



Dr. Law Kumar Singh is an accomplished academician and researcher, currently serving as **Professor** in the **School of Computer Science and Engineering** at **IILM University, Gurugram**. He possesses over **20 years of rich experience** in teaching, research, and academic administration. Prior to joining IILM University, he served at **GLA University, Mathura, Amity University Punjab, Mohali, and Sharda**

Group of Institutions holding progressively senior academic and administrative positions.

He has a **Google Scholar H-index of 31** and a **Scopus H-index of 27**, reflecting the significant impact and quality of his research contributions. His primary research interests include **Medical Image Processing, Artificial Intelligence, Machine Learning, Deep Learning, and Computer Vision**.

Dr. Singh has made substantial contributions to research, with **more than 76 publications**, including **32 SCI-indexed journal papers, 10 ESCI/Scopus-indexed journal papers, 8 Scopus-indexed book chapters, and 22 Scopus-indexed conference papers**, published by renowned publishers such as **Springer, Elsevier, CRC Press, and IGI Global**.

His research excellence has been recognised through several prestigious honours, including being listed among the **World's Top 2% Scientists (Elsevier–Stanford, 2025)**, receiving the **Best Researcher Award 2024** from GLA University, and the **Best Teacher Award 2022** at the AKTU State Level. He is also the inventor of a **granted patent** in intelligent computing. Currently, he is supervising **three Ph.D. scholars** and actively contributes to **curriculum development, quality assurance initiatives, and international research committees**, while continuing to advance research and innovation in artificial intelligence and intelligent healthcare systems.

Educational Qualification

- Ph.D., Computer Science & Engineering, Sharda University, Greater Noida
 - Topic: Detection of Glaucoma Disease in Retinal Images Using Machine Learning
 - Course Work GRAD: 8 CGPA
 - Publications during Ph.D.: 4 SCI (unpaid Journal), 2 Scopus, 1 DBLP, 2 ESCI, 2 International Conferences, 2 Chapters
- M.Tech., Computer Science & Engineering, Rajasthan Technical University– 1st Division with Honours
- B.Tech. in Computer Science & Engineering (Grad. IETE), Institution of Electronics and Telecommunication Engineers (IETE), New Delhi, India – 1st Division
- Bachelor of Software Systems, Dr. B.R. Ambedkar University, Agra – 1st Division

BOOK:

Data Structures and Algorithms

Research and Scholarly Publication

Publication Summary: 76+ total publications - 32 SCI, 10 ESCI/Scopus journals, 4 other journals, 8 Scopus book chapters, 22 Scopus conference papers.

SCI-INDEXED JOURNAL PUBLICATIONS (32)

- Singh, R., Singh, L.K., Sharma, A.K. et al. Hybrid metaheuristic optimization of convolutional neural networks for tomato leaf disease classification. Sci Rep (2026). <https://doi.org/10.1038/s41598-026-54355-w>
- Selvan, C., Senthilkumar, K., Balasubramanian, K., & Singh, L.K. (2026). Satellite Image Denoising Leveraging ResUnet Architecture Integrated with Variational Autoencoder Techniques for Enhanced Image Quality and Noise Reduction. Signal Processing: Image Communication, 117531.
- Singh, L.K., Emilyn, J.J., Ramya, T.E., & Rani, A.J. (2026). Physics-guided transfer learning framework for melanoma detection using optimized visual geometry group networks. Expert Systems with Applications, 131940.
- Pabitha, C., Singh, M.L.K., & Lakshmi, M.T.V. (2025). Enhanced Brain Tumor Classification via Efficient Predefined Time Adaptive Neural Network Optimized with High-Level Target Navigation Pigeon-Inspired Optimization. Knowledge-Based Systems, 114658.
- Kayal, M., Pati, J., Kumar, S. et al. (2026). Parametrically modified BERT for emotion prediction through sentiment analysis. Discover Computing 29, 69. <https://doi.org/10.1007/s10791-026-09958-2>
- Singh, L.K., Khanna, M., Yadav, A. et al. (2026). A hybrid feature selection framework collaborating image processing, evolutionary intelligence, and machine learning for covid-19 disease classification. Netw Model Anal Health Inform Bioinforma 15, 105. <https://doi.org/10.1007/s13721-026-00786-4>
- Karthi, G., Kumar, K.S., Singh, L.K., & Murugesan, P. (2026). Diabetic foot ulcer detection using a Dynamic Slimmable Network with Pyramid Attention Network-based Human Memory Optimization Algorithm. International Journal of Diabetes in Developing Countries, 1-20.
- Singh, L.K., Mathivanan, M., Ananthi, P., & Sitaraman, S.R. (2025). Cycle-Consistent Simplicial Adversarial Adaptation Network with Spider Wasp Optimizer-Based EEG Signals Classification Model for Epileptic Seizure. Circuits, Systems, and Signal Processing, 1-37. <https://doi.org/10.1007/s00034-025-03250-2>
- Singh, L.K., Khanna, M., Garg, H. et al. (2024). A three-stage novel framework for efficient and automatic glaucoma classification from retinal fundus images. Multimedia Tools and Applications. <https://doi.org/10.1007/s11042-024-19603-z>
- Singh, L.K., Khanna, M., Garg, H. et al. (2024). A novel soft computing based efficient feature selection approach for timely identification of COVID-19 infection using chest CT images. Multimedia Tools and Applications. <https://doi.org/10.1007/s11042-024-19549-2>

- Singh, L.K., Khanna, M., Monga, H. et al. (2024). Nature-Inspired Algorithms-Based Optimal Features Selection Strategy for COVID-19 Detection Using Medical Images. *New Generation Computing*. <https://doi.org/10.1007/s00354-024-00255-4>
- Singh, L.K., Khanna, M., Thawkar, S. et al. (2024). A novel hybridized feature selection strategy for the effective prediction of glaucoma in retinal fundus images. *Multimedia Tools and Applications* 83, 46087-46159. <https://doi.org/10.1007/s11042-023-17081-3>
- Singh, L.K., Khanna, M. & Singh, R. (2024). Efficient feature selection for breast cancer classification using soft computing approach: A novel clinical decision support system. *Multimedia Tools and Applications* 83, 43223-43276. <https://doi.org/10.1007/s11042-023-17044-8>
- Singh, L.K., & Shrivastava, K. (2024). An enhanced and efficient approach for feature selection for chronic human disease prediction: A breast cancer study. *Heliyon*, 10(5).
- Singh, L.K., Khanna, M. & Singh, R. (2024). Feature subset selection through nature inspired computing for efficient glaucoma classification from fundus images. *Multimedia Tools and Applications*. <https://doi.org/10.1007/s11042-024-18624-y>
- Singh, L.K., Khanna, M. & Singh, R. (2024). An enhanced soft-computing based strategy for efficient feature selection for timely breast cancer prediction: Wisconsin Diagnostic Breast Cancer dataset case. *Multimedia Tools and Applications*. <https://doi.org/10.1007/s11042-024-18473-9>
- Singh, L.K., Khanna, M., Garg, H. et al. (2024). Emperor penguin optimization algorithm and bacterial foraging optimization algorithm-based novel feature selection approach for glaucoma classification. *Soft Computing* 28, 2431-2467. <https://doi.org/10.1007/s00500-023-08449-6>
- Singh, L.K., Khanna, M., Garg, H., & Singh, R. (2024). Efficient feature selection based novel clinical decision support system for glaucoma prediction from retinal fundus images. *Medical Engineering & Physics*, 123, 104077.
- Khanna, M., Singh, L.K., Thawkar, S. et al. (2024). PlaNet: a robust deep convolutional neural network model for plant leaves disease recognition. *Multimedia Tools and Applications* 83, 4465-4517. <https://doi.org/10.1007/s11042-023-15809-9>
- Shajin, F.H., Singh, L.K., & Karunkuzhali, D. (2023). Multimedia Computation Offloading for 5G Networks Using the Volcano Eruption Optimization Algorithm. *IETE Journal of Research*, 1-10. <https://doi.org/10.1080/03772063.2023.2261887>
- Singh, L.K., & Khanna, M. (2023). A novel enhanced hybrid clinical decision support system for accurate breast cancer prediction. *Measurement*, 221, 113525.
- Singh, L.K., Khanna, M., Thawkar, S. et al. (2023). Nature-inspired computing and machine learning based classification approach for glaucoma in retinal fundus images. *Multimedia Tools and Applications* 82, 42851-42899. <https://doi.org/10.1007/s11042-023-15175-6>
- Khanna, M., Singh, L.K., Thawkar, S. et al. (2023). Deep learning based computer-aided automatic prediction and grading system for diabetic retinopathy. *Multimedia Tools and Applications* 82, 39255-39302. <https://doi.org/10.1007/s11042-023-14970-5>
- Thawkar, S., Katta, V., Parashar, A.R., Singh, L.K., & Khanna, M. (2023). Breast cancer: A hybrid method for feature selection and classification in digital mammography. *International Journal of Imaging Systems and Technology*, 33(5), 1696-1712.

- Khanna, M., Agarwal, A., Singh, L.K. et al. (2023). Radiologist-Level Two Novel Automated Computer-Aided Prediction Models for Early Detection of COVID-19 from Chest X-ray Images. *Arabian Journal for Science and Engineering* 48, 11051-11083. <https://doi.org/10.1007/s13369-021-05880-5>
- Singh, L.K., Khanna, M., & Thawkar, S. (2022). A novel hybrid robust architecture for automatic screening of glaucoma using fundus photos, built on feature selection and machine learning-nature driven computing. *Expert Systems*, 39(10), e13069.
- Singh, L.K., Pooja, Garg, H. et al. (2022). Deep learning system applicability for rapid glaucoma prediction from fundus images across various data sets. *Evolving Systems* 13, 807-836. <https://doi.org/10.1007/s12530-022-09426-4>
- Singh, L.K., Khanna, M., Thawkar, S., & Singh, R. (2022). Collaboration of features optimization techniques for the effective diagnosis of glaucoma in retinal fundus images. *Advances in Engineering Software*, 173, 103283.
- Singh, L.K., Pooja, Garg, H. et al. (2022). Performance evaluation of various deep learning based models for effective glaucoma evaluation using optical coherence tomography images. *Multimedia Tools and Applications* 81, 27737-27781. <https://doi.org/10.1007/s11042-022-12826->
- Singh, L.K., & Khanna, M. (2022). A novel multimodality based dual fusion integrated approach for efficient and early prediction of glaucoma. *Biomedical Signal Processing and Control*, 73, 103468.
- Thawkar, S., Sharma, S., Khanna, M., & Kumar Singh, L. (2021). Breast cancer prediction using a hybrid method based on butterfly optimization algorithm and ant lion optimizer. *Computers in Biology and Medicine*, 139, 104968.
- Singh, L.K., Pooja, Garg, H. et al. (2021). An enhanced deep image model for glaucoma diagnosis using feature-based detection in retinal fundus. *Medical & Biological Engineering & Computing* 59, 333-353. <https://doi.org/10.1007/s11517-020-02307-5>

ESCI/SCOPUS-INDEXED JOURNAL PUBLICATIONS (10)

- Kaur, J., Singh, L.K. (2026). Real-time object detection using YOLO variants with nature-inspired algorithm. *Iranian Journal of Computer Science* 9, 22. <https://doi.org/10.1007/s42044-025-00357-2>
- Singh, L.K., Khanna, M., Garg, H., & Singh, R. (2025). A novel soft computing based efficient feature selection approach for timely identification of COVID-19 infection using chest CT images: a human centered intelligent clinical decision support system. *Multimedia Tools and Applications*, 84(14), 13717-13785.
- Law Kumar Singh, Pooja, Garg, H., & Khanna, M. (2022). HOG-Based ANN Classifier for Glaucoma Detection. *International Journal of Swarm Intelligence Research (IJSIR)*, IGI Global, 13(1), 1-32. (ESCI, Scopus)
- Law Kumar Singh, Khanna, M., Thawakar, S. & Gopal, J. (2021). Robustness for authentication of the Human using Face, Ear, and Gait multimodal biometric system. IGI Global, *IJISMD*, 12(1), Article 5. (ESCI, Scopus) DOI: 10.4018/IJISMD.2021010103
- Law Kumar Singh, Khanna, M., & Garg, H. (2020). Multimodal Biometric based on Fusion of ridge features with minutiae features and face features. IGI Global, *IJISMD*, 11(1), Article 3. DOI: 10.4018/IJISMD.2020010103 (ESCI, Scopus)
- Law Kumar Singh, Pooja, & Garg, H. (2019). A Novel Deep Learning approach for Detection of Glaucoma. *Journal of Advanced Research in Dynamical and Control Systems*. (Scopus) <https://jardcs.org/abstract.php?id=1143>

- Law Kumar Singh, Garg, H., Pooja, & Khanna, M. (2020). Performance analysis of machine learning technique for glaucoma detection based on textural and intensity features. IJICA, INDERSCIENCE. (Scopus) <https://www.inderscienceonline.com/doi/abs/10.1504/IJICA.2020.111230>
- Thawkar, S., Singh, L.K., & Khanna, M. (2021). Multi-objective Techniques for Feature Selection and Classification in Digital Mammography. *Intelligent Decision Technologies*, 15(1), 115-125. DOI: 10.3233/IDT-200049 (ESCI, Scopus)
- Khanna, M., Kulshreshtha, M., & Singh, L.K. (2022). Performance Evaluation of Machine Learning Algorithms for Stock Price and Stock Index Movement Prediction. *IJAMC*, IGI Global, 13(1), Article 36. DOI: 10.4018/IJAMC.292511 (ESCI, Scopus)
- Khanna, M., Chauhan, N., Sharma, D., & Singh, L.K. (2021). A multi-objective approach for test suite reduction during testing of Web Applications: A Search Based Approach. *IJAMC*, IGI Global, 12(3), Article 4. DOI: 10.4018/IJAMC.2021070104 (ESCI, Scopus)

DBLP-INDEXED JOURNAL PUBLICATION (1)

- Law Kumar Singh, Pooja, & Garg, H. (2019). Multiobjective approach based on detection of Glaucoma in retinal images. *IGI Global, International Journal of Applied Evolutionary Computation (IJAEC)*, 11(2), Article 2. (DBLP) DOI: 10.4018/IJAEC.2020040102

OTHER JOURNAL PUBLICATIONS (4)

- Law Kumar Singh. (2017). Hair Pattern Biometric Detection: Review. *International Journal of Embedded Systems and Emerging Technologies*. eISSN: 2456-723X.
- Law Kumar Singh. (2014). Security of User's Private Attributes. *International Journal of Engineering Research and Technology*, 3(4). ISSN: 2278-0181.
- Law Kumar Singh, Chaudhary, D., & Varshney, G. (2012). A Novel approach of 3D watermarking algorithm using vertex normal. *International Journal of Computer Application*, 60(5). ISBN: 973-93-80871-85-2.
- Law Kumar Singh & Gupta, P. (2014). Personal Authentication Based on Iris Recognition. *International Journal of Science and Research*, 5(2). ISSN: 2319-7064.

SCOPUS-INDEXED BOOK CHAPTERS (8)

- Singh, L.K., Khanna, M., & Singh, R. (2026). The role of digital twin technology in sustainable smart cities. In *Digital Twins for Sustainable Development* (pp. 233-249). Elsevier.
- Matiray, S., & Singh, L.K. (2025). Deep Learning for Early Skin Cancer Detection: A Comparative Study on Hybrid CNN Models. In *Data, Information and Computing Science* (pp. 111-125). IOS Press.
- Selvakumar, P., Anitha, S., Singh, L.K., et al. (2025). Addressing Ethical and Regulatory Challenges in AI-Driven Healthcare. In *Deep Learning in Medical Signal and Image Processing* (pp. 23-44). IGI Global.
- Punna, H.S., Singh, L.K., Veena, V.S., et al. (2025). Emerging Trends in Artificial Intelligence for Medical Application. In *Deep Learning in Medical Signal and Image Processing* (pp. 313-336). IGI Global.
- Law Kumar Singh, Garg, H., & Pooja. (2020). Automated glaucoma type identification using Machine Learning or Deep Learning techniques. In *Advancement of Machine*

Intelligence in Interactive Medical Image Analysis (pp. 241-263). Springer. https://link.springer.com/chapter/10.1007/978-981-15-1100-4_12

- Law Kumar Singh, Pooja, Garg, H., Khanna, M., Bhadoria, R. (2021). An Analytical Study on Machine Learning Techniques. In Multidisciplinary Functions of Blockchain Technology in AI and IoT Applications. DOI: 10.4018/978-1-7998-5876-8.ch007
- Law Kumar Singh & Khanna, M. Introduction to Artificial Intelligence. In Innovations in Artificial Intelligence and Human Computer Interaction in the Digital Era. Elsevier. <https://doi.org/10.1016/B978-0-323-99891-8.00001-2>
- Law Kumar Singh & Khanna, M. Application of Artificial Intelligence and Automation Techniques to Improve Health Services. In Applied Intelligence in Human Computer Interaction. CRC Press. <https://doi.org/10.1201/9781003415466>

NATIONAL/INTERNATIONAL SCOPUS-INDEXED CONFERENCE PAPERS (22)

- Gupta, V.K., Gupta, A., Jain, P., Anupriya, Singh, S., & Singh, L.K. (2025). Enhancing Productivity in Software Testing Automation: A Comparative Study of Open-Source Tools for Smart Manufacturing. 2025 2nd Global AI Summit (AI Summit), Noida, India, pp. 1307-1312. doi: 10.1109/AISummit66170.2025.11411635.
- Singh, R., Singh, L.K., Gupta, V.K., & Kaur, M. (2025). Tomato Leaf Disease Detection Using a Hybrid of CNN and Whale Optimization Algorithm. 2025 2nd Global AI Summit (AI Summit), Noida, India, pp. 393-398. doi: 10.1109/AISummit66170.2025.11411119.
- Srivastava, C., Pandey, A., Singh, L.K., Gupta, V.K., & Tyagi, V. (2025). Enterprise Applications for Text Summarization: Bridging Research Innovations with Market Trends and Future Directions. 2025 2nd Global AI Summit (AI Summit), Noida, India, pp. 1505-1510. doi: 10.1109/AISummit66170.2025.11410837.
- Singh, R., Singh, L.K., & Gupta, V.K. (2026). A Comparative Study of Whale, Ant Lion, and Dragonfly Optimization Algorithms for CNN-Based Tomato Leaf Disease Detection. In Proceedings of ICIDS 2025, LNNS vol. 1843. Springer. https://doi.org/10.1007/978-3-032-19300-1_25
- Singh, R.S., & Singh, L.K. (2025). Tomato Leaf Detection Using Hybrid of CNN and Ant Lion Optimization. 2025 International Conference on Emerging Technologies and Innovation for Sustainability (EmergIN), Greater Noida, India, pp. 74-79. doi: 10.1109/EmergIN67762.2025.11450918.
- Verma, A., & Singh, L.K. (2025). Hybrid Feature Extraction using LBP and HOG for Enhanced Facial Emotion Recognition with CNN. 2025 EmergIN, Greater Noida, India, pp. 17-22. doi: 10.1109/EmergIN67762.2025.11450621.
- Shukla, S.K., Gupta, V.K., Sharma, G., Jain, P., Meena, S.S., & Singh, L.K. (2025). Comparative Analysis of Consensus Algorithms in Blockchain Systems: Insights from MBFT and Existing Approaches. 2025 IEEE RSCM, Bhopal, India, pp. 1-6. doi: 10.1109/RSCM67767.2025.11507629.
- Kaushal, S., Singh, L.K., Agnihotri, D., Garg, D., Kaur, B., & Gupta, V.K. (2025). AI-Powered Diagnosis and Categorization of Gastrointestinal Diseases. 2025 IEEE RSCM, Bhopal, India, pp. 1-6. doi: 10.1109/RSCM67767.2025.11507983.
- Singh, P., Singh, L.K., Gupta, V.K., & Yadav, T. (2026). A Novel Hybrid GWO-FIS: An Optimized Fuzzy Inference System for Real-Time Intruder Risk Assessment in Video Surveillance. 2026 ICSFT, Bengaluru, India. doi: 10.1109/ICSFT66733.2026.11506636.

- Jain, P., Gupta, V.K., Sharma, G., Singh, L.K., Taneja, I., & Sharma, R. (2026). BrickWorth: An Intelligent House and PG/Flat Price Prediction and Management System Using Machine Learning. 2026 CCIC, Tirupati, India. doi: 10.1109/CCIC68129.2026.11485907.
- Jain, P., Gupta, V.K., Anupriya, Singh, L.K., Sharma, B., & Kumar, A. (2026). Himalayan Farm Fresh: ML-Powered Organic Product Management System. 2026 CCIC, Tirupati, India. doi: 10.1109/CCIC68129.2026.11486003.
- Singh, L.K., Parida, P.K., & Gunganathan, L. (2025). Detection of Lung Cancer in Histopathological Images Utilizing Self-Guided Quantum Generative Adversarial Network with Cat Hunting Optimization. 2025 4th ICSADL, IEEE, pp. 693-699.
- Sharma, R.G., Garg, H., & Singh, L.K. (2025). A Framework for Face Mask Detection and Face Recognition of Masked Images Using ResNet50 CNN with Multi-Task Learning and Cross-Attention Mechanism. 2025 7th ISPCC, IEEE, pp. 237-242.
- Kayal, M., Sahoo, M., Pati, J., Singh, L.K., Mohana, R., & Singh, R. (2025). Comparative Evaluating of Machine Learning Classifiers through Sentiment Analysis to Detect Emotions Using TF-IDF. 2025 7th ISPCC, IEEE, pp. 619-623.
- Agrawal, R., Chaudhary, P., Singh, L.K., Singh, S., Kumar, U., & Gupta, S. (2024). Deep Learning Technique for the Classification of Dental Caries. In Proceedings of International Conference on Data Science and Applications (pp. 401-412). Springer Nature Singapore.
- Kayal, M., Singh, L.K., & Pati, J. (2025). Sentiment analysis of user comments using TF-IDF and machine learning classifiers: A comparative study. Recent Trends in Intelligent Computing and Communication: Volume 2, 449.
- Law Kumar Singh, Pooja, & Garg, H. (2019). Detection of Glaucoma in Retinal Fundus Images Using Fast Fuzzy C means clustering approach. In Proc. ICCIS-2019, IEEE. ISBN: 978-1-7281-4826-7. DOI: 10.1109/ICCIS48478.2019.8974539.
- Law Kumar Singh, Garg, H., & Pooja. (2020). Detection of Glaucoma Disease in Retinal Images using Machine Learning: An Analysis. AISC-2020, MNIT Jaipur, Feb 27-28, 2020. Published in Algorithms for Intelligence Systems, Springer.
- Law Kumar Singh. (2011). Analyzing the Total Order Broadcast algorithms. Jiwaji University, Gwalior, June 10-11, 2011. Sponsored by Computer Society of India and IETE, Gwalior.
- Law Kumar Singh. (2012). Analysis the classification of 3D object watermarking. In ICRTET 2012 Proceedings. ISBN: 978-81-925922-0-6. Subharti Institute of Technology & Engineering.
- Law Kumar Singh, Agarwal, R., Goyal, S., Punjabi, S., & Singh, S. (2015). Comprehensive Study of Personal Authentication Based on Iris Recognition. NCAICT-2015, Madhav Institute of Technology & Science, Gwalior.
- Law Kumar Singh, Verma, A., Gupta, C., Sharma, H., & Soni, H. (2015). Comprehensive Study of Drowsiness Detection System. NCAICT-2015, Madhav Institute of Technology & Science, Gwalior.

Ph.D. Supervision

Number of Ph.D. Candidates: 3

Patents & Intellectual Property

GRANTED PATENT

- Wireless Router Network Device — Design No. 418847-001.

PUBLISHED PATENTS

- IoT-Based Framework for Pristine Agriculture Products in Supply Chain Management — Patent No. 202211021610 (Published 2022).
- VIDYARTHI — A Coding Master — Copyright No. L-103241/2021.

Awards & Recognition

- World's Top 2% Scientists 2025 — Elsevier & Stanford University.
- Best Researcher Award 2024 — Department of Computer Engineering & Applications, GLA University, Mathura.
- Best Teacher Award 2022 (Overall Performance Category, CSE) — Awarded by AKTU Vice Chancellor at State Level, Lucknow.

Certifications

- NPTEL Elite — Compiler Design (12-week, IIT Kharagpur, 2019)
- NPTEL — Machine Learning for Engineering & Applications (12-week, IIT Madras, 2019)
- NPTEL — Deep Learning (2020) & Machine Learning (2020)
- NVIDIA Deep Learning Institute — Fundamentals of Deep Learning for Computer Vision
- Oracle Academy Certified Instructor — Java Fundamentals & Programming (2013)

Editorial & Reviewer Roles

REVIEWER — REPUTED SCI JOURNALS

Engineering Applications of Artificial Intelligence, Computers in Biology and Medicine, Eye and Vision, International Journal of Imaging Systems and Technology, Medical & Biological Engineering & Computing, Neural Processing Letters, The Imaging Science Journal, Scientific Reports, MDPI, Artificial Intelligence Review, Signal Image and Video Processing.

PROGRAM COMMITTEE MEMBER AND REVIEWER

- Program Committee Member and Reviewer, International Conference on Power Engineering and Intelligent Systems (PEIS 2023), 24-25 June 2023.
- Program Committee Member and Reviewer, 4th International Conference on Data Science and Applications (ICDSA 2023), 14-15 July 2023.
- Member, Technical Program Committee 2023, IEEE International Conference on Contemporary Computing and Communications (InC4), organized by the Department of Computer Science and Engineering, CHRIST (Deemed to be University), Kengeri Campus, Bengaluru-560074, during 21-22 April 2023.
- Member, Technical Program Committee and Reviewer, 4th International Conference on Recent Trends in Communications and Intelligent Systems, held 28-29 April 2023 at Arya College of Engineering & I.T., Jaipur, Rajasthan, India.

Short Term Courses, Workshops & Training Programs Attended

- Attended the Train the Trainer (T3) workshop on Data Visualization Using Python, conducted offline by the IBM ICE Team, 24-28 July 2023, GLA University, Mathura.

- Participated in a 10-day online faculty development program on “Recent Trends in Signal and Image Processing Applications,” sponsored by the Ministry of Electronics and Information Technology (MeitY), GoI, organized by E&ICT Academy, NIT Warangal and Vasavi College of Engineering, Hyderabad, 12-21 June 2023.
- Participated in a faculty development program on Application of Artificial Intelligence in Signal & Image Processing, conducted by the School of Computer Science and Engineering (SCOPE) & School of Electronics Engineering (SENSE), 6-10 June 2023, Vellore Institute of Technology, Chennai.
- Participated in a two-week online capacity building programme on Artificial Intelligence and Machine Learning, 10-23 March 2023, under the project “Empowering Girls to Reduce the Gender Gap in IT and ITES Sectors in South Asia Region: Training and E-content Development Programme.”
- Participated in a one-week online faculty development programme on ML/DL for Data Science and Analytics using Python, organized by the Department of Information Technology, 15-19 February 2023.
- Participated in a one-week online workshop on Advanced Statistical Data Analysis using SPSS, organized by Uttar Pradesh University of Medical Sciences, Saifai, Etawah & Science Tech Institute, Lucknow, U.P., India, 21-27 January 2023.
- Participated in a two-week (40-hour) online faculty development program on Smart Health Care Technologies: Opportunities and Challenges, jointly organized by academic partners, 25 July-5 August 2022.
- Participated in a five-day online faculty development program, “Unblock Blockchain,” 1-5 August 2022, at Ajay Kumar Garg Engineering College, Ghaziabad, organized by the Department of Information Technology in association with the Blockchain Research Lab Centre of Excellence of AKGEC.
- Participated in a five-day faculty development program, “Advances in Computer Science,” 20-24 July 2022, organized by the Department of CSE, Hindustan College of Science and Technology, Mathura.
- Attended the 4th one-week online faculty development program, “Recent Advances in Computer Science and Allied Domains (RACSAD-2022),” 20-25 June 2022, organized by the Department of CSE, Sharda University, Greater Noida.
- Participated in a two-week (40-hour) online faculty development program on Machine Learning for Computer Vision, jointly organized by Electronics and ICT Academies at IIT Roorkee, MNIT Jaipur, NIT Patna, NIT Warangal and PDPM IITDM Jabalpur, 21 Feb-4 March 2022, under the MeitY, GoI scheme, recognized by AICTE/UGC.
- Successfully completed the AICTE Training and Learning (ATAL) Academy online elementary FDP on Bio-Inspired Computing for Data Analytics, 8-12 February 2022, Lakireddy Bali Reddy College of Engineering.
- Successfully completed the AICTE Training and Learning (ATAL) Academy online elementary FDP on Artificial Intelligence in Contemporary Biomedical & Healthcare Applications: Fundamentals & Hands-on MATLAB, 21-25 January 2022, Gautam Buddha University, Greater Noida.
- Participated in a two-week (40-hour) online faculty development program on Deep Learning & Applications (Parallel Architectures), jointly organized by Electronics and ICT Academies at IIT Guwahati, IIT Kanpur, IIT Roorkee, MNIT Jaipur, NIT Patna, NIT Warangal and PDPM IITDM Jabalpur, 23 August-3 September 2021, under the MeitY, GoI scheme, recognized by AICTE/UGC.

- Successfully completed an online faculty development program on Advanced Optimization Techniques with hands-on MATLAB/SCILAB, jointly organized by MNIT Jaipur, NIT Patna, PDPM IITDM Jabalpur and IIT Guwahati, 6-17 September 2021, endorsed by NBA/AICTE/UGC.
- Attended a five-day online program on Artificial Intelligence, 4-9 January 2021, GSSS Institute of Engineering and Technology for Women.
- Attended a one-week STTP on Internet of Things and Data Analytics, conducted by the Department of Information Technology, 2-8 December 2020, JSS Academy of Technical Education, Noida.
- Attended a five-day FDP on Information Security and Privacy, 26-30 May 2020, MNIT Allahabad, Prayagraj, Uttar Pradesh, India.
- Attended a five-day FDP on Machine Learning and Deep Learning, 27-31 January 2020, Department of Electronics and Instrumentation Engineering, SRM Institute of Science and Technology, Kattankulathur.
- Attended a one-week AICTE-sponsored short-term training program on Deep Learning, Machine Learning and Pattern Recognition, 24-29 November 2019, SCET, Surat.
- Attended a training program on Microsoft Cloud and AI at the Digital Governance Tech Summit, 27 August 2019.
- Attended a one-day workshop-cum-brainstorming session on Sunrising Technologies, 18 March 2019, Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow.
- Attended a workshop on Machine Learning at AICTE HQ, New Delhi, 7-8 February 2019.
- Attended a six-day short-term course on Deep Learning: Theory and Practice, AICTE QIP-sponsored, 12-17 December 2018, Department of Computer Science and Engineering, IIT (BHU) Varanasi.
- Attended a five-day short-term course on High Performance Computing and Deep Learning, 21-25 October 2018, E&ICT, IIT Roorkee.
- Attended a five-day short-term course on Image Processing Algorithm and Application, 13-17 June 2016, IIT (ISM) Dhanbad.
- Attended an AICTE-sponsored faculty development program, 1-5 January 2007, BMAS Engineering College, Agra.
- Attended a faculty development program on Teaching Learning Strategies, 15-27 May 2006, Hindustan College of Science and Technology, Farah, Mathura.
- Attended the National Seminar on Artificial Intelligence (NSAI-07), 28-29 April 2007, Department of Computer Science, Hindustan College of Science and Technology, Farah, Mathura.
- Attended “Scientific Computing in Biomedical Engineering,” organized by the Departments of Computer Science & Engineering and Bio Tech, sponsored by DST, DIT, DBT, 30-31 August 2008, Hindustan College of Science and Technology, Mathura.
- Attended a workshop on “Application of MATLAB in Teaching and Research,” organized by the Department of Electronics and Telecommunication, 29-30 April 2006, CSE, Hindustan College of Science and Technology.

- Attended a workshop on LaTeX: The Language of Scientific Writing (LaTeX-2012), 17-18 March 2012, Department of Computer Science and Information Technology, HITM Agra.
- Successfully completed training in the IBM SEED Program (Rational Software Architect), 12-16 December 2012, HCST.
- Attended a one-week interdisciplinary national workshop on Computer Skill Development and Training Programme (CSDTP-2014), 6-10 March 2014, Department of Computer Science and Application, Govt. Maharaja Autonomous College, Chhatarpur (M.P.).
- Participated in the Technology Conclave Delhi 2011, Siri Fort, New Delhi, December 2011.
- Attended the National Workshop on “Emerging Trends in Information Retrieval” (ETIR-2014), 27 September 2014, Department of Computer Engineering and Application, GLA University, Mathura (U.P.).
- Participated in the 10th All India Students Conference on Science and Spiritual Quest (AISSQ), 2016.
- Attended a workshop on “How to Teach C: Fundamentals and Advanced C,” 22 October 2010, CSE, HCST.
- Attended a workshop on Understanding Data Structure using C, 26 September 2011, CSE, HCST.

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Professional Memberships

- IEEE (Institute of Electrical and Electronics Engineers)
- IETE — Corporate Member (Institution of Electronics and Telecommunication Engineers)
- IAENG (International Association of Engineers)