

## **Dr. Mushtaq Ahmed**

Associate Professor  
F-IE, LM-ACM, LM-ISTE, LM-ACCS,  
Senior MIEEE, Senior Member IACSIT,  
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Member AAAI



### **OFFICIAL ADDRESS:**

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### **BRIEF RESEARCH PROFILE:**

Dr Mushtaq Ahmed is presently working as an Associate Professor in the Department of Computer Science and Engineering at Malaviya National Institute of Technology Jaipur, Rajasthan, India. He has more than 25 years of teaching experience in MNIT. His research domain includes Network-on-Chip, Embedded Systems, Blockchain technology, IoT, Cloud Computing, Wireless Sensor Networks, Fault-Tolerant Systems, and High-speed Overlay Networking. He has published more than eighty papers in various International Journals and Conferences. He is a PI/Co-Pi in three research projects, one international patent, and one Indian patent. He has successfully guided six PhDs and twenty one PG research scholars and currently supervising seven PhDs. He is a Member of the Board of Studies of Gujarat Technological University, board of Studies member of Amity University, Jaipur and member of the "Research Board" of UEM Jaipur. He is a Fellow IE(India), Life Member of ACM, Life member of ISTE, Life Member of ACCS, Member IEEE, and Member IEANG.

### **RESEARCH INTERESTS:**

Network on Chip , Computer Networks, Embedded Systems, Multi-Core And Cloud Computing, Wireless Sensor Networks, Fault Tolerant Systems, High Speed Overlay Networking.

### **PhD THESIS WORK:**

Completed PhD research in the area of Network-on-Chip (NoC) with the thesis titled "*Adaptive Fault Tolerant Routing for 2D Mesh Network on Chip*". This work developed minimal, adaptive, and fault-tolerant routing algorithms to enhance the performance of 2D Mesh NoCs. Key contributions include the Min-

imal Adaptive XY (MAXY) routing algorithm, optimized mesh architectures, and the introduction of fault-tolerant algorithms such as Minimal Path Fault Tolerant (MinFT) and Fault Tolerant Parameterized Path-based Randomized Oblivious Minimal (FTPROM). These algorithms improve throughput, latency, and energy efficiency while maintaining fault tolerance, making them suitable for high-performance NoC implementations.

#### **TEACHING:**

- CPT601-Topics in Algorithms (PG Course)
- CST450-Wireless Sensor Networks (PG/UG Course)
- CST307-Computer Networks (UG Course)
- CSP205-Digital Logic Design (UG Course)
- CST304-Embedded Systems (UG Course)
- CST301-Computer Architecture (UG Course)
- CST302-Operating System (UG Course)
- CST434-Parallel and Distributed Computing (UG Course)

#### **VISITING FACULTY:**

- In Indian Institute of Information Technology, Kota (IIIT, Kota) in the Year 2021 & 2022.

#### **AWARDS & HONOURS:**

- Guest of Honor for Sir Sayed Day 2025 given by Old Boys union of AMU Year - 2025
- Outstanding Engineering Services to Society given by The Institute of Engineers (India) Year-2024.
- ICECI 2023 International Conference paper1 for Best Paper Award: Deep Learning with encoders for Intrusion detection systems given by AMU Aligarh Year - 2023
- Excellence in Education 2023 for Outstanding services in the field of Education and invaluable Contribution to the Society at large given by Association of Muslim Professional(AMP) Year-2023.

#### **PhD GUIDANCE:**

**THESIS AWARDED 08:**

- Awarded to Dr. Idris Afzal Shah (ID: 2019RCP9183): Optimized Routing Strategies for Performance Enhancement in Delay Tolerant and Wireless Sensor Networks on August 8<sup>th</sup>, 2024.
- Awarded to Dr. Jitendra Goyal (ID: 2018RCP9080) on the topic "A Secure Framework for IoT Using Blockchain Technology" on April 16<sup>th</sup>, 2024.
- Awarded to Dr. Diwakar Gautam (ID: 2013RCP9003) on the topic "Early Stage Detection and Classification of Melanoma" on June 01<sup>st</sup>, 2021.
- Awarded to Dr. Maninder Singh Nehra (ID: 2013RCP9553) on the topic "Design And Development Of Devanagiri Script Handwritten Text Corpus With Annotation" on December 23<sup>rd</sup>, 2019.
- Awarded to Akash Yadav (ID: 2019RCP9150) on the topic "Improving loop parallelism in automatic parallelizing compiler" Year - 2019
- Awarded to Dr. Kunwar Pal (ID: 2013RCP9568) on the topic "Quality Aware Adaptive Live Video Streaming in Peer-to-Peer Network" on October 15<sup>th</sup>, 2018.
- Awarded to Dr. Maroti Deshmukh (ID: 2014RCP9539) on the topic "Secret Sharing Schemes for Multimedia Data" April 04<sup>th</sup>, 2018.
- Awarded to Dr. Tapas Badal (ID: 2013RCP9004) on the topic "Non-Chronological Video Synopsis and Indexing" on March 12<sup>th</sup>, 2018.

**CURRENT Ph.D. STUDENTS: 06**

- Shruti Dadhich (ID: 2024RCP9059) Blockchain Security in Medical Health Care System Year - 2024
- Sanjay Tehariya (ID: 2018RCP9160): Performance optimization of live video streaming over peer-to-peer overlay networks.(Submitted)
- Pravesh Bansal (ID: 2019RCP9557): Student behaviour analysis using machine learning.
- Madhav Khatri (ID: 2022RCP9027): Cloud Load Balancing and Security
- Ravindra Singh (ID: 2022RCP9520): Performance analysis of on-chip interconnected networks.
- Gaurav Kumar Das (ID: 2023RCP9025): AI and ML for Medical Image processing.

**MEMBERS OF BODIES OUTSIDE MNIT:**

- Member of Board of Studies for Computer and its allied branches from 27th July 2021 for three years of Gujarat Technological University
- Member of board of Studies Amity Institute of Information Technology, Amity University Jaipur from 12 December 2020

- Members-of-academic-council, Global Institute of Technology, Jaipur since 2019
- Member board of Studies, Mewar University, 28 Nov. 2016
- Expert for reviewing the procurement plan of the Engineering Colleges of Rajasthan under TEQIP III, 27th NOV, 2019 to 8th FEB, 2021
- Member of SRDC (School Research Development Committee), Amity University Jaipur since 11th September 2018
- Member of DRC/ RDC committee for Computer Science and Engineering of Dr K.N. Modi University 17 June 2020
- Member of "Research Board" of University of Engineering and Management Jaipur from April 29 2021
- Member of Review Board of Subodh Journal of Recent Trends in Information Technology (ISSN NO. 0975- 9875) Publish by: S.S. Jain Subodh P.G. (Autonomous) College, Jaipur

#### **MEMBERSHIP OF PROFESSIONAL SOCIETIES:**

- Fellow of IE (India) (F-1291269)
- Lifetime Member ACM (4558049)
- Life Member of Advanced Computing and Communication Society(ACCS) (L00A23123726)
- Life Member of Indian Society for Technical Education (ISTE) (LM135348)
- Senior Member of IEEE (94246290)
- Member of Association for the Advancement of Artificial Intelligence (AAAI) (87490)
- Member of International Association of Engineers (IAENG) (143488)

#### **PATENTS:**

- "Blockchain And Iot Based Electronics Health Record Device", Jitendra Goyal, Mushtaq Ahmed, Dinesh Gopalani, Aditi Sharma, Akash Yadav , Reg.No. 121444 [THE PATENT OFFICE, GOVERNMENT OF INDIA] awarded on Dt.23-12-2022
- "Trusted and secure configuration and validation of data for public IoT devices using blockchain technology", Dumka, Ankur; Ashok, Alaknanda; ; Ahmed, Mushtaq et.al. , Reg.No. 2020103294 [IP Australia (Australian Govt.)] Patent Granted: Dt.23-02-2020

## RESEARCH PROJECTS:

- “AI-Powered Cyber Resilience: A National Security Framework for Pre-emptive Threat Mitigation” Sponsored by Anusandhan National Research Foundation (ANRF) , Accepted for technical evaluation
- “A Framework for Multi-Layer Behavioral Profiling of Tor Network Traffic” Sponsored by Anusandhan National Research Foundation (ANRF) , Accepted for technical evaluation
- “Crop Yield Enhancement by Soil Sensing” Funded by NewGenIEDC DST IIT Allahabad
- “Empower Rural Medical Services Using a Computer Aided Cancer Diagnostic Deep Learning Model for Oral” Sponsored by NPIU, MHRD, Govt. of India, Mr. Diwakar Gautam, Dr. Mushtaq Ahmed & Dr. Deepak Jhanwar.
- “Urdu Corpus Development and Handwritten Text Recognition”, Sponsored by DST, Govt. of Rajasthan, Dr. Neeta Nain(PI) & Dr. Mushtaq Ahmed.

## PUBLICATIONS - INTERNATIONAL JOURNALS (SCI / SCI-E/Scopus):

- Idris Afzal Shah, Mushtaq Ahmed, and Injila Mubarik, ”Performance Evaluation of FK - means RA with LEACH Variants in WSNs” , Telfor Journal (ETF School of Electrical Engineering University of Belgrade) Volume :17/9-14/2025  
DOI: <https://doi.org/10.5937/telfor2501008S>
- Bhavna Ambudkar, Mushtaq Ahmed, Saif Al-Deen H. Hassan , Moumal Al-Saady, ”Optimization of Handover Delay during Authentication” , Journal of Advanced Research Design (Academia Baru Malaysia) Volume :136 /138-153/2025  
DOI: <https://doi.org/10.37934/ard.136.1.138153>
- Idris Afzal Shah, Mushtaq Ahmed, ”Survey on Protocols in MANETs, WSNs and DTNs” , International Journal of System Assurance Engineering and Management (Springer ) Volume :31//2025  
DOI: <https://doi.org/10.1007/s13198-025-02760-1>
- Akash Yadav, Mushtaq Ahmed, ”A Framework for efficiently parallelizing loops for many core systems” , SN Computer Science (Springer ) Volume :6//2025  
DOI: 10.31803/tg-20241206111011
- Idris Afzal Shah, Mushtaq Ahmed, ”An Optimized Load Balancing Probabilistic Protocol for Delay Tolerant Networks accepted” , SN Computer Science (Springer ) Volume :24/22/2025  
DOI: tba

- Akash Yadav, Mushtaq Ahmed, "Robust Block-Based Watermarking Algorithm with Parallelization Using Multi-Level Discrete Wavelet Transformation" accepted" , Journal of Real-Time Image Processing (Springer ) Volume :21/15/2024  
DOI: 10.1007/s11554-024-01559-w
- Idris Afzal Shah, Mushtaq Ahmed, "Load Propagation Balancing Strategy for Wireless Sensor Networks" , journal Tehnicki glasnik/Technical Journal (Journal Tehnicki glasnik) Volume :19//2024  
DOI: 10.31803/tg-20240316121244
- Aga Basit Iqbal, Idris Afzal Shah, Injila, Assif Assad, Mushtaq Ahmed, and Syed Zubair Shah, "A Review of Deep Learning Algorithms for Modeling Drug Interactions" , Multimedia Systems (Springer ) Volume :30/45/2024  
DOI: 10.1007/s00530-024-01325-9
- Mushtaq Ahmed, Bhavna Ambudkar, Akash Yadav, "Efficient Power Estimation for 3D-Mesh Optic Communication Network" , Ingenierie Des Systemes D-Information (Scopus) (International Information and Engineering Technology Association) Volume :29/27-34/2023,  
DOI: <https://doi.org/10.18280/isi.290104>
- Yadav, A., Ahmed, M., Ambudkar, B., Kumar, D. (2023). An energy-efficient routing protocol for a modified Fat-Tree topology in system-on-chip design. Mathematical Modelling of Engineering Problems, Vol. 10, No. 6, pp. 2149-2157.  
DOI:<https://doi.org/10.18280/mmep.100627>
- Akash Yadav, Mushtaq Ahmed, "Performance Analysis of Parallel Implementations of Global Sequence Alignment Methods for DNA Sequencing", (Accepted)International Journal of Computing and Digital Systems (Elsevier) Volume:14/05/2023  
DOI: <http://dx.doi.org/10.12785/ijcds/140119>
- Idris Shah, Mushtaq Ahmed, "Fuzzy K-Means Clustering Routing Algorithm for Load Balancing in Wireless Sensor Networks", Wireless Personal Communications (Springer) Volume:28 / 13 / 2023  
DOI: <https://doi.org/10.1007/s11277-023-10320-8>
- Idris Shah, Mushtaq Ahmed, Ragavendra Singh, "Pentago SnW: An improved Spray and Wait protocol for Delay Tolerant Wireless Sensor Networks", (Accepted) China Communications (IEEE) Volume:20 / / 2023  
DOI: tba
- Jitendra Goyal, Mushtaq Ahmed, Dinesh Gopalani, Neelu Pandey, Faisal Ahmed, "An Efficient Fuzzy-Based Vaccine Distribution Using Blockchain Technology", (Accepted)International Journal of Computing and Digital Systems (Elsevier) Volume:14 / 8 / 2023  
DOI: <http://dx.doi.org/10.12785/ijcds/140140>
- Ansari, S.A., Pal, K., Govil, M.C. Ahmed, A. et al. Score-based Incentive Mechanism (SIM) for live multimedia streaming in peer-to-peer network. Multimed Tools Appl 80, 19263–19290 (2021).  
DOI: <https://doi.org/10.1007/s11042-021-10709-2>

- Kunwar Pal, Mahesh Chandra Govil, Mushtaq Ahmed "FLHyO: fuzzy logic based hybrid overlay for P2P live video streaming" Multimedia Tools and Applications Volume :78 / 33679-3370 / 2019 (Springer US).  
<https://doi.org/10.1007/s11042-019-08010-4>
- Maroti Deshmukh, Neeta Nain, Mushtaq Ahmed "Secret sharing scheme based on binary trees and Boolean operation" Knowledge and Information Systems Volume :60 / 1377-1396 / 2019  
<https://doi.org/10.1007/s10115-018-1268-9>
- Maroti Deshmukh, Neeta Nain, Mushtaq Ahmed "Efficient and secure multi secret sharing schemes based on boolean XOR and arithmetic modulo" Multimedia Tools and Applications Volume :77 / 89-107 / 2018 (Springer US).  
<https://doi.org/10.1007/s11042-016-4229-x>
- Kunwar Pal, Mahesh Chandra Govil, Mushtaq Ahmed "Priority-based scheduling scheme for live video streaming in peer-to-peer network" Multimedia Tools and Applications Volume :77 / 24427-2445 / 2018 (Springer US).  
<https://doi.org/10.1007/s11042-018-5741-y>
- Mohit Rajput, Maroti Deshmukh, Neeta Nain, Mushtaq Ahmed "Securing data through steganography and secret sharing schemes: trapping and misleading potential attackers" IEEE Consumer Electronics Magazine Volume :7 / 40-45 / 2018 (IEEE)  
<https://doi.org/10.1109/MCE.2017.2716412>
- Diwakar Gautam, Mushtaq Ahmed, Yogesh Kumar Meena, Ahtesham Ul Haq "Machine learning-based diagnosis of melanoma using macro images" International journal for numerical methods in biomedical engineering Volume :34 / 2953 / 2018 (Wiley Online library).  
<https://doi.org/10.1002/cnm.2953>
- Kunwar Pal, Mahesh Chandra Govil, Mushtaq Ahmed "Slack time-based scheduling scheme for live video streaming in P2P network" International Journal of Communication Systems Volume :31 / 3440 / 2018 (Wiley Online Library )  
<https://doi.org/10.1002/dac.3440>
- Tapas Badal, Neeta Nain, Mushtaq Ahmed "Online multi-object tracking: multiple instance based target appearance model" Multimedia Tools and Applications Volume :77 / 25199-2522 / 2018 (Springer US).  
<https://doi.org/10.1007/s11042-018-5781-3>
- Deshmukh, M., Nain, N., Ahmed, M. "A novel approach for sharing multiple color images by employing Chinese Remainder Theorem " Journal of Visual Communication and Image Representation Volume :49 / 291 - 302 / 2017 (Elsevier )  
<https://doi.org/10.1016/j.jvcir.2017.09.013>
- K. Pal, M. C. Govil , Mushtaq Ahmed "Comparative Analysis of Utilization Based Hybrid Overlay for Live Video Streaming in P2P Network"

International Journal of Intelligent Engineering and Systems Volume :10/  
263-271 / 2017 (IJIES)  
<http://www.inass.org/2017/2017063030.pdf>

- Maroti Deshmukh, Neeta Nain, Mushtaq Ahmed "Efficient and secure multi secret sharing schemes based on Boolean XOR and arithmetic modulo" Multimedia Tools and Applications Volume :75 / 1-19 / 2016 ISBN: 1380-7501 (Springer)  
<https://doi.org/10.1109/AINA.2016.56>
- Prakash C, N, Nain, Mushtaq Ahmed "A Structure for Annotation and Ground-truthing of Urdu Handwritten Text Image Corpus " Procedia - Social and Behavioural Sciences- Science Direct Volume :198 / 84-88 / 2015 (Elsevier).  
<https://doi.org/10.1016/j.sbspro.2015.07.422>
- Ravindra Kumar Saini, Mushtaq Ahmed "2D Hexagonal Mesh Vs 3D Mesh Network on Chip: A Performance Evaluation" International Journal of Computing and Digital Systems Volume :4 / 33-41 / 2015 ISBN: 2210-142X (IJCDS)  
<http://dx.doi.org/10.12785/IJCDS/040104>
- Deepa, M., Maninder, N., Neeta, N., & Mushtaq, A. (2015). A Survey of Techniques for Two Level Corpus Annotation for Hindi. Int. Bull. Math. Res, 2, 194-206.  
<http://journalibmr.org/images/IBMR020118.pdf>
- Mushtaq Ahmed, V. Laxmi, M. S. Gaur "Performance Analysis of Minimal Path Fault-Tolerant Routing in NoC" Journal of Electronics (China) Volume:28 / 587-595 / 2011 ISBN: 0217-9822 (Springer)  
<https://doi.org/10.1007/s11767-012-0701-6>

#### **PUBLICATIONS - INTERNATIONAL CONFERENCES (SCI/Scopus)**

- Sai Kumar Reddy, Mushtaq Ahmed, Agam Kumar Singh, Bhavna Ambudkar , "Power and Performance Evaluation of Spidergon and Mesh Topology in Network-on-Chip" , 18th IEEE International Symposium on Embedded Multicore Many-Core Systems-on-Chip MCSoc 2025 ACCEPTED by :IEEE at Singapore / / 2025
- Agam Kr Singh, Mushtaq Ahmed, "A Lightweight Modular Arithmetic Defense Against Model Poisoning in Federated Learning ACCEPTED" , 17th IEEE International Conference on Computational Intelligence and Communication Networks by :IEEE at NIT Goa / / 2025
- Ravinder Singh Agam Kr Singh and Mushtaq Ahmed, "Secure Multimodal Data Encryption Using CRT-Based Encryption and MITM-Resilient Hybrid ElGamal AES ACCEPTED" , 18th IEEE International Symposium on Embedded Multicore Many-Core Systems-on-Chip MCSoc 2025 Singapore, by :IEEE at Singapore / / 2025

- Alina Khan, Najiba Yaseen Khan, Punit Kumar. Mudit Kothari, Pethani Smit, Mushtaq Ahmed, "Oral Cavity Cancer Detection Using Deep Neural Network Models" , 7th IEEE International Conference on Smart Applications, Communications and Networking Smartnets by :IEEE at Istinye University. Istanbul Turkiye / 6 / 2025 ISBN: 1106382
- Sanjay Tehariya, Mushtaq Ahmed, "IDCNN Efficient Multi-Class Intrusion Detection on Imbalanced Data in Software Defined Network" , 6th International Conference on Data Science and Applications ICDSA 2025 by :Springer at MNIT JAIPUR / / 2025
- Pravesh Kumar Bansal, Mushtaq Ahmed, "A Hybrid XAI Approach to Predict and Interpret Student Outcomes in Education" , 6th International Conference on Data Science and Applications ICDSA 2025 by :Springer at MNIT JAIPUR / / 2025
- Sanjay Tehariya, Mushtaq Ahmed, "Enhanced and Secure SDN-Enabled CPS: Mitigating MiTM Using Multi-Model Learning" , International Conference on Communication, Computing, Networking, and Control in Cyber-Physical Systems by :IEEE at University of Dubai UAE / 6 / 2025
- Pravesh Bansal, Mushtaq Ahmed, "Optimized Perception-Based Student Behavior Analysis Using Machine Learning" , International Conference on Emerging Applications of Intelligence and Computing EAIC 2025 by :IEEE at NIT Jalandhar / / 2025
- Madhav Khatri, Mushtaq Ahmed , "A-FLB: Dynamic Adaptive Fuzzy-Based Load Balancing With Genetic Optimization for Enhanced Cloud Performance" , 17th International Conference on COMMunication Systems NETworkS ComsNet25 by :IEEE at Chancery Pavilion Hotel, Residency Road, Bengaluru / 6 / 2025
- Alina Khan, Diwakar Gautam, Deepak Jhanwar, Farruckh Anwar, Mushtaq Ahmed, "Color Preservation of Lymphoblastic Cells Using Statistical Region Merging", 1st International Conference On Pioneering Developments In Computer Science & Digital Technologies by IEEE at NIT, DELHI // 2024
- Idris Afzal Shah, Mushtaq Ahmed, "A Novel Delay Tolerant Routing Protocol for Opportunistic Networks Accepted" , 9th International Conference for Convergence in Technology (I2CT-2024), Lonavala Pune // 2024
- Pravesh Bansal, Mushtaq Ahmed, "Fuzzy Logic-Based Analysis of Student Behavior Patterns in Educational Environments" , 4th International Conference on Innovation in IoT Robotics and Automation, MIT Moradabad India // 2024
- Vijay Budania, Sanjay Tehariya, Suhana Sharma, Atinder Pal Singh, Aman Mina, Mushtaq Ahmed, "Coalition-Based Web Server Load Balancing in Software Defined Network" , The 6th International Conference on Computational Intelligence Networks CINE-2024 by :IEEE at KIIT DU Bhubaneswar, India / 6 / 2024

- Jitendra Goyal, Mushtaq Ahmed, Dinesh Gopalani, "Cemetery Allocation Management System Using Ethereum Blockchain Accepted", 4th International Conference on Data Science and Applications ICDSA 2023 by: Springer at MNIT Jaipur India.
- M. Ahmed, M. Khatri, F. Ahmed and J. Goyal, "An Optimized Fuzzy-based Load Balancing in Cloud Computing," 2023 International Conference on Recent Advances in Electrical, Electronics & Digital Healthcare Technologies (REEDCON), New Delhi, India, 2023, pp. 323-328, DoI: 10.1109/REEDCON57544.2023.10150583.
- Akash Yadav, Mushtaq Ahmed, Alina Khan, "An Efficient Hybrid MPI-OpenMP Based Parallel Approach for Longest Common Subsequence", 27th Annual International Conference on Advanced Computing and Communications ADCOM 2022 Accepted by :ACCS at IIITB, Bangalore / / 2023
- Sanjay Teheriya, Mushtaq Ahmed, "New Fuzzy Logic Based Hybrid Overlay NFLHyO in P2P Live Streaming" , 5th International Conference on Communication and Computational Technologies -ICCCT 2023 by :ICCCT 2023 at Rajasthan Institute of Engg. and Tech., Jaipur / / 2023
- Vijay Budania, Mushtaq Ahmed, "Deep Learning With Encoders for Intrusion Detection Systems - Awarded Best Paper" , International Conference on Emerging Computation Intelligence -ICECI 2023 by :ICECI 2023 at AMU Aligarh, UP // 2023
- Pravesh Bansal, Musthaq Ahmed, "An Expert System for Analyzing the Behavior of Students in the Higher Education - Awarded Best Paper" , International Conference on Emerging Computation Intelligence -ICECI 2023 by :ICECI 2023 at AMU Aligarh, UP / / 2023
- Jitendra Goyal, Deeksha Ratnawat, Mushtaq Ahmed, Dinesh Gopalani , "Simulation and Synthesis of SHA-256 Using Verilog HDL for Blockchain Applications", Advances in Data-Driven Computing and Intelligent Systems ADCIS 2022 by :Springer Nature Singapore at Goa, India / 463-477 / 2022 ISBN: 978-981-99-0980-3
- Sagar, S., Ahmed, M., Husain, M.Y. (2022). Fuzzy Randomized Load Balancing for Cloud Computing. In: Barolli, L. (eds) Advances on P2P, Parallel, Grid, Cloud and Internet Computing. 3PGCIC 2021. Lecture Notes in Networks and Systems, vol 343. Springer, Cham. [https://doi.org/10.1007/978-3-030-89899-1\\_3](https://doi.org/10.1007/978-3-030-89899-1_3)
- J. Goyal, M. Ahmed and D. Gopalani, "Empirical Study of Standard Elliptic Curve Domain Parameters for IoT Devices," 2021 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), 2021, pp. 1-6, <https://doi.org/10.1109/ICECCE52056.2021.9514179>
- Akash Yadav, Mushtaq Ahmed and Daitule Omkar Vilas , "Exploiting Processor Variability for Efficient Application Mapping" International Conference on Intelligent Computing and Networking by Springer Singapore

at Mumbai / 1-9 / 2020.

[https://doi.org/10.1007/978-981-15-7421-4\\_1](https://doi.org/10.1007/978-981-15-7421-4_1)

- Anjali Saini, Mushtaq Ahmed, Kartikey Sharma ,”Detection of Suspicious Activity in ATM Booth” International Conference on Intelligent Computing Techniques for Smart Energy Systems by Springer Singapore at Jaipur / 911-925 / 2020  
[https://doi.org/10.1007/978-981-15-0214-9\\_97](https://doi.org/10.1007/978-981-15-0214-9_97)
- Kunwar Pal, MC Govil, Mushtaq Ahmed ,”Utilization-Based Hybrid Overlay for Live Video Streaming in P2P Network” Recent Findings in Intelligent Computing Techniques. Advances in Intelligent Systems and Computing by Springer, Singapore at Goa / 331-338 / 2019.  
[https://doi.org/10.1007/978-981-10-8639-7\\_34](https://doi.org/10.1007/978-981-10-8639-7_34)
- Maninder Singh Nehra, Neeta Nain, Mushtaq Ahmed, Deepa Modi ,”POS Tagging and Structural Annotation of Handwritten Text Image Corpus of Devnagari Script” International Conference on Emerging Technologies in Computer Engineering by Springer, Singapore at Jaipur / 286-297 / 2019.  
<https://doi.org/10.1109/MENACOMM46666.2019.8988574>
- Mushtaq Ahmed, Saurabh Goyal, Siddhartha Singh, Jaiprakash Gupta ,”An Improved Spray and Wait Routing Protocol for Delay Tolerant Network” 2019 2nd IEEE Middle East and North Africa COMMunications Conference (MENACOMM) by IEEE at Manama, Bahrain, Bahrain / 1-6 / 2019.  
<https://doi.org/10.1109/MENACOMM46666.2019.8988574>
- Ravindra Kumar Saini, Mushtaq Ahmed ,”Restricted Turn Model Fault Tolerant Routing Techniques for 3D Mesh Network-on-Chip: An Evaluation” International Congress on Information and Communication Technology by Springer, Singapore at Bangkok / 113-122 / 2018.  
[https://doi.org/10.1007/978-981-10-5508-9\\_10](https://doi.org/10.1007/978-981-10-5508-9_10)
- Tapas Badal, Neeta Nain and Mushtaq Ahmed ,”Multi-Object Trajectory Coupling Using Online Target Specific Decision Making” 2017 IEEE International Conference on Identity, Security and Behavior Analysis (ISBA) by IEEE at New Delhi / 1-6 / 2017.  
<https://doi.org/10.1109/ISBA.2017.7947702>
- Mushtaq Ahmed, Pankaj Sharma, Kunwar Pal and Mohammed Yaseen Husain ,”Unicast Backtracking Route Recovery in ODMRP” 9th IEEE-GCC Conference and Exhibition by IEEE at Bahrain / / 2017  
<https://doi.org/10.1109/IEEEGCC.2017.8447973>
- Maroti Deshmukh, Neeta Nain, Mushtaq Ahmed ,”A Novel Approach of an (N, N) Multi-Secret Image Sharing Scheme Using Additive Modulo” Proceedings of International Conference on Computer Vision and Image Processing by Springer at IIT Roorkee / 149-158 / 2017.  
[https://doi.org/10.1007/978-981-10-2104-6\\_14](https://doi.org/10.1007/978-981-10-2104-6_14)
- T. Badal, N. Nain and M. Ahmed ,”Generalised Spatio Temporal Feature Based Important Activity Synopsis Generation” 13th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS) by

IEEE at Jaipur / 319-326 / 2017.  
<https://doi.org/10.1109/SITIS.2017.60>

- Tapas Badal, Neeta Nain, Mushtaq Ahmed ,”Surveillance Video Synopsis While Preserving Object Motion Structure and Interaction” International Conference on Computer Vision and Image Processing ) Conference Held at IIT-Roorkee on 26-28 Feb 2016. by Springer at IIT-Roorkee on 26-28 Feb 2016. / 4-8 / 2016  
[https://doi.org/10.1007/978-981-10-2107-7\\_18](https://doi.org/10.1007/978-981-10-2107-7_18)
- Maninder Singh Nehra, Neeta Nain and Mushtaq Ahmed ,”Handwritten Devnagari Script Database Development for Off-Line Hindi Character With Matra (Modifiers)” Proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing by Springer at New Delhi / 233-240 / 2016.  
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- Pal, K., Govil, M.C., Ahmed, M. (2018). Comparative Analysis of New Hybrid Approach for Overlay Construction in P2P Live Streaming. In: Shetty, N., Patnaik, L., Prasad, N., Nalini, N. (eds) Emerging Research in Computing, Information, Communication and Applications. ERCICA 2016. Springer, Singapore.  
[https://doi.org/10.1007/978-981-10-4741-1\\_22](https://doi.org/10.1007/978-981-10-4741-1_22)
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- Maninder Nehra, Neeta Nain and Mushtaq Ahmed ,”Handwritten Devanagari Script Database Development for Offline Hindi Characters With Modifiers” International Conference on Recent Cognizance in Wireless Communication and Image Processing by Springer at Jaipur / 233-240 / 2015.  
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- Sharda Godara, Neeta Nain and Mushtaq Ahmed ,”Handwritten Urdu Script Segmentation Using Hybrid Approach” ICVGIP 2014 - Workshop on Document Analysis and Recognition, DAR 2014 by ACM at IISC Bangalore / 204 - 208 / 2014
- Tapas Badal, Neeta Nain and Mushtaq Ahmed ,”Video Synopsis by Multi-Array Representation of Moving Objects” ICVGIP 2014 Workshop on Applications in Computer Vision, Graphics and Image Processing. by ACM at IISC Bangalore / 200-204 / 2014
- Mushtaq Ahmed, Rakesh Kumar ,”Parameterized Path-Based, Randomized, Oblivious, Minimal Routing in 3D Mesh NoC ” IEEE Tencon 2012 by IEEE at Cebu, Philippines / 1-6 / 2012  
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- Parvati Bhurani, Mushtaq Ahmed and Yogesh Kumar Meena ,”New Measure of Interestingness for Efficient Extraction of Association Rules” International Conference on Information Systems Design and Intelligent Application by Springer Berlin Heidelberg at Visakhapatnam, India / 103-110 / 2012  
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- Mushtaq Ahmed, Vijay Laxmi, M. S. Gaur, Yogesh Meena ,”Parameterized Path Based Randomized Oblivious Minimal Path Routing With Fault Tolerance in 2D Mesh Network on Chip” 2nd International Congress on Computer Applications and Computational Science (CACS2011) by Springer-Verlag GmbH Berlin Heidelberg at Bali, Indonesia / 63-70 / 2011 [https://doi.org/10.1007/978-3-642-28308-6\\_9](https://doi.org/10.1007/978-3-642-28308-6_9)
- N. Rameshan, V. Laxmi, M. S. Gaur, M. Ahmed and K. K. Paliwal, ”Minimal Path, Fault Tolerant, QoS Aware Routing with Node and Link Failure in 2-D Mesh NoC,” 2010 IEEE 25th International Symposium on Defect and Fault Tolerance in VLSI Systems, 2010, pp. 60-66. <https://doi.org/10.1109/DFT.2010.14>
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- Navaneeth Rameshan, Mushtaq Ahmed, M.S.Gaur, and V. Laxmi ,”Minimal Path, Fault Tolerant Routing in 2-D Mesh NoC” VLSI Design and Test (VDAT) Symposium by VLSI Society of India at Chitkara Univ. Chandigarh / 279-288 / 2010
- Mushtaq Ahmed, V. Laxmi, M.S. Gaur ,” Cross-Base Routing Over Diagonalized Mesh ” IRAST International Congress on Computer Applications and Computational Science (CACS 2010), ; 02/2013 by IRAST International Congress on Computer Applications and Computational Science at Singapore / 13-17 / 2010
- Navaneeth Rameshan, M. Ahmed, M.S. Gaur, Vijay Laxmi and Anurag Biyani ,”QoS Aware Minimally Adaptive XY Routing for NoC” Seventeenth Annual International Conference on Advanced Computing and Communications (ADCOM 2009) by Advanced Computing and Communications Society at IISc Bangalore / 300-302 / 2009
- Neeta Nain and Vijay Laxmi and Bhavitavya Bhadviya and B. M. Deepak and Mushtaq Ahmed ,”Fast Feature Point Detector” 4th IEEE International Conference on Signal Image Technology and Internet Based Systems (SITIS 08) by IEEE at Bali, Indonesia / 301-306 / 2008.

#### **INVITED as CHAIRED/CO-CHAIRLED /KEYNOTE SPEAKER:**

- Session chair on ”Artificial Intelligence for Healthcare and Smart Apps II in International Conference on Smart Applications, Communications and Networking (SmartNets): Smart Healthcare System” Turkey Istanbul, July-2025
- Session chair on ”The 17th IEEE MCSoc 2024 in IEEE Symposium” Days Hotel and Suites by Wyndham Fraser Business Park, Kuala, Dec- 2024
- Keynote speaker on ”AI in Medical Healthcare System in TWO-DAY SEMINAR ON AUTOMATION, ROBOTICS, AI AND APPLICATIONS” AMU Aligarh, March-2024

- Keynote speaker on "Recent Advancements in On Chip Interconnected Networks in International Conference on Advances in Higher Technical Education (AHTE-2024)" UEM Jaipur, Feb-2024
- Keynote speaker on "Generative AI and blockchain based application in healthcare system in FDP on Recent Trends in AI and ML for smart computing" Anand International College of Engineering, Jaipur in association with RTU Kota, Feb-2024
- Keynote speaker on "Generative AI and Its Applications in First International Symposium on Data Science -2023" Manipal University, Jaipur, Nov-2023
- Invited as Jury Member in "Contribution of Indian Scientists and Scientific Institutions in the Indian Freedom Struggle: Prof. S.N. Bose" on 21-Oct-2023 at Arya College of Engineering and IT, Kukas, Jaipur.
- Session chair in Emerging Technology session of "4th International Conference on Data Science and Applications (ICDSA 2023)" Malaviya National Institute of Technology Jaipur, July-2023
- Session Chair in "International Conference on Emerging Computation Intelligence -ICECI 2023" International Conference, AMU Aligarh, Mar-2023
- Session chair in 27<sup>th</sup> Annual International Conference on "Advanced Computing and Communications ADCOM 2022" on March 9-11, 2023 organized by The Advanced Computing and Communication Society (ACCS) in association with the International Institute of Information Technology Bangalore (IIITB) at IIITB, Bangalore.
- Session chair in International Conference on "Emerging Computation Intelligence -ICECI 2023" on February 11-12, 2023 organized by the Department of Computer Science, Aligarh Muslim University, Aligarh, Uttar Pradesh, India
- Invited as Jury Member in "Forensic" Hackathon 2023" held during February 1-4, 2023 at National Forensic Sciences University (NFSU), Gandhinagar, Guajrat.
- Panel Speaker in Symposium on "CYBERSECURITY and its Career Prospects" organised by University of Engineering & Management (UEM), Jaipur, Rajasthan on JANUARY 20, 2023.
- Session chair in an international e-Conference on "Intelligent Systems-2021" ( ICIS-2021) on 13th-14th August 2021 organized by The Department of Electronics and Telecommunication Engineering of Dr. D. Y.Patil Institute of Technology, Pimpri, Pune-411018, Maharashtra, India.
- Session chair in International Conference on Optical and Wireless Technology 2018,IRIS, MNIT on 10-11 FEB, 2018.
- Session chair in International Conference 9th IEEE GCC region 9 International conference, 21-23 may 2017, Bahrain.

- Keynote Speaker on “Adaptive Live Video streaming in Peer to peer Network” in International Conference on Recent Developments in Engineering and Technology (ICRDET 2019) during 14th – 15th September, 2019 Rajasthan Technical University, Kota and Anand International College of Engineering, Jaipur .
- Keynote speaker on “Impact of Digitization in Society Transformation: Present & Future” in 4th National Conference , Department of Science and Technology (DST), Rajasthan on 21st & 22nd March 2018.
- Keynote Speaker on “Performance evaluation criterion for Network on Chip”, IEEE Comptelix 2017 (International Conference on Computer, Communications and Electronics 2017), July 1-2, 2017, Manipal University, Jaipur

#### INVITED TALK:

- Expert Talk on ”Generative AI” in Three-day national workshop on Deep Learning and Generative AI” held on Mar-2024 at AMU Aligarh.
- Keynote Talk on ”AI in Medical Healthcare System” in ”Two-Day Seminar On Automation, Robotics, AI And Applications” held on Mar-2024 at AMU, Aligarh.
- Expert Talk on ”IoT in Agriculture” in Three-day program on IoT Applications in Agriculture” organized by RTU Kota and Anand International College of Engineering, Jaipur held on March-2024.
- Keynote talk on ”Recent Advancements in On-Chip Interconnected Networks” in ”International Conference on Advances in Higher Technical Education (AHTE-2024) held on Feb-2024 at UEM, Jaipur.
- Keynote talk on ”Generative AI and blockchain based application in healthcare system” in FDP on ”Recent Trends in AI and ML for smart computing” held on Feb-2024 at Anand International College of Engineering Jaipur in association with RTU Kota.
- Expert Talk on ”Blockchain applications in the field of healthcare” in AICTE ATAL sponsored FDP on ”Integration of IoT and Blockchain to implement Smart Education, Healthcare, and Communication System” held on 11<sup>th</sup> – 16<sup>th</sup> December 2023 at Manipal University, Jaipur.
- Expert talk on ”Generative AI and Its Applications” in First International Symposium on Data Science -2023 held on November 08-9, 2023 at Manipal University, Jaipur, Rajasthan.
- Expert talk on ”Generative AI and its practical uses” in Faculty Development Program (FDP) on Advancements in Generative Artificial Intelligence (AI): Exploring Cutting-edge Techniques and Models sponsored by the Science and Engineering Research Board (SERB) and the Department of Science and Technology (DST) held during September 25-29, 2023 at Amity University Jaipur, Rajasthan.

- Expert talk on "Responsible AI and Its application in GAIT Analysis" in National Seminar on Responsible AI and Sustainable Development held on August 26, 2023 at Aligarh Muslim University, Aligarh.
- Expert talk on "Blockchain and its Applications" in Invited Talk series organised by Department of CSE, JMI held during August, 2023 at Jamia Milia Islamia , New Delhi.
- Expert talk on "Cloud Computing and Security" in FDP on Intelligent Computing and Communications sponsored by DST Govt of India held during April 08-13, 2023 at Banasthali Vidyapeeth, Niwai, Rajasthan.
- Expert talk on "Blockchain and Its Security" in State Level Awareness Workshop on e-Governance Standards and Guidelines held during March 03-04, 2023 at Jaipur.
- Expert Talk on "Cryptographic security, hashing, and Digital signature" in AICTE ISTE one-week online refresher programme on "Digital Safety and Wellbeing: Tools and Technique" at Barmer (Jan-2022)
- Expert Talk on "Cloud Analysis and Security" in AICTE STTP on "Protection Of Big Data Privacy Via Encrypted Cloud Data "at Institute of Engineering & Technology (IET), Alwar 29- 30 July 2021
- Invited Talk on " Opportunistic Network" on 29th May 2021, Department of Computer Science and Engineering at ABESIT Gaziabad
- Expert Talk on "Amortize Cost Analysis of Self Balance Tree" , FDP on "Mathematical and Computational Modeling" at Anand Engg. College Jaipur from 18th – 22nd December 2020
- Expert Talk on "Advanced Concepts in Algorithms" in STTP on "Advanced Concepts in Computer Science & Engineering" Department of CSE, GEC Banswara (Rajasthan), December 14 to 19, 2020
- Expert talk in AICTE STTP on real-time embedded systems and IOT Its Applications 03-04 March 2020 Institute of Engineering & Technology Alwar.
- Expert lecture on " AI and Machine Learning" on 21st February 2020 at International Conference on Prospects of Artificial Intelligence and Robotics (ICPAIR – 2020) on February 21-22, 2020, at College Campus. Jaipur Engineering College Kukas.
- Expert talk on Routing in Mobile Adhoc Networks FDP TEQIP III 20-21 June 2019 Anand Engg. College Jaipur.
- Expert talk on "Network Simulators" in Networking Tools & Technologies (NTAT)" from 04th Nov to 8th Nov 2019 Under TEQIP-III. Engg. College Ajmer.
- Expert talk in FDP "Cloud Computing, Internet of Things (IoT)" on August 30, 2019, at Jaipur Engineering College, Kukas, Jaipur TEQIP-III RTU.

- Expert talk on “High-Speed Networking” delivered on November 14, 2018, at the Global Institute of Technology under RTU(ATU) TEQUIP/III.
- Expert talk on “High-speed Networking fundamentals” November 22, 2018, Manipal University Jaipur.
- Expert talk on Wireless Sensor Networks in Faculty Development Program ‘Advances In Communication Technologies-2018’ February 9th – 14th, 2018 MNIT Jaipur.
- Expert talk on “Computer Networks” in Govt. Engg. College Jhalawar TEQIP 3rd -4th March 2017.

#### **TECHNICAL PROGRAM COMMITTEE (TCP) MEMBER :**

- Organizing Committee member of IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS-2023) to be held on 17–20 December 2023, Jaipur, India.
- Organizing Committee member of 5th International Conference on Communication and Intelligent Systems (ICCIS 2023) Sponsored by Soft Computing Research Society to be held on December 16-17, 2023 at MNIT Jaipur, Rajasthan.
- ICETCE-2021: 4th International Conference on “Emerging Technologies in Computer Engineering: Data Science & Blockchain Technology, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT),Jaipur, India, February 3-4, 2021
- 3rd IEEE Conference on Information & Communication Technology, IIIT Allahabad,Dec 6th - 8 2019.
- International Conference on Emerging Technologies in Computer Engineering (ICETCE-2020),SKIT, Jaipur,7th- 8th February 2020
- International Conference on Artificial Intelligence and Machine Learning Applications,Swami Keshvanand Institute of Technology, Management & Gramothan Jaipur, Rajasthan, India. 5th-6th February, 2021
- Organizing Secretary of 3rd International Conference on Internet of Things and Connected Technologies (ICIoTCT), 2018, Malaviya National Institute of Technology (MNIT), Jaipur, March 26-27, 2018
- Advisory board member of International Conference On Information Technology & Digital Applications ,JECRC Foundation, Jaipur, Rajastha 2018

#### **CONFERENCES/SEMINARS/WORKSHOPS ORGANIZED:**

- International level FDP on Cloud Analysis and Security at MNIT, Jaipur, India from 08-09-2025 to 19-09-2025
- International level FDP on Blockchain and AI in Healthcare at MNIT, JAIPUR, INDIA from 16-06-2025 to 20-06-2025

- International level Conference on IEEE ComSoc ANTS International Conference on Advanced Networks and Telecommunications Systems 2023 at MNIT, Jaipur, India from 17-12-2023 to 20-12-2023
- International level Conference on 5th International Conference on Communication and Intelligent Systems (ICCIS 2023 at Malaviya National Institute of Technology , Jaipur, India from 16-12-2023 to 17-12-2023
- National level Workshop on PROTEUS VSM: 8051, IoT Builder for Arduino, AVR for IoT, and Robotics Simulation at MNIT JAIPUR, Jaipur City, INDIA from 06-05-2022 to 07-05-2022
- International level Conference on 6th International Conference on Soft Computing Theory and Applications SoCTA2021 at IIIT KOTA, Jaipur, India from 17-12-2021 to 19-12-2021
- National level Short Term Course on AICTE ATAL sponsored FDP on Blockchain Technologies & Applications at MNIT Jaipur, Jaipur, India from 06-09-2021 to 10-09-2021
- National level Short Term Course on Python Programming with Industry Perspective at MNIT, Jaipur, India from 02-12-2019 to 06-12-2019
- TEQIP Sponsored 2<sup>nd</sup> National Conference on “Advanced Communication Technologies and Networks”, MNIT Jaipur, June 20-21, 2019
- 3rd International Conference on “Internet of Things and Connected Technologies (IIoTCT), 2018”, Malaviya National Institute of Technology (MNIT) Jaipur, and Center for Global Management, California State University, San Bernardino (CSUSB), USA, March 26-27, 2018
- Intel Sponsored one Day workshop on “Intel Nervana Program”, MNIT Jaipur, Nov 18th 2017
- TEQIP Sponsored Short Training Programme on Real Time Systems (RTS), Department of CSE MNIT Jaipur, Nov. 7-9, 2017
- National Workshop on “Proteus Svm Embedded System Workshop” , M/s Cyber motion, Hyderabad and CACS Technical Society MNIT Jaipur, Oct. 28-29, 2017
- TEQIP Sponsored National Conference on “Advanced Communication Technologies and Networks”, MNIT Jaipur, Oct. 24-25, 2017