- **Mohd Waris Khan, et al,** "Identification and Mitigation Strategies of Malware Attacks", *International E-Symposium on Recent Advancements in Information and Communication Technology (RAICT 2020)*.
- **Mohd Waris Khan, et al.,** "Current Issues and Challenges of Digital Memory Forensics: Security Perspective", *International E-Symposium on Recent Advancements in Information and Communication Technology (RAICT 2020)*.
- **Mohd Waris Khan, et al.,** "The Role of Cyber Security in Digital Life", *International E-Symposium on Recent Advancements in Information and Communication Technology (RAICT 2020)*.
- **Mohd Waris Khan, et al.,** "A Survey on Potential Problems in Software Security", *International E-Symposium on Recent Advancements in Information and Communication Technology (RAICT 2020)*.
- **Mohd Waris Khan, et al.,** "Issues and Challenges in Security Testing of Web Based Applications", in *International E-Symposium on Recent Advancements in Information and Communication Technology (RAICT 2020)*.
- **Mohd Waris Khan**, Poster Presentation on "Development of CRSE to Enhance the Capacity of Current Software, *in the International Conference on Emerging Trends in Information Technology (ICETIT-2015)*, 23rd to 24th Mar 2015.
- **Mohd Waris Khan, et al.,** "Framework For requirement Validation", *Int. Conference on Advances in Engineering & Technology (AET-2013)*, pp.37-42, 2013. (ISBN-978-81-927082-1-7)
- **Mohd Waris Khan, et al.,** "Role of Requirement Validation in Requirement Development", *Proc. of International Conference on Recent Development in Engineering and Technology*, Mysore, ISBN: 978-93-82208-29-7, pp. 97-101, 2012.
- **Mohd Waris Khan, et al.,** "An Enhanced Edification for Validation of Factual Requirements", *in Proc. of International Conference on Electrical and Computer Science (ICEECS)*, pp. 124-127, Bangalore, India, October 7, 2012. (ISBN: 978-93-82208-26-6)

PAPER PUBLISHED IN NATIONAL CONFERENCES

- **Mohd Waris Khan, et al.,** "Integration of security testing framework in software development life cycle, , *4th Lucknow Science Congress LUSCON-2017, National Conference on Science Technology & Innovation for Sustainable Development*, 3rd & 4th March 2017.
- **Mohd Waris Khan, et al.,** "Security Testing: problems and Prospects", *National Seminar on Emerging Trends & Advancements in Cyber Security*- April-2016, at Integral University, Lucknow**.
- **Mohd Waris Khan, et al., "**Security Testing Profile: An Introduction", *National conference on Information Security Challenges (NCISC-2016)*, 24th Feb 2016, Lucknow.
- **Mohd Waris Khan, et al.,** "Phishing: An Emergent Threat", *National Conference on Information Security Challenges (NCISC-2016)*, 24th Feb 2016, Lucknow.
- **Mohd Waris Khan, et al.,** "An Overview of Data Mining in E-Governance", *National conference on Information Security Challenges (NCISC-2016)*, 24th Feb 2016, Lucknow.
- **Mohd Waris Khan**, Cyber Conclave- An Information Security and Hacking Conference, held at BBD Auditorium, on 6th -7th Feb. 2016, Lucknow.
- **Mohd Waris Khan**, "Development of Security Testing Profile", *National Meet for Research Scholars in Computer Science-2015*, Organized by Department of Computer Science, University of Lucknow, Lucknow, India.
- **Mohd Waris Khan, et al.,** "Improving the quality of E-learning Services: A Cleanroom Software Engineering Approach", *3rd Lucknow Science Congress LUSCON-2015, National Conference on Science for Society: An Interdisciplinary Approach*, 31st Oct-2nd Nov 2015.
- **Mohd Waris Khan, et al.,** "A critical Review on Software Testing: Security Perspective", *3rd Lucknow Science Congress LUSCON-2015*, National Conference on Science for Society: An Interdisciplinary Approach, 31st Oct-2nd Nov 2015.
- **Mohd Waris Khan**, "Integrating Quality within Box structure: Cleanroom Software Approach Perspective", *3rd Lucknow Science Congress LUSCON-2015*, National Conference on Science for Society: An Interdisciplinary Approach, 31st Oct-2nd Nov 2015.
- **Mohd Waris Khan**, "The role of ICT in women Empowerment", *National Seminar on Inclusive Growth of Minority Women through ICT*, 13th-14th Feb 2015 at KMCUAF University, Lucknow, India.

PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS

- **Mohd Waris Khan, et al.,** "Ransomware - Threats, Vulnerabilities, and Targets in Cloud Environment," *NeuroQuantology*, vol. 20, no. 6, pp.100078-100090, 2022. (ISSN:1303-5150)
- **Mohd Waris Khan, et al.,** An Analysis of Security Issues for Cloud Computing, International Research Journal of Management Science & Technology, vol. 13, no. 5, pp.163-172, 2022. (ISSN:2250-1959)
- **Mohd Waris Khan, et al.,** "Digital Twins: A Revamp for the Requirement Management and Product Development Engineering," *International Research Journal of Science Engineering and Technology*, Volume 12, Issue 1, pp. 179-187, 2022. (ISSN: 2454 -3195)
- **Mohd Waris Khan, et al.,** "Adaptation of Digital Twins as a methodology for management and development of Secure Software Systems," *NeuroQuantology*, Volume 19, Issue 7, pp. 300-309, 2021. (ISSN:1303-5150)
- **Mohd Waris Khan, et al.,** "A Review on Defects Categorization and Detection Reading Techniques for Developing the Effective SRS Documentation," *International Research Journal of Management Science & Technology*, vol.12, no.9, pp.111-121, 2021. (ISSN: 2250 – 1959)
- **Mohd Waris Khan, et al.,** A Review on Some Pertinent Software Security Risk Management Frameworks, *International Journal of Innovative Research in Science, Engineering and*

Technology (IJIRSET), Vol.9, No.2, pp.58-62, 2020. (ISSN: 2319-8753)

- **Mohd Waris Khan, et al.,** "Revisiting Requirement Elicitation Process: A Security Perspective", *International Research Journal of Science Engineering and Technology*, ISSN 2454-3195, Vol. 9 Issue 1, pp 46-54, 2019. (ISSN: 2454-3195)
- **Mohd Waris Khan, et al.,** "The Impact of Crowd sourcing in Software Engineering: Software Testing Perspective", *International Journal of Advanced Research in Computer Science*, Volume 8, No. 7, pp. 250-252, July – August 2017. (ISSN: 0976-5697)
- **Mohd Waris Khan, et al.,** "Revisiting Software Security Models: A Design Perspective", International refereed research journal, *Academic Social Research*, Volume-2, Issue-1, January to March 2016. (ISSN: 2456-2645)
- **Mohd Waris Khan, et al.,** "Role of Requirement Engineering in E-Learning Services", *Global Journal of Multidisciplinary Studies*, ISSN: - 2348-0459, Volume 3, Issue 5, April-2014. (ISSN: 2348-0459)
- **Mohd Waris Khan, et al.,** "Requirement Validation vs. Requirement Elicitation", *International Journal of Computer & Communication Technology*, Volume-4, Issue-2, pp. 30-37, 2013. (ISSN: 0975 – 7449)

BOOK EDITED/ AUTHORED

- **Mohd Waris Khan, et al.,** "Fundamentals of Software Security Testing" JRF International Book Publication, 2019. (ISBN No: 978-61-98743-89-3)
- **Mohd Waris Khan, et al.,** "Cyber Security: Theory & Practices", Tridev Publication, 2019. (ISBN No: 978-14-43400-92-9)

BOOK CHAPTERS

- **Mohd Waris Khan, et al.,** Analyzing Strategies Employed in Disseminating Deceptive Content on Social Media," *Emerging Trends in IoT and Computing Technologies (1ˢᵗ ed.)*, CRC Press, Taylor and Francis Group, 2024. (ISBN: 9781003535423)
- **Mohd Waris Khan, et al.,** "Cyber Security's Influence on Smart Cities: Challenges and Solutions," *Contemporary Innovations in Engineering and Management*, AIP Publishing, Vol. 2821, pp.040033:1–12, 2023. (ISBN: 9780735447356)
- **Mohd Waris Khan, et al.,** "An Investigation with Emerging Issues and Preventive Measures: Cloud Computing Perspective," *Contemporary Innovations in Engineering and Management*, AIP Publishing, Vol. 2821, pp.020014:1–9, 2023. (ISBN: 9780735447356)
- **Mohd Waris Khan, et al.,** "The UAV Assisted Wireless Ad Hoc Network", *Computational Intelligent Security in Wireless Communications (1ˢᵗ ed.)*, CRC Press, Taylor and Francis Group, pp.131-160, 2022. (ISBN: 9781003323426)
- **Mohd Waris Khan, et al.,** Current Issues and Challenges for Memory Forensics: Security Perspective, *Information & Communication Technology*, Aargon Press, pp.418-431, 2022. (ISBN: 978-93-94070-92-9)
- **Mohd Waris Khan, et al.,** Cyber Security Challenges and It's Need in Smart Security, *Information & Communication Technology*, Aargon Press, pp.432-447, 2022. (ISBN: 978-93-94070-92-9)
- **Mohd Waris Khan, et al.,** Exploring Potential Problems with Information Security Risk Management, *Information & Communication Technology*, Aargon Press, pp.448-460, 2022. (ISBN: 978-93-94070-92-9)
- **Mohd Waris Khan, et al.,** "Paradigms of Smart Education with IoT Approach", *Internet of Things and Its Applications*, Springer Nature, Springer Nature International Publishing, pp.223-232, 2021. (ISBN: 978-3-030-77527-8)

- **Mohd Waris Khan, et al.,** "A Comparative Study on Data Mining Approach Using Machine Learning Techniques: Prediction Perspective", *A Compendium of Critical Factors for Success, Pervasive Healthcare*, EAI/Springer Innovations in Communication and Computing, Springer International Publishing, pp.153-165, 2021. (ISBN: 978-3-030-77745-6)
- **Mohd Waris Khan, et al.,** "A Fuzzy Multi-Criteria Decision-Making for Managing Network Security Risk Perspective", *Cloud-Based Data Analytics in Vehicular Ad-Hoc Networks*, IGI Global, pp.115-140, 2020. (ISBN: 9781799827641)
- **Mohd Waris Khan, et al.,** "Current Challenges of Digital Forensics in Cyber Security", *Critical Concepts, Standards, and Techniques in Cyber Forensics*, IGI Global, pp.31-46, 2020. (ISBN: 9781799815587)
- **Mohd Waris Khan, et al.,** "Trends in Malware Attacks- Identification and Mitigation Strategies", *Critical Concepts, Standards, and Techniques in Cyber Forensics*, IGI Global, pp.47-60, 2020. (ISBN: 9781799815587)
- **Mohd Waris Khan, et al.,** "Critical Review on Software Testing: Security Perspective", *Smart Trends in Information Technology and Computer Communications*, Springer CCIS series, pp.714-713, Jaipur, India, 2016. (ISBN: 978-981-10-3432-9)

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