

## **DR. MUSHEER AHMAD**

### **ASSOCIATE PROFESSOR**

Department of Computer Engineering,

F/O of Engineering and Technology,

Jamia Millia Islamia, New Delhi-110025, INDIA.

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### **ACADEMIC QUALIFICATIONS:**

- Pursued PhD (*Computer Engineering*) from Jamia Millia Islamia, New Delhi.
- Pursued M.Tech (*Computer Science & Engineering*) in 2008 from ZH College of Engineering & Technology, Aligarh Muslim University, Aligarh.
- Pursued B.Tech (*Computer Engineering*) in 2004 from ZH College of Engineering & Technology, Aligarh Muslim University, Aligarh.
- Pursued XII in 1999 from Senior Secondary School (Boys), Aligarh Muslim University, Aligarh.
- Pursued X in 1997 from S.T.S High School (Minto Circle), Aligarh Muslim University, Aligarh.

### **TEACHING EXPERIENCE:**

Total Teaching Experience: **18** years

- Working as Associate Professor in the *Department of Computer Engineering*, F/O Engineering and Technology, Jamia Millia Islamia, New-Delhi-110025.
- Worked as Lecturer on temporary basis/Guest Faculty (during 2006-2010) in the *Department of Computer Engineering*, ZH College of Engineering and Technology, Aligarh Muslim University, Aligarh.

### **THEORIES TAUGHT:**

- Analysis and Design of Algorithms
- Algorithm Design
- Discrete Mathematics
- Microprocessor Theory and Applications
- Soft Computing

### **CLASSES TAUGHT:**

- M.Tech (Computer Engineering)
- M.Tech (Computer Sc. & Engineering)
- M.Tech (Computational Mathematics)
- B.Tech (Computer Engineering)
- B.E. (Computer Engineering)
- M.Sc (Industrial Maths with Computer Applications)

### AREAS OF RESEARCH INTEREST:

- Chaos-based Cryptography
- Multidisciplinary Cryptography
- Cybersecurity
- Authentication
- Deep Learning
- Optimization

### RESEARCH PUBLICATIONS

Total research papers	:	157
SCOPUS indexed papers	:	151
Web of Science indexed papers	:	124
SCIE indexed papers	:	87
Cumulative Impact Factor	:	~ 300 (as per JCR impact factors)
Citations	:	5296 (as per Google Scholar), 3878 (as per SCOPUS)
<i>h</i> -index	:	42 (Google Scholar), 36 (SCOPUS)

### SELECTED PAPERS IN JOURNALS:

- J.1. Nyangaresi, V. O., **Ahmad, M.**, Maghrabi, L. A., & Althaqafi, T. (2025). Cost-Effective PUF and ECC Based Authentication Protocol for Secure Internet of Drones Communication. *IEEE Internet of Things Journal*, pp-1-13. DOI: 10.1109/JIOT.2025.3576313 [**SCI-E/IF: 8.2**]
- J.2. Lai, Q., Wang, H., Zhao, X. W., & **Ahmad, M.** (2025). Shuffle medical image encryption scheme based on 4D memristive hyperchaotic map. *Nonlinear Dynamics*, 113 (10), 12289-12307. [**SCI-E/IF: 5.2**]
- J.3. Khadem, B., Gholamzadeh, M., **Ahmad, M.**, & Ansari, Z. A. (2025). Robust Image Encryption Scheme Based on 6D Hyper-chaos and DPA-resistant S-box. *Physica Scripta*, vol. 100, 035213. DOI: 10.1088/1402-4896/adadab [**SCI-E/IF: 2.6**]
- J.4. Long, G., Verma, V., Jiang, D., Yang, Y.-G., & **Ahmad, M.** (2024). A LE-controlled 4D non-degenerate hyperchaotic system and STP-CS model based efficient image encryption algorithm. *Physica Scripta*, DOI: 10.1088/1402-4896/ad9d8b [**SCI-E/IF: 2.6**]
- J.5. Ibrahim, M., Venkatesan R, & **Ahmad, M.** (2024). A Hybrid Approach of Substitution and Permutation techniques for Modern Image-Cryptosystem. *Physica Scripta*, vol. 99, DOI: 10.1088/1402-4896/ad91f5 [**SCI-E/IF: 2.6**]
- J.6. Aldosary, A., Tanveer, M., **Ahmad, M.**, Maghrabi, L. A., Ahmed, E. A., Hussain, A., & Abd El-Latif, A. A. (2024). A Secure Authentication Framework for Consumer Mobile Crowdsourcing Networks. *IEEE Transactions on Consumer Electronics*, DOI: 10.1109/TCE.2024.3473930 [**SCI-E/IF: 4.3**]
- J.7. Ahmad, R., Maghrabi, L. A., Khaja, I. A., Maghrabi, L. A., & **Ahmad, M.** (2024). SMOTE-Based Automated PCOS Prediction Using Lightweight Deep Learning Models. *Diagnostics*, 14(19), 2225. [**SCI-E/IF: 3.0**]
- J.8. Tahiri, M. A., Karmouni, H., Sayyouri, M., Qjidaa, H., **Ahmad, M.**, Hammad, M., & Abd El-Latif, A. A. (2024). An improved reversible watermarking scheme using embedding optimization and quaternion moments. *Scientific Reports*, 14(1), 18485. [**SCI-E/IF: 3.8**]
- J.9. Bashir, M.H., **Ahmad, M.**, Rizvi, D.R., & A Abd El-Latif, A. (2024). Efficient CNN Based Disaster Events Classification Using UAV-Aided Images for Emergency Response Application. *Neural Computing and Applications*. DOI: 10.1007/s00521-024-09610-4 [**SCI-E/IF: 6.0**]
- J.10. Tanveer, M., Abd El-Latif, A. A., Khan, A., **Ahmad, M.**, & Ateya, A. A. (2024). LEAF-IIoT: Lightweight and Efficient Authentication Framework for the Industrial Internet of Things. *IEEE Access*, vol. 12, pp. 31771-31787. [**SCI-E/IF: 3.4**]
- J.11. Feng, W., Zhang, J., Chen, Y., Qin, Z., Zhang, Y., **Ahmad, M.**, & Woźniak, M. (2024). Exploiting Robust Quadratic Polynomial Hyperchaotic Map and Pixel Fusion Strategy for Efficient Image Encryption. *Expert Systems with Applications*, 123190. [**SCI-E/IF: 7.5**]

- J.12. Daoui, A., Yamni, M., Altameem, T., **Ahmad, M.**, Hammad, M., Pławiak, P., & Abd El-Latif, A. A. (2023). AuCFSR: Authentication and Color Face Self-Recovery Using Novel 2D Hyperchaotic System and Deep Learning Models. *Sensors*, 23(21), 8957. [SCI-E/IF: 3.4]
- J.13. Zhou, X., Jiang, D., Nkpkop, J. D. D., **Ahmad, M.**, Fossi, J. T., Tsafack, N., & Wu, J. (2023). Dynamics Analysis and Cryptographic Implementation of a Fractional-Order Memristive Cellular Neural Network Model. *Chinese Physics B*. DOI 10.1088/1674-1056/ad03dd [SCI-E/IF: 1.5]
- J.14. Hu, X., Jiang, D., **Ahmad, M.**, Tsafack, N., Zhu, L., & Zheng, M. (2023). Novel 3-D hyperchaotic map with hidden attractor and its application in meaningful image encryption. *Nonlinear Dynamics*, 111, 19487–19512. [SCI-E/IF: 5.2]
- J.15. Shi, Y., Jiang, D., Tsafack, N., **Ahmad, M.**, Zhu, L., & Zheng, M. (2023). Privacy Data Protection Scheme using Memristive Hyperchaos and Multi-Scale Block Compressive Sensing. *Physica Scripta*, vol. 98, 095206. DOI: 10.1088/1402-4896/ace93a [SCI-E/IF: 2.6]
- J.16. Masud, U., Sadiq, M., Masood, S., **Ahmad, M.**, & Abd El-Latif, A. A. (2023). LW-DeepFakeNet: a lightweight time distributed CNN-LSTM network for real-time DeepFake video detection. *Signal, Image and Video Processing*, 1-9. [SCI-E/IF: 2.0]
- J.17. Razaq, A., Alhamzi, G., Abbas, S., **Ahmad, M.**, & Razzaque, A. (2023). Secure communication through reliable S-box design: A proposed approach using coset graphs and matrix operations. *Heliyon*, 9(5), e15902 (2023). [SCI-E/IF: 3.4]
- J.18. Zahid, A. H., Arshad, M. J., **Ahmad, M.**, Soliman, N. F., & El-Shafai, W. (2023). Dynamic S-Box Generation Using Novel Chaotic Map with Nonlinearity Tweaking. *Computers, Materials & Continua*, vol. 75, no.2, pp. 3011–3026, 2023. [SCI-E/IF: 2.0]
- J.19. Gakam Tegue, G. A., Nkpkop, J. D. D., Abdel, M. A., Tsafack, N., **Ahmad, M.**, Signing, F. V., & Tamba, J. G. (2023). A Novel Image Encryption Scheme Combining a Dynamic S-Box Generator and a New Chaotic Oscillator with Hidden Behavior. *Arabian Journal for Science and Engineering*, 1-20. DOI: <https://doi.org/10.1007/s13369-023-07715-x> [SCI-E/IF: 2.6]
- J.20. Zhang, X., Jiang, D., Nkpkop, J.D., Tabekoueng, Z.N., **Ahmad, M.**, Zhu, L., & Tsafack, N. (2023). A Memristive Autapse-Synapse Neural Network: Application to Image Encryption. *Physica Scripta*, vol. 98, 035222. DOI: 10.1088/1402-4896/acbb38 [SCI-E/IF: 2.6]
- J.21. Razaq, A., **Ahmad, M.**, & Abd El-Latif, A. A. (2023). A Novel Algebraic Construction of Strong S-Boxes over Double GF(27) Structures and Image Protection. *Computational and Applied Mathematics*, vol. 43, pp. xx-yy, DOI: 10.1007/s40314-023-02215-y [SCI-E/IF: 2.5]
- J.22. Abdullah, S. M., Abbas, T., Bashir, M. H., Khaja, I. A., **Ahmad, M.**, Soliman, N. F., & El-Shafai, W. (2023). Deep Transfer Learning Based Parkinson's Disease Detection Using Optimized Feature Selection. *IEEE Access*, 11, 3511-3524. [SCI-E/IF: 3.4]
- J.23. Tegue, G. A. G., Nkpkop, J. D. D., Tsafack, N., Abdel, M. A., Kengne, J., **Ahmad, M.**, & Tamba, J. G. (2022). A Novel Image Encryption Scheme Based on Compressive Sensing, Elliptic Curves and A New Jerk Oscillator with Multistability. *Physica Scripta*, 97, 125215. DOI: 10.1088/1402-4896/aca0cb [SCI-E/IF: 2.6]
- J.24. Haque, A., Abdulhussein, T. A., **Ahmad, M.**, Falah, M. W., & Abd El-Latif, A. A. (2022). A Strong Hybrid S-Box Scheme Based on Chaos, 2D Cellular Automata and Algebraic Structure. *IEEE Access*, 10, 116167-116181. [SCI-E/IF: 3.4]
- J.25. Ahmad, A., Ahmad, T., **Ahmad, M.**, Kumar, C., Alenezi, F., & Nour, M. (2022). A Complex Network-Based Approach for Security and Governance in the Smart Green City. *Expert Systems with Applications*, 119094. [SCI-E/IF: 7.5]
- J.26. Tanveer, M., **Ahmad, M.**, Khalifa, H. S., Alkhayyat, A., & Abd El-Latif, A. A. (2022). A New Anonymous Authentication Framework for Secure Smart Grids Applications. *Journal of Information Security and Applications*, 71, 103336. [SCI-E/IF: 3.8]
- J.27. Ahmad, A., Ahmad, T., **Ahmad, M.**, Muthanna A., Gupta, B., & Abd El-Latif, A. A. (2022). Determination of Critical Edges in Air Route Network Using Modified Weighted Sum Method and Grey Relational Analysis. *IEEE Transactions on Intelligent Transportation Systems*, pp. 1-12. DOI: 10.1109/TITS.2022.3200140. [SCI-E/IF: 7.9]
- J.28. Tanveer, M., Khan, A., **Ahmad, M.**, Nguyen, T. N., & Abd El-Latif, A. A. (2022). Resource-Efficient Authenticated Data Sharing Mechanism for Smart Wearable Systems. *IEEE Transactions on Network Science and Engineering*, pp. 1-12, DOI: 10.1109/TNSE.2022.3203927. [SCI-E/IF: 6.7]
- J.29. Daoui, A., Yamni, M., Karmouni, H., Sayyouri, M., Qjidaa, H., **Ahmad, M.**, & Abd El-Latif, A. A. (2022). Biomedical Multimedia Encryption by Fractional-Order Meixner Polynomials Map and Quaternion Fractional-Order Meixner Moments. *IEEE Access*, 9, pp. 145459-145470. [SCI-E/IF: 3.4]

- J.30. Daoui, A., Yamni, M., Karmouni, H., Sayyouri, M., Qjidaa, H., **Ahmad, M.**, & Abd El-Latif, A. A. (2022). Color Stereo Image Encryption and Local Zero-watermarking Schemes Using Octonion Hahn Moments and Modified Henon Map. *Journal of King Saud University-Computer and Information Sciences*. [SCI-E/IF: 5.2]
- J.31. Nyangaresi, V. O., **Ahmad, M.**, Alkhayyat, A., & Feng, W. (2022). Artificial Neural Network and Symmetric Key Cryptography Based Verification Protocol for 5G Enabled Internet of Things. *Expert Systems*, e13126. [SCI-E/IF: 3.0]
- J.32. Zhu, L., Jiang, D., Ni, J., Wang, X., Rong, X., & **Ahmad, M.**, (2022). A Visually Secure Image Encryption Scheme Using Adaptive-Thresholding Sparsification Compression Sensing Model and Newly-Designed Memristive Chaotic Map. *Information Sciences*, 607, 1001-1022. [SCI-E/IF: 8.1]
- J.33. Kumar, V., Mahmoud, M. S., Alkhayyat, A., Srinivas, J., **Ahmad, M.**, & Kumari, A. (2022). RAPCHI: Robust Authentication Protocol for IoMT-Based Cloud-Healthcare Infrastructure. *The Journal of Supercomputing*, 1-30. [SCI-E/IF: 2.5]
- J.34. Masood, S., Khan, R., Abd El-Latif, A. A., **Ahmad, M.** (2022). An FCN-LSTM Model for Neurological Status Detection from Non-Invasive Multivariate Sensor Data. *Neural Computing and Applications*, 36(18), 10599-10612. DOI: 10.1007/s00521-022-07117-4. [SCI-E/IF: 6.0]
- J.35. Tanveer, M., Khan, A., Nguyen, T., **Ahmad, M.**, & Abd El-Latif, A. A. (2022). Towards A Secure and Computational Framework for Internet of Drones Enabled Aerial Computing. *IEEE Transactions on Network Science and Engineering*, pp. 1-13. DOI: 10.1109/TNSE.2022.3151843. [SCI-E/IF: 6.7]
- J.36. Alkhayyat, A., **Ahmad, M.**, Tsafack, N., Tanveer, M., Jiang, D., & Abd El-Latif, A. A. (2022). A Novel 4D Hyperchaotic System Assisted Josephus Permutation for Secure Substitution-Box Generation. *Journal of Signal Processing Systems*, 1-14. DOI: 10.1007/s11265-022-01744-9. [SCI-E/IF: 1.6]
- J.37. **Ahmad, M.**, Agarwal, S., Alkhayyat, A., Alhudaif, A., Alenezi, F., Zahid, A. H., & Aljehane, N. O. (2022). An Image Encryption Algorithm Based on New Generalized Fusion Fractal Structure. *Information Sciences*, 592, 1-20. [SCI-E/IF: 8.1]
- J.38. Zhu, L., Jiang, D., Ni, J., Wang, X., Rong, X., **Ahmad, M.**, & Chen, Y. (2022). A Stable Meaningful Image Encryption Scheme Using the Newly-Designed 2D Discrete Fractional-Order Chaotic Map and Bayesian Compressive Sensing. *Signal Processing*, 195, 108489. [SCI-E/IF: 3.4]
- J.39. Ahmed, M., Masood, S., **Ahmad, M.**, & Abd El-Latif, A. A. (2021). Intelligent Driver Drowsiness Detection for Traffic Safety Based on Multi CNN Deep Model and Facial Subsampling. *IEEE Transactions on Intelligent Transportation Systems*, pp. 1-10. DOI: 10.1109/TITS.2021.3134222. [SCI-E/IF: 7.9]
- J.40. Razaq, A., Akhter, S., Yousaf, A., Shuaib, U., **Ahmad, M.**, (2021). A Group Theoretic Construction of Highly Nonlinear Substitution Box and Its Applications in Image Encryption. *Multimedia Tools Applications*, DOI: 10.1007/s11042-021-11635-z. [SCI-E/IF: 3.0]
- J.41. Feng, W., Qin, Z., Zhang, J., & **Ahmad, M.** (2021). Cryptanalysis and Improvement of the Image Encryption Scheme Based on Feistel Network and Dynamic DNA Encoding, *IEEE Access*, 9, 145459-145470. [SCI-E/IF: 3.4]
- J.42. Majid, S., Alenezi, F., Masood, S., **Ahmad, M.**, Gündüz, E. S., & Polat, K. (2021). Attention Based CNN model for Fire Detection and Localization in Real-World Images. *Expert Systems with Applications*, 189, 116114. [SCI-E/IF: 7.5]
- J.43. Khan, A. A., Kumar, V., Ahmad, M., Gupta, B. B., **Ahmad, M.**, & Abd El-Latif, A. A. (2021). A Secure and Efficient Key Agreement Framework for Critical Energy Infrastructure Using Mobile Device. *Telecommunication Systems*, 78, 539-557. [SCI-E/IF: 1.7]
- J.44. Razaq, A., **Ahmad, M.**, Yousaf, A., Alawida, M., Ullah, A., & Shuaib, U. (2021). A Group Theoretic Construction of Large Number of AES-Like Substitution-Boxes. *Wireless Personal Communications*, 1-24. [SCI-E/IF: 1.9]
- J.45. Razaq, A., **Ahmad, M.**, Yousaf, M. A., & Masood, S. (2021). A Novel Finite Rings Based Algebraic Scheme of Evolving Secure S-Boxes for Images Encryption. *Multimedia Tools and Applications*, 80(13), 20191-20215. [SCI-E/IF: 3.0]
- J.46. Alhadawi, H. S., Majid, M. A., Lambić, D., & **Ahmad, M.** (2021). A Novel Method of S-Box Design Based on Discrete Chaotic Maps and Cuckoo Search Algorithm. *Multimedia Tools and Applications*, 80(5), 7333-7350. [SCI-E/IF: 3.0]
- J.47. Alawida, M., Samsudin, A., Alajarmeh, N., Teh, J. S., & **Ahmad, M.** (2021). A Novel Hash Function Based on a Chaotic Sponge and DNA Sequence. *IEEE Access*, 9, 17882-17897. [SCI-E/IF: 3.4]
- J.48. **Ahmad, M.**, Doja, M. N., & Beg, M. M. S. (2021). Security Analysis and Enhancements of an Image Cryptosystem Based on Hyperchaotic System. *Journal of King Saud University-Computer and Information Sciences*, 33(1), 77-85. [SCI-E/IF: 5.2].



- J.49. Alhadawi, H. S., Lambić, D., Zolkipli, M. F., & **Ahmad, M.** (2020). Globalized Firefly Algorithm and Chaos for Designing Substitution-Box. *Journal of Information Security and Applications*, 55, 102671. [SCI-E/IF: 3.8]
- J.50. Freyre-Echevarría, A., Alanezi, A., Martínez-Díaz, I., **Ahmad, M.**, Abd El-Latif, A. A. & Razaq, A. (2020). An External Parameter Independent Novel Cost Function for Evolving Bijective Substitution-Boxes. *Symmetry*, 12(11), 1896. [SCI-E/IF: 2.2]
- J.51. Masood, S., Rai, A., Aggarwal, A., Doja, M. N., & **Ahmad, M.** (2020). Detecting Distraction of Drivers Using Convolutional Neural Network. *Pattern Recognition Letters*, 139, 79-85. [SCI-E/IF: 3.9]
- J.52. Alawida, M., Teh, J. S., Oyinloye, D. P., **Ahmad, M.**, & Alkhawaldeh, R. S. (2020). A New Hash Function Based on Chaotic Maps and Deterministic Finite State Automata. *IEEE Access*, 8, 113163-113174. [SCI-E/IF: 3.4]
- J.53. Hussam A. Ahmed, Mohamad Fadli Zolkipli, **Musheer Ahmad**, (2019) "A Novel Efficient Substitution-Box Design Based on Firefly Algorithm and Discrete Chaotic Map", *Neural Computing and Applications*, vol. 31, 7201-7219. [SCI-E/IF: 6.0]
- J.54. Dragan Lambić, Aleksandar Janković, **Musheer Ahmad**, (2018). "Security Analysis of the Efficient Chaos Pseudo-random Number Generator Applied to Video Encryption", *Journal of Electronic Testing: Theory and Applications*, [SCI-E/IF: 1.1]
- J.55. Eesa Al Solami, **Musheer Ahmad**, Christos Volos, Mohammad Najam Doja, Mirza Mohd Sufyan Beg, "A New Hyperchaotic System-Based Design for Efficient Bijective Substitution-Boxes", *Entropy*, vol. 20, no. 7, July 2018 [SCI-E/IF: 2.1]
- J.56. **Musheer Ahmad**, Eesa Al Solami, Xingyuan Wang, M N Doja, M M Sufyan Beg, Amer Awad Alzaidi, "Cryptanalysis of an Image Encryption Algorithm Based on Combined Chaos for BAN System and its Improved Scheme Using SHA-512 and Hyperchaos", *Symmetry*, vol. 10, no. 7, 266, July 2018 [SCI-E/IF: 2.2]
- J.57. **Musheer Ahmad**, M N Doja, M M Sufyan Beg, "ABC Optimization Based Construction of Strong Substitution-Box", *Wireless Personal Communications*, vol. 101, no. 3, pp. 1715-1729, August 2018 [SCI-E/IF: 1.9]
- J.58. **Musheer Ahmad**, Mohammad Zaiyan Alam, Subia Ansari, Dragan Lambić, Hamed D. AlSharari, "Cryptanalysis of an Image Encryption Algorithm Based on PWLCM And Inertial Delayed Neural Network", *Journal of Intelligent & Fuzzy Systems*, vol. 34, no. 3, pp. 1323-1332, Mar 2018 [SCI-E/IF: 1.7]

#### **PAPERS IN INTERNATIONAL CONFERENCES:**

- C.1. Ansari, N., **Ahmad, M.** Khaja, I. A., & Siddiqui, M. F. I. (2024, November). Optimized Feature Selection Framework for Efficient Heart Sound Classification. In 2024 3rd Edition of IEEE Delhi Section Flagship Conference (DELCON) (pp. 1-6). IEEE. [SCOPUS].
- C.2. Khaja, I.A., **Ahmad, M.** (2023, December). Similarity Learning and Genetic Algorithm Based Novel S-Box Optimization. *Proceedings of Eighth International Symposium on Intelligent Informatics (ISI 2023)*, Pal, S.K., Thampi, S.M., Abraham, A. (eds) Intelligent Informatics. Smart Innovation, Systems and Technologies, vol 389. Springer. [SCOPUS].
- C.3. Ahmad, F., Waseem, Z., **Ahmad, M.**, & Ansari, M. Z. (2023, May). Forest Fire Prediction Using Machine Learning Techniques. In 2023 International Conference on Recent Advances in Electrical, Electronics & Digital Healthcare Technologies (REEDCON) (pp. 705-708). IEEE. [SCOPUS].
- C.4. Ahmad, F., Tarik, M., **Ahmad, M.**, & Ansari, M. Z. (2023, May). Weather Forecasting Using Deep Learning Algorithms. In 2023 International Conference on Recent Advances in Electrical, Electronics & Digital Healthcare Technologies (REEDCON) (pp. 498-502). IEEE. [SCOPUS].
- C.5. Saba Manzoor, **Musheer Ahmad**, Hussam S. Alhadawi (2023). Intrusion Detection System Using Ensemble Machine Learning in Cloud Environment. *The 2nd International Conference on Emerging Technologies and Intelligent Systems (ICETIS 2022)*, 2-3 September 2022. Lecture Notes in Networks and Systems, vol. 573, pp. 513-522, Springer International Publishing. [SCOPUS].
- C.6. Arora, S., Bindra, S., **Ahmad, M.**, & Ahmad, T. (2023). Decomposition Makes Better Rain Removal: An Enhanced Attention-Guided Image De-raining Using Deconvolutions Network. In Proceedings of Second International Conference in Mechanical and Energy Technology (pp. 323-331). Springer, Singapore. [SCOPUS].
- C.7. Adeen, Z., **Ahmad, M.**, Neggaz, N., & Alkhayyat, A. (2022). MHGSO: A Modified Hunger Game Search Optimizer Using Opposition-Based Learning for Feature Selection. *Proceedings of Trends in Electronics and Health Informatics* (pp. 41-52), 16-17 December 2021. [SCOPUS].
- C.8. Arora, S., Bindra, S., **Ahmad, M.**, & Ahmad, T. (2021). An Analysis of Depression Detection Model Applying Data Mining Approaches Using Social Network Data. *Fourth International Conference on Electrical, Computer and Communication Technologies (ICECCT-2021)*, 15-17 September 2021, pp. 1-7, IEEE. [SCOPUS].

- C.9. Hamid, M., [Ahmad, M.](#), Alhadawi, H. S., & Chandhok, S. (2021). Cryptographic Pseudo-Random Bit Generator Based on New Combination Discrete Chaotic Systems. *International Conference on Emerging Technologies and Intelligent Systems (ICETIS-2021)*, 25-26 June 2021, Lecture Notes in Networks and Systems, vol. 322, pp. 921-930, Springer International Publishing. [SCOPUS].
- C.10. [Musheer Ahmad](#), M N Doja, M M Sufyan Beg, "A New Chaotic Map Based Secure and Efficient Pseudo-Random Bit Sequence Generation", *Sixth International Symposium on Security in Computing and Communications (SSCC-2018)*, *Communications in Computer and Information Science*, Springer-Verlag Berlin, vol. 969, pp. 543-553, 19-22 September 2018, Bangalore. [SCOPUS].
- C.11. [Musheer Ahmad](#), Aisha Aijaz, Subia Ansari, Mohammad Moazzam Siddiqui, Sarfaraz Masood, "Cryptanalysis of Image Cryptosystem Using Synchronized 4D Lorenz Stenflo Hyperchaotic Systems", *International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA-2017)*, *Advances in Intelligent Systems and Computing*, Springer, vol. 701, pp. 367-376, 14-15 October 2017, Bhubaneswar. [SCOPUS].
- C.12. Sarfaraz Masood, Adhyan Srivastava, Harish Chandra Thuwal, [Musheer Ahmad](#), "Real Time Sign Language Gesture (Word) Recognition from Video Sequences Using CNN and RNN", *International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA-2017)*, *Advances in Intelligent Systems and Computing*, Springer, vol. 695, pp. 623-632, 14-15 October 2017, Bhubaneswar. [SCOPUS].
- C.13. [Musheer Ahmad](#), Farooq Seeru, Ahmed Masihuddin Siddiqi, Sarfaraz Masood, "Dynamic 9×9 Substitution-Boxes Using Chaos Based Heuristic Search", *International Conference on Soft Computing: Theories and Applications (SoCTA-2016)*, *Advances in Intelligent Systems and Computing*, Springer, vol. 583, pp. 839-851, 28-30 December 2016, Jaipur. [SCOPUS].
- C.14. [Musheer Ahmad](#), M Alauddin, Hamed D. AlSharari, "Heuristic Approach for Nonlinear  $n \times n$  ( $3 \leq n \leq 7$ ) Substitution-Boxes" *3<sup>rd</sup> International Conference on Computer & Communication Technologies (IC3T-2016)*, *Advances in Intelligent Systems and Computing*, Springer, vol. 542, pp. 347-355, 5-6 November 2016, Vijayawada. [SCOPUS].
- C.15. Sarfaraz Masood, Shubham Gupta, Abdul Wajid, Suhani Gupta, [Musheer Ahmad](#), "Prediction of Human Ethnicity from Facial Images Using Neural Networks" *3<sup>rd</sup> International Conference on Computer & Communication Technologies (IC3T-2016)*, *Advances in Intelligent Systems and Computing*, Springer, vol. 542, pp. 217-226, 5-6 November 2016, Vijayawada. [SCOPUS].
- C.16. Sahil Wadhwa, [Musheer Ahmad](#), Harsh Vijay, "Chaotic Hash Function Based Plain-Image Dependent Block Ciphering Technique", *International Conference on Advances in Computing, Communications and Informatics (ICACCI-2016)*, pp. 633-637, 21-24 September 2016, Jaipur. [SCOPUS].
- C.17. [Musheer Ahmad](#), Hamed D. AlSharari, "On the Security of Chaos Based Watermarking Scheme for Secure Communication", *International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA-2016)*, *Advances in Intelligent Systems and Computing*, Springer, vol. 515, pp. 313-321, 16-17 September 2016, Bhubaneswar. [SCOPUS].
- C.18. [Musheer Ahmad](#), Farooq Seeru, "Chaotic Key Dependent Generation of APA-like Strong Nonlinear Components", *Sixth International Conference on Advanced Computing & Communication Technologies (ACCT-2016)*, pp. 83-87, 3-4 September 2016, Rohtak. ISBN: 978-981-11-0783-2.
- C.19. Manish Malik, [Musheer Ahmad](#), "Performance Analysis of Cryptographic 8×8 Substitution-Boxes, *Sixth International Conference on Advanced Computing & Communication Technologies (ACCT-2016)*, pp. 200-205, 3-4 September 2016, Rohtak. ISBN: 978-981-11-0783-2.
- C.20. Sushmita Singh, [Musheer Ahmad](#), Dhruv Malik, "Breaking an Image Encryption Scheme Based on Chaotic Synchronization Phenomenon", *Ninth International Conference on Contemporary Computing (IC3-2016)*, pp. 146-149, 11-13 August 2016, Noida. [SCOPUS].
- C.21. [Musheer Ahmad](#), Nikhil Mittal, Prerit Garg, Manaf Mahtab Khan, "Efficient Cryptographic Substitution Box Design Using Travelling Salesman Problem and Chaos", *International Conference on Recent Trends in Engineering and Material Science (ICEMS-2016)*, *Perspectives in Science*, vol. 8, pp. 465-468, 17-19 March 2016.
- C.22. [Musheer Ahmad](#), Manish Malik, "Design of Chaotic Neural Network Based Method for Cryptographic Substitution Box", *International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT-2016)*, pp. 864-868, 3-5 March 2016, Chennai. [SCOPUS].
- C.23. [Musheer Ahmad](#), Faiyaz Ahmad and Syed Ashar Javed, "Cryptanalysis of an Asymmetric Image Cryptosystem Based on Synchronized Unified Chaotic System and CNN", *First International Conference on Intelligent Computing and Communication (ICIC2-2016)*, *Advances in Intelligent Systems and Computing*, Springer, vol. 458, pp. 559-567, 18-19 February 2016, West Bengal. [SCOPUS].

- C.24. Pankaj Kumar Sharma, Aditya Kumar and [Musheer Ahmad](#), "Cryptanalysis of Image Encryption Algorithm Based on Pixel Shuffling and Bits Shuffling", *International Congress on Information and Communication Technology*, (ICICT-2015), *Advances in Intelligent Systems and Computing*, Springer, vol. 439, pp. 281-289, 9-10 October 2015, Udaipur, [SCOPUS].
- C.25. [Musheer Ahmad](#), Faiyaz Ahmad, Zeba Nasim, Zohra Bano, Shadab Zafar, "Chaos Based Strong Substitution Box Design", *Eight International Conference on Contemporary Computing* (IC3-2015), pp. 97-100, 20-22 August 2015, Noida. [SCOPUS].
- C.26. Shruti Khurana and [Musheer Ahmad](#), "Designing Chaotic Chirikov Map Based Hash Function", *International Conference on Innovations in Computer Science & Engineering* (ICICSE-2015), *Advances in Intelligent Systems and Computing*, Springer, vol. 413, pp. 267-274, 7-8 August 2015, Telangana. [SCOPUS].
- C.27. [Musheer Ahmad](#), Danish Raza Rizvi and Zishan Ahmad, "PWLCM Based Random Search for Strong Substitution Box Design", *Second International Conference on Computer & Communication Technologies* (IC3T-2015), *Advances in Intelligent Systems and Computing*, Springer, vol. 379, pp. 471-478, 24-26 July 2015, Hyderabad. [SCOPUS].
- C.28. Akshay Chopra, [Musheer Ahmad](#), Manish Malik, "An Enhanced Modulo-based Image Encryption Using Chaotic and Fractal Keys", *International Conference on Advances in Computer Engineering and Applications* (ICACEA-2015), pp. 501-506, 19-20 March 2015, Ghaziabad, UP. [SCOPUS].
- C.29. Zeba Nasim, Zohra Bano, [Musheer Ahmad](#), "Analysis of Random Permutations Generation Schemes for Security Applications", *International Conference on Advances in Computer Engineering and Applications* (ICACEA-2015), pp. 337-341, 19-20 March 2015, Ghaziabad, UP. [SCOPUS].
- C.30. Shahzad Alam, Amir Jamil, Ankur Saldhi, [Musheer Ahmad](#), "Digital Image Authentication and Encryption using Digital Signature", *International Conference On Advances in Computer Engineering and Applications* (ICACEA-2015), pp. 332-336, 19-20 March 2015, Ghaziabad, UP. [SCOPUS].
- C.31. [Musheer Ahmad](#), and Bashir Alam, "A Novel Biometric Fingerprint Template Based Method for Stream Cipher Design" *Second International Conference on Information Systems Design and Intelligent Applications* (INDIA-2015), *Information Systems Design and Intelligent Applications, Advances in Intelligent Systems and Computing*, Springer, vol. 340, pp. 419-427, 8-9 January 2015, West Bengal. [SCOPUS].
- C.32. [Musheer Ahmad](#), Imran Raza Khan and Shahzad Alam, "Cryptanalysis of Image Encryption Based on Fractional-order Lorenz-like Chaotic Systems" *International Conference on Emerging ICT for Bridging Future* (CSI-2014), *Emerging ICT for Bridging the Future, Advances in Intelligent Systems and Computing*, Springer, vol. 338, pp. 381-388, 13-14 December 2014, Hyderabad. [SCOPUS].
- C.33. [Musheer Ahmad](#), Akshay Chopra, Prakhar Jain, and Shahzad Alam, "A Chaotic Substitution Based Image Encryption Using APA-transformation" *International Conference on Frontiers of Intelligent Computing: Theory and Applications* (FICTA-2014), *Advances in Intelligent Systems and Computing*, Springer, vol. 328, pp. 75-83, 14-15 November 2014, Bhubaneswar. [SCOPUS].
- C.34. [Musheer Ahmad](#), and Faiyaz Ahmad, "Cryptanalysis of Image Encryption Based on Permutation-Substitution Using Chaotic Map and Latin Square Image Cipher" *International Conference on Frontiers of Intelligent Computing: Theory and Applications* (FICTA-2014), *Advances in Intelligent Systems and Computing*, Springer, vol. 327, pp. 481-488, 14-15 November 2014, Bhubaneswar. [SCOPUS].
- C.35. Pankaj Kumar Sharma, [Musheer Ahmad](#), and Parvez Mahmood Khan, "Cryptanalysis of an Image Encryption Algorithm Based on Pixel Shuffling Scheme and Chaotic S-box Transformation", *Second International Symposium on Security in Computing and Communications* (SSCC-2014), *Communications in Computer and Information Science*, Springer-Verlag Berlin, vol. 467, pp. 173-181, 24-27 September 2014, Noida. [SCOPUS].
- C.36. Swaleha Saeed, M Sarosh Umar, M Athar Ali, [Musheer Ahmad](#), "A Gray-Scale Image Encryption Using Fisher-Yates Chaotic Shuffling in Wavelet Domain", *2014 IEEE Recent Advances and Innovations in Engineering* (ICRAIE-2014), pp. 1-5, 9-11 May 2014, Jaipur. [SCOPUS].
- C.37. Shahzad Alam, Vipin Kumar, Waseem A Siddiqui, [Musheer Ahmad](#), "Key-Dependent Image Steganography Using Edge Detection", *International Conference on Advanced Computing & Communication Technologies* (ACCT-2014), pp. 85-88, 8-9 February 2014, Rohtak. [SCOPUS].
- C.38. Prateek Singla, Payal Sachdeva and [Musheer Ahmad](#), "A Chaotic Neural Network Based Cryptographic Pseudo-Random Sequence Design", *International Conference on Advanced Computing & Communication Technologies* (ACCT-2014), pp. 301-306, 8-9 February 2014, Rohtak. [SCOPUS].
- C.39. [Musheer Ahmad](#), Shahzad Alam, "A Novel Approach for Efficient S-Box Design Using Multiple High-Dimensional Chaos", *International Conference on Advanced Computing & Communication Technologies* (ACCT-2014), pp. 95-99, 8-9 February 2014, Rohtak. [SCOPUS].



- C.40. [Musheer Ahmad](#), Parvez Mahmood Khan and M Zeeshan Ansari, "A Simple and Efficient Key-Dependent S-Box Design Using Fisher-Yates Shuffle Technique", *International Conference on Security in Networks and Distributed Systems (SNDS-2014)*, *Recent Trends in Computer Networks and Distributed Systems Security, Communications in Computer and Information Science*, Springer-Verlag Berlin, vol. 420, pp. 540-550, 13-14 March 2014, Kerala. [SCOPUS].
- C.41. [Musheer Ahmad](#), Hammad Haleem and Parvez Mahmood Khan, "A New Chaotic Substitution Box Design for Block Ciphers", *International Conference on Signal Processing and Integrated Networks (SPIN-2014)*, pp. 255-258, 20-21 February 2014, Noida. [SCOPUS].
- C.42. [Musheer Ahmad](#), Sonia Gupta and A K Mohapatra, "A Bio-Chaotic Block Cryptosystem for Privacy Protection of Multimedia Data", *International Conference on Frontiers of Intelligent Computing: Theory and applications (FICTA-2013)*, *Advances in Intelligent Systems and Computing*, Springer Switzerland, vol. 247, pp. 527-534, 14-16 November 2013, Bhubaneswar. [SCOPUS].
- C.43. [Musheer Ahmad](#), Hitesh Chugh, Avish Goel and Prateek Singla, "A Chaos Based Method for Efficient Cryptographic S-Box Design", *International Symposium on Security in Computing and Communications (SSCC-2013)*, *Security in Computing and Communications, Communications in Computer and Information Science*, Springer-Verlag Berlin, vol. 377, pp. 130-137, 22-24 August 2013, Mysore. [SCOPUS].
- C.44. [Musheer Ahmad](#), Bashir Alam, Arpit Jain, Vipul Khare, "A Novel Octuple Images Encryption Algorithm Using Chaos in Wavelet Domain", *Fourth International Conference on Networks & Communications (NETCOM-2012)*, *Computer Networks & Communications (NetCom)*, *Lecture Notes in Electrical Engineering*, Springer New York, vol. 131, pp. 509-518, 22-24 December 2012, Chennai. [SCOPUS].
- C.45. Arpit Jain, [Musheer Ahmad](#) and Vipul Khare, "A Ridgelet Based Symmetric Multiple Image Encryption in Wavelet Domain using Chaotic Key Image", *International Conference on Eco-friendly Computing and Communication Systems (ICECCS-2012)*, *Eco-friendly Computing and Communication Systems, Communications in Computer and Information Science*, Springer-Verlag Berlin, vol. 305, pp. 135-144, 9-11 August 2012, Cochin. [SCOPUS].
- C.46. [Musheer Ahmad](#), Bashir Alam and Omar Farooq, "Chaotic Masking of Voice Bitstream using Mixed Sequences for Authorized Listening", *The Second International Conference on Computer Science and Information Technology (CCSIT-2012)*, *Advances in Computer Science and Information Technology: Computer Science and Engineering, Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, Springer, vol. 85, Part II, pp. 604-611, 2-4 January 2012, Bangalore. [SCOPUS].
- C.47. [Musheer Ahmad](#), Tanvir Ahmad and Chirag Gupta, "Multiple 3D Chaotic Systems Based Approach for Visual Multimedia Content Protection", *4<sup>th</sup> International Conference on Recent Trends in Computing, Communication & Information Technologies (ObCom-2011)*, *Global Trends in Information Systems and Software Applications, Communications in Computer and Information Science*, Springer-Verlag Berlin, vol. 270, pp. 37-46, 9-11 December 2011, Vellore. [SCOPUS].
- C.48. [Musheer Ahmad](#) and Omar Farooq, "Chaos Based PN Sequence Generator for Cryptographic Applications", *International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT-2011)*, pp. 83-86, 17-19 December 2011, Aligarh. [SCOPUS].
- C.49. [Musheer Ahmad](#), M. Ehtashamoul Haque and Omar Farooq, "A Noise Resilient Scrambling Scheme for Noisy Transmission Channel", *International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT-2011)*, pp. 91-94, 17-19 December 2011, Aligarh. [SCOPUS].
- C.50. [Musheer Ahmad](#), Shahab Saquib Sohail, Omar Farooq, Anoop L Vyas, Sekharjit Datta and David Mulvaney, "Chaos-based Encryption of Biomedical EEG Signals using Random Quantization Technique", *4<sup>th</sup> International Conference on BioMedical Engineering and Informatics (BMEI-2011)*, pp. 1471-1475, 15-17 October 2011, Shanghai, China. [SCOPUS].
- C.51. [Musheer Ahmad](#), "Cryptanalysis of Chaos-based Secure Satellite Imagery Cryptosystem", *Fourth International Conference on Contemporary Computing (IC3-2011)*, *Contemporary Computing, Communications in Computer and Information Science*, Springer-Verlag Berlin, vol. 169, pp. 81-91, Noida, 8-10 August 2011. [SCOPUS].
- C.52. [Musheer Ahmad](#) and Omar Farooq, "Secure Satellite Image Transmission Scheme Using Chaos and Discrete Wavelet Transform", *International Conference on High Performance Architecture and Grid Computing (HPAGC-2011)*, *High Performance Architecture and Grid Computing, Communications in Computer and Information Science*, Springer-Verlag Berlin, vol. 168, pp. 257-264, Punjab, 19-20 July 2011. [SCOPUS].
- C.53. [Musheer Ahmad](#) and Izharuddin, "Randomness Evaluation of Stream Cipher for Secure Mobile Communication", *1<sup>st</sup> International Conference on Parallel, Distributed and Grid Computing (PDGC-2010)*, pp. 165-168, Solan, 28-30 October 2010. [SCOPUS].



- C.54. [Musheer Ahmad](#) and Omar Farooq, "A Multi-Level Blocks Scrambling Based Chaotic Image Cipher", *Third International Conference on Contemporary Computing (IC3-2010)*, *Contemporary Computing, Communications in Computer and Information Science*, Springer-Verlag Berlin, vol. 94, part 1, pp. 171-182, 9-11 August 2010, Noida. [SCOPUS].
- C.55. [Musheer Ahmad](#) and Izharuddin, "Enhanced A5/1 Cipher with Improved Linear Complexity", *International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT-2009)*, pp. 266-268, Aligarh, 14 -16 March 2009. [SCOPUS].
- C.56. [Musheer Ahmad](#), Chanki Gupta and Ankit Varshney, "Digital Image Encryption Based on Chaotic Map for Secure Transmission", *International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT-2009)*, pp. 289-292, Aligarh, 14-16 March 2009. [SCOPUS].
- C.57. [Musheer Ahmad](#) and Izharuddin, "Security Enhancements in GSM Cellular Standard", *Fourth International Conference on Wireless Communication and Sensor Networks (WCSN-2008)*, pp. 191-194, Allahabad, 26-29 December 2008. [SCOPUS].

#### **SERVING AS ASSOCIATE EDITOR/EDITORIAL BOARD MEMBER:**

1. Editorial Board Member of ***Scientific Reports***, Nature, Springer [[SCIE- indexed](#)]
2. Editorial Board Member of ***Discover Computing***, Springer [[SCIE- indexed](#)]
3. Associate Editor of ***International Journal of Information Security and Privacy (IJISP)***, IGI (*IGI Global Publication*) [[ESCI-SCOPUS indexed](#)]
4. Associate Editor of ***International Journal of Artificial Intelligence in Scientific Disciplines (IJAISD)***, IGI (*IGI Global Publication*)

#### **AWARDS/ACHIEVEMENTS/INTERNATIONAL RECOGNITION:**

1. Received *Editorial Contribution Award 2025* for effectively handling manuscripts as Editorial Board member of *Scientific Reports* journal from Springer Nature.
2. Recently received *FET Research Publication Award 2024* from Honorable Vice Chancellor of JMI Prof. Mazhar Asif, Honorable Registrar Prof. Md. Mehtab Alam Rizvi, and Dean of FET-JMI Prof. Mini Shaji Thomas on 5<sup>th</sup> November, 2024.
3. Received *Jamia Achievers Award* from Honorable Vice Chancellor of JMI Prof. Najma Akhtar, Ms Sharmila Tagore (Actress), & Dr Shiv Kumar Sarin on 29<sup>th</sup> October 2023.
4. Included among World's Top 2% Researchers for the year 2024 in the list curated by Stanford University, USA and Elsevier B.V. (*in the category of career-long*).
5. Received appreciation from Dean of FET-JMI Prof. Mini Shaji Thomas for being listed among World's Top 2% Researchers for the year 2022 list curated by Stanford University, USA and Elsevier B.V.
6. Included consecutively three times among World's Top 2% Researchers for the year 2024, 2023, and 2022 in the lists curated by Stanford University, USA and Elsevier B.V. (*in the category of single year*).
7. Received few Best papers awards for papers published in International Conferences.
8. Received Prize under Best Papers Award category for research paper in a Conference.
9. Received Prize for gaining sixth position in Class X Examination 1997.

#### **JOURNAL SPECIAL ISSUE ORGANIZED (GUEST EDITOR):**

1. Guest Editor of the Collection on "*Post-quantum cybersecurity and cryptography*" in ***Scientific Reports***, Springer ISSN: 2024-3222 (*Springer Nature Publication*) [[SCIE indexed](#)] (*submissions open till 28<sup>th</sup> February, 2026*)

2. Special Issue on “*Securing Critical Infrastructure in Next-Generation Networks: AI, Machine Learning and Cryptographic Approaches*”, **Discover Computing**, vol. x, no. y, ISSN: 2948-2992, Springer (*Springer Publication*) [*SCIE- indexed*](*submissions open till 30<sup>th</sup> September, 2025*)
3. Special Issue on “*Intelligent Informatics and Computing for Security*” in **International Journal of Rough Sets and Data Analysis**, vol. 5, no. 3, ISSN: 2334-4601, IGI (*IGI Global Publication*) [*DBLP indexed*]

#### **BOOKS EDITED:**

1. Edited a Book on “*AI Based Cybersecurity Management: Securing Digital Economy*”, CRC Press, Taylor & Francis, vol. x, ISSN: 2948-2992 series. (*under production*)

#### **CONFERENCE SESSION CHAIRED:**

1. Served as Chair of Session on “*Systems and Application Security/Cryptosystems, Algorithms*” in **Sixth International Symposium on Security in Computing and Communications (SSCC-2018)** held on 19<sup>th</sup> –22<sup>nd</sup> September 2018, Bangalore, India, *CCIS*, vol. 969, ISBN: 978-981-10-5826-5 (*Proceeding by Springer*), Available at: <https://doi.org/10.1007/978-981-13-5826-5>

#### **CONFERENCE SPECIAL SESSION ORGANIZED:**

1. Organized a Special Session on “*Recent Advancements on Information Security*” with **International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA-2016)** held on 16<sup>th</sup> –17<sup>th</sup> September 2016, *Advances in Intelligent Systems and Computing*, vol. 515, ISBN: 978-981-10-3153-3 (*Proceeding by Springer*), Available at: <https://doi.org/10.1007/978-981-10-3153-3>

#### **CONFERENCE TRACK MANAGER:**

1. Served as track manager for Track: *Information Security Applications* in **International Conference International Conference on Computer and Communication Technologies (IC3T-2016)** held on 5<sup>th</sup> – 6<sup>th</sup> November 2016, *Advances in Intelligent Systems and Computing*, vol. 542, ISBN: 978-981-10-3223-3 (*Proceeding by Springer*), Available at: <https://doi.org/10.1007/978-981-10-3223-3>
2. Served as track manager for Track: *Network Security, Wireless and Mobile Computing* in **Third International Conference on Information systems Design and Intelligent Applications (INDIA-2016)** held on 8<sup>th</sup> – 9<sup>th</sup> January 2016, *Advances in Intelligent Systems and Computing*, vol. 535, ISBN: 978-81-322-2757-1 (*Proceeding by Springer*), Available at: <https://doi.org/10.1007/978-81-322-2757-1>

#### **SERVED AS REVIEWER/REFEREE OF FOLLOWING INTERNATIONAL JOURNALS:**

1. IEEE TRANSACTIONS ON INFORMATION FORENSICS & SECURITY (*SCIE*), *IEEE*
2. IEEE TRANSACTIONS ON CYBERNETICS (*SCIE*), *IEEE*
3. IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE (*SCIE*), *IEEE*
4. IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS (*SCIE*), *IEEE*
5. IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY (*SCIE*), *IEEE*
6. IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I: REGULAR PAPERS (*SCIE*), *IEEE*
7. IEEE TRANSACTIONS ON NEURAL NETWORKS & LEARNING SYSTEMS (*SCI*), *IEEE*
8. IEEE TRANSACTIONS ON SYSTEMS, MAN AND CYBERNETICS: SYSTEMS (*SCI*), *IEEE*
9. IEEE TRANSACTIONS ON IMAGE PROCESSING (*SCIE*), *IEEE*
10. IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS (*SCIE*), *IEEE*
11. IEEE TRANSACTIONS ON COGNITIVE AND DEVELOPMENTAL SYSTEMS (*SCIE*), *IEEE*
12. IEEE TRANSACTIONS ON CONSUMER ELECTRONICS (*SCIE*), *IEEE*
13. IEEE TRANSACTIONS ON NETWORK SCIENCE AND ENGINEERING (*SCIE*), *IEEE*
14. IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING (*SCIE*), *IEEE*
15. IEEE TRANSACTIONS ON GREEN COMMUNICATIONS AND NETWORKING (*SCIE*), *IEEE*

16. IEEE TRANSACTIONS ON RELIABILITY (SCIE), *IEEE*
17. IEEE TRANSACTIONS ON INDUSTRIAL CYBER-PHYSICAL SYSTEMS (SCIE), *IEEE*
18. IEEE TRANSACTIONS ON CLOUD COMPUTING (SCIE), *IEEE*
19. IEEE TRANSACTIONS ON MOBILE COMPUTING (SCIE), *IEEE*
20. IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS (SCIE), *IEEE*
21. IEEE TRANSACTIONS ON NANOBIOSCIENCE (SCIE), *IEEE*
22. IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS (SCI), *IEEE*
23. IEEE INTERNET OF THINGS JOURNAL (SCIE), *IEEE*
24. IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS (SCIE), *IEEE*
25. IEEE SIGNAL PROCESSING LETTERS (SCIE), *IEEE*
26. IEEE SYSTEMS JOURNAL (SCIE), *IEEE*
27. IEEE MULTIMEDIA (SCIE), *IEEE*
28. IEEE ACCESS (SCIE), *IEEE*
29. IEEE/ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS (SCIE), *IEEE*
30. ACM TRANSACTIONS ON SENSOR NETWORKS (SCIE), *ACM*
31. ACM TRANSACTIONS ON PRIVACY AND SECURITY (SCIE), *ACM*
32. JOURNAL OF INFORMATION SECURITY AND APPLICATIONS (SCIE), *ELSEVIER*
33. INFORMATION SCIENCES (SCI), *ELSEVIER*
34. SIGNAL PROCESSING (SCIE), *ELSEVIER*
35. JOURNAL OF KING SAUD UNIVERSITY - CIS (SCIE), *ELSEVIER*
36. NEUROCOMPUTING (SCIE), *ELSEVIER*
37. KNOWLEDGE-BASED SYSTEMS (SCIE), *ELSEVIER*
38. EXPERT SYSTEMS WITH APPLICATIONS (SCIE), *ELSEVIER*
39. ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, (SCIE), *ELSEVIER*
40. APPLIED SOFT COMPUTING (SCIE), *ELSEVIER*
41. NEURAL NETWORKS (SCIE), *ELSEVIER*
42. COMPUTERS IN BIOLOGY AND MEDICINE (SCI), *ELSEVIER*
43. PHYSICA A : STATISTICAL MECHANICS AND ITS APPLICATIONS (SCI), *ELSEVIER*
44. CHAOS, SOLITONS & FRACTALS (SCI), *ELSEVIER*
45. SIGNAL PROCESSING: *IMAGE COMMUNICATION* (SCI), *ELSEVIER*
46. ALEXANDRIA ENGINEERING JOURNAL (SCIE), *ELSEVIER*
47. AIN SHAMS ENGINEERING JOURNAL (SCIE), *ELSEVIER*
48. ENGINEERING SCIENCE AND TECHNOLOGY: AN INTERNATIONAL JOURNAL (SCIE), *ELSEVIER*
49. INTEGRATION (SCIE), *ELSEVIER*
50. ICT EXPRESS (SCIE), *ELSEVIER*
51. SCIENCE CHINA TECHNOLOGICAL SCIENCES (SCIE), *SPRINGER*
52. SCIENTIFIC REPORTS (SCIE), *SPRINGER*
53. NEURAL COMPUTING AND APPLICATIONS (SCIE), *SPRINGER*
54. WIRELESS PERSONAL COMMUNICATIONS (SCIE), *SPRINGER*
55. COMPUTATIONAL AND APPLIED MATHEMATICS (SCIE), *SPRINGER*
56. ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING (SCIE), *SPRINGER*
57. FRONTIERS OF INFORMATION TECHNOLOGY & ELECTRONIC ENGINEERING (SCIE), *SPRINGER*
58. INTERNATIONAL JOURNAL OF DYNAMICS AND CONTROL (SCIE), *SPRINGER*
59. INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, (SCIE), *WORLD SCIENTIFIC*
60. NETWORK: COMPUTATION IN NEURAL SYSTEMS (SCIE), *TAYLOR & FRANCIS*
61. IET INTELLIGENT TRANSPORT SYSTEMS (SCIE), *IET*
62. IET INFORMATION SECURITY (SCIE), *IET*
63. IET IMAGE PROCESSING (SCIE), *IET*
64. JOURNAL OF THE CHINESE INSTITUTE OF ENGINEERS (SCIE), *TAYLOR & FRANCIS*
65. IETE JOURNAL OF RESEARCH (SCIE), *TAYLOR & FRANCIS*
66. INFORMATION SECURITY JOURNAL: A GLOBAL PERSPECTIVE (ESCI-SCOPUS), *TAYLOR & FRANCIS*
67. CONCURRENCY AND COMPUTATION: PRACTICE AND EXPERIENCE (SCIE), *WILEY*
68. COMPUTER SYSTEMS SCIENCE AND ENGINEERING (SCIE), *TECH SCIENCE PRESS*
69. COMPUTERS, MATERIALS & CONTINUA (SCIE), *TECH SCIENCE PRESS*
70. PEERJ COMPUTER SCIENCE (SCIE), *PEERJ, INC*
71. SECURITY AND COMMUNICATION NETWORKS (SCIE), *HINDAWI - WILEY*
72. FRACTAL AND FRACTIONAL (SCIE), *MDPI*
73. SENSORS (SCIE), *MDPI*
74. ENTROPY (SCIE), *MDPI*
75. SYMMETRY (SCIE), *MDPI*

76. APPLIED SCIENCES (SCIE), *MDPI*
77. MATHEMATICS (SCIE), *MDPI*
78. INTERNATIONAL JOURNAL OF BIO-INSPIRED COMPUTING (SCIE), *INDERSCIENCE*
79. INTERNATIONAL JOURNAL OF INFORMATION AND COMPUTER SECURITY (SCOPUS), *INDERSCIENCE*
80. INTERNATIONAL JOURNAL OF INFORMATION SECURITY AND PRIVACY (SCOPUS), *IGI GLOBAL*

#### **REVIEWER/TPC MEMBER OF CONFERENCES:**

- Served as TPC member and Reviewer of more than 50 International Conferences.

#### **OTHER ACADEMIC ACTIVITIES:**

- Designed syllabi of ***Multimedia Systems, Artificial Neural Networks, Digital Forensics***, and ***Quantum Cryptography*** for under new curriculum in the Department of Computer Engineering, Jamia Millia Islamia, New Delhi.
- Designed syllabi of M.Tech courses of ***“Algorithm Design”, “Soft Computing”, “Multimedia Technology”*** and ***“Digital Image Processing”*** in the Department of Computer Engineering, Jamia Millia Islamia, New Delhi.
- Revised syllabus of ***“Analysis and Design of Algorithms”*** and ***“Discrete Mathematics”*** in the Department of Computer Engineering, Jamia Millia Islamia, New Delhi.
- Introduced a B.Tech Elective course ***“Soft Computing Techniques”*** and designed its syllabus in the Department of Computer Engineering, Jamia Millia Islamia, New Delhi.
- Revised syllabus of ***“Microprocessor Theory & Applications”*** course at Department of Computer Engineering, AMU, Aligarh.

#### **RESPONSIBILITIES:**

- Serving as Sub-Purchase Committee Member for FTK-CIT JMI.
- Serving as Member of Institutional Multidisciplinary Research Advisory Committee (IMRAC) of Regional Research Institute of Unani Medicine, New Delhi, Ministry of Ayush, Govt. of India.
- Serving as Project Coordinator for M.Tech of the Department since 2019.
- Serving as CBCS Programme Advisor of the Department under CBCS system since 2015.
- Serving as Teacher Coordinator of the Department for B.Tech (3<sup>rd</sup> & 4<sup>th</sup> Sem) IInd year.
- Prepared Departmental NAAC Accreditation Report and served as Nodal faculty member for 2015 NAAC related activities.
- Served as Member of Departmental Syllabus Committee formed to design Subjects syllabi for M.Tech regular course in the Department in 2015.
- Served as member of ICT Guidelines Compliance Committee constituted, in May 2011, to observe the compliance of ICT guidelines and utilization of Personal computers in Jamia Millia Islamia.

#### **ONGOING SUPERVISION:**

PH.D	:	6
M.TECH DISSERTATIONS	:	2
B.TECH PROJECTS	:	3

#### **DISSERTATIONS/PROJECTS SUPERVISED:**

M.TECH DISSERTATIONS	:	14
M.TECH PROJECTS	:	16
B.TECH PROJECTS	:	40+



#### **SHORT-TERM COURSE/FDP/WORKSHOPS ATTENDED:**

- Participated and completed one week Faculty Development Program on "*Methods for Improving Higher Education Teaching Quality Using Outcome Based Education, Pedagogical Approaches and NEP 2020 (OBENEP24)*" during 22nd-26th July, 2024, organized by Department of Computer Science & Engineering in association with IQAC, Haldia Institute of Technology.
- Completed Two-Week Interdisciplinary Refresher Course on "*Advanced Research Methodology*" during 23 Feb – 9 Mar 2023, organized by Teaching Learning Centre, Ramanujan College, University of Delhi, India.
- Attended 3rd One-Week International Workshop on "*Technical Writing using LaTeX*" during 30 Mar – 5 Apr 2023, organized by The School of Electronics Engineering (SENSE) at VIT-AP University, Amravati, India.
- Attended Short term training program on "*Artificial Intelligence and Machine Learning (STTP-AI&ML)*" during 4th July – 22nd July 2023, organized by Department of Computer Engineering, JMI, New Delhi, India
- Attended one week ATAL online Faculty Development Programme in "*Cyber Security*" during 21<sup>st</sup> September – 25<sup>th</sup> September 2020 organized by Dr Harisingh Gour University, Sagar, MP.
- Completed Two weeks online Refresher Course in "*Engineering, Physical Sciences and Management*" during 22<sup>nd</sup> June – 4<sup>th</sup> July 2020) organized by BVICAM, New Delhi.
- Attended Two weeks online Faculty Development Programme on "*Emerging Research Trends in Computer Science and IT*" during 8<sup>th</sup> June – 19<sup>th</sup> June 2020 organized by BVICAM, New Delhi.
- Participated in One-day Workshop over "*Emerging Trends in Digital World*" organized by Department of Computer Engineering, JMI, and FTK-Centre for Information Technology, JMI New-Delhi-110025 held on 08<sup>th</sup> March 2017.
- Attended 114<sup>th</sup> four week Orientation Programme during 03<sup>rd</sup> Nov – 03<sup>rd</sup> Dec 2015 organized by JMI-Human Resource Development Centre, Jamia Millia Islamia, New Delhi.
- Attended 3<sup>rd</sup> three week Summer Special Programme during 16<sup>th</sup> May – 5<sup>th</sup> June 2014 organized by Academic Staff College, Jamia Millia Islamia, New Delhi.
- Participated in a Short-term course over "*Multimedia Technology & Applications*" organized by Department of Electronics Engineering, AMU, Aligarh held on.
- Participated in two-days Workshop over "*Emerging Trends in Information & Communication Technology*" organized by Department of Computer Engineering, AMU, Aligarh held on.
- Participated in One-day Workshop over "*Emerging Trends in ICT based Learning*" jointly organized by FTK-Centre for Information Technology, JMI and Department of Computer Engineering, JMI, New-Delhi-110025 held on.

#### **CONFERENCES ATTENDED:**

- International Conference on Recent Advances in Electrical, Electronics & Digital Healthcare Technologies (**REEDCON-2023**), 01-03 May 2023.
- International Symposium on Security in Computing and Communications (**SSCC-2018**), 19-22 September 2018, Bangalore.
- International Conference on Electrical, Electronics, and Optimization Techniques (**ACCT-2016**), 3-4 September 2016, Rohtak, Haryana.
- International Conference on Electrical, Electronics, and Optimization Techniques (**ICEEOT-2016**), 3-5 March 2016, Ponamallee, Chennai.

- International Congress on Information and Communication Technology (**ICICT-2015**), 9-10 October 2015, Udaipur.
- International Symposium on Security in Computing and Communications (**SSCC-2014**), 24-27 September 2014, Greater Noida.
- International Conference on Multimedia, Signal Processing and Communication Technologies (**IMPACT-2011**), 17-19 December 2011, Aligarh.
- Fourth International Conference on Contemporary Computing (**IC3-2011**), 8-10 August 2011, Noida.
- International Conference on High Performance Architecture and Grid Computing (**HPAGC-2011**), 19-20 July 2011, Punjab.
- 1st International Conference on Parallel, Distributed and Grid Computing (**PDGC-2010**), 28-30 October 2010, Solan.
- Third International Conference on Contemporary Computing (**IC3-2010**), 9-11 August 2010, Noida.
- Fourth International Conference on Wireless Communication and Sensor Networks (**WCSN-2008**), 26-29 December 2008, Allahabad.
- International Conference on Wireless Networks and Embedded Systems (**WECON-2008**), 18-19 October 2008, Punjab.

#### **PROFESSIONAL MEMBERSHIPS:**

- Member of Society of Digital Information and Wireless Communication (SDIWC), USA.
- Member of International Association of Computer Science and Information Technology (IACSIT), Singapore.
- Member of Institute of Doctors, Engineers and Scientists (IDES), India.

#### **PERSONAL DETAILS:**

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**@DBLP** : <https://dblp.org/pid/89/8467-2.html>

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**(Dr. Musheer Ahmad)**

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