



DR. PRITEE KHANNA

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*Computer Science & Engineering Discipline,
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Areas of Interest

Machine Learning and Deep Learning for Image Processing and Computer Vision, with applications in Biomedical Image Analysis, Biometrics, Precision Agriculture, and Environmental Monitoring.

Education

- **Ph.D.**, Department of Computer Science & Applications, Kurukshetra University, Kurukshetra, India, 2004.
- **MCA**, Department of Computer Science and Applications, Kurukshetra University, Kurukshetra, India, 1998.
- **MSc (Physics) Specialization in Electronics & Hardware**, Christ Church College, Kanpur University, Kanpur, India, 1990.

Working Experience

Total Work Experience: 28 years (approx.)

- Working as Professor, Computer Science & Engineering at PDPM Indian Institute of Information Technology, Design & Manufacturing (IIITDM) Jabalpur since July 2021.
- Worked as a Researcher at Tokyo Institute of Technology, Japan under JSPS Long Term Invitational Fellowship for Research in Japan, May 2011-January 2012.
- Worked as Associate Professor at IIITDM Jabalpur, June 2009 – July 2021.
- Worked as Assistant Professor at IIITDM Jabalpur, January 2006 - May 2009.
- Worked as Lecturer, Department of Computer Science & Applications, Kurukshetra University, Kurukshetra, August 2004 - December 2005.
- Worked as Lecturer, Computer Science, University College, Kurukshetra, July 2003 - August 2004.
- Worked as Senior Research Fellow (UGC) in the Department of Computer Science & Applications, Kurukshetra University, November 2002 - June 2003.
- Worked as Junior Research Fellow (UGC) in the Department of Computer Science & Applications, Kurukshetra University, November 2000 - October 2002.
- Worked as Lecturer, Computer Science at University College, Kurukshetra, 1998-2000.
- Worked as Lecturer of Computer Applications at Dr. Virender Swaroop Institute of Computer Science, Kanpur from July 1998 - October 1998.

- Worked as Engineer Trainee at the IT Department of LML Ltd., Kanpur (January-June 1998).

Scholastic and Professional Achievements

- Senior Member, IEEE.
- **Action Editor**, Neural Networks Journal, Elsevier, January 2025 onwards.
- **Associate Editor**, Computers & Electrical Engineering Journal, Elsevier, December 2023 onwards.
- **Associate Editor**, Engineering Applications of Artificial Intelligence, Elsevier, November 2022 onwards.
- **Associate Editor**, SN Computer Science, Springer, March 2022 onwards.
- **Member, University Court**, Guru Ghasidas Vishwavidyalaya, September 17, 2025 onwards for 3 years.
- **Member, Board of Studies**, Banasthali Vidyapith, Rajasthan, October 2023 onwards.
- **Member, Board of Studies**, Artificial Intelligence and Data Science Department, Jabalpur Engineering College, RGPV Bhopal, November 2021 onwards.
- **Member, Board of Studies**, Computer Science Department, Jabalpur Engineering College, RGPV Bhopal, July 2018 onwards.
- **General Co-Chair**, 8th International Conference on Computer Vision and Image Processing (CVIP 2023), IIT Jammu, India, November 3-5, 2023.
- Secured 2nd rank in the school in High School (U.P. Board).
- Bagged UP Government Scholarship for attaining merit position in High School.
- Secured 1st rank in the college in 10+2 (U.P. Board).
- Ranked among the top 5% in college and university.
- Qualified **National Eligibility Test (NET)** with **Junior Research Fellowship (JRF)** (June 1999) conducted by University Grants Commission (UGC), Government of India.
- Selection as Lecturer, Govt. Colleges (HES-II) through HPSC, Haryana.
- Awarded **Long Term JSPS Invitation Fellowship** for Research with Prof. Haruo Yokota at Tokyo Institute of Technology Japan, May 2011-January 2012.
- Awarded **Certificate of Merit** for the paper “*Recognition of Single Handed Sign Language Gestures using Contour Tracing Descriptor*” at International Conference of Computational Intelligence and Intelligent Systems (ICCIIS 2013) in the World Congress on Engineering (WCE 2013), July 3 - 5, 2013, London, U.K.
- **Best Paper Award** to the paper “*A framework to plot and recognize hand motion trajectories towards development of non-tactile interfaces*” at the 7th IEEE International Conference on Intelligent Human Computer Interaction (IHCI 2015), December 14-16, 2015.
- Chosen for 'Marquis Who's who in the World 2015.
- **Guest Editor**, Virtual Special Issue on “Pattern Recognition Techniques for Non-Verbal Human Behavior”, Pattern Recognition Letters, Elsevier, 2017.
- Awarded **Certificate of Merit** for the paper “*Fractional Order Filter based Enhancement of Digital Mammograms*” at International Conference on Signal Processing and Imaging Engineering (ICSPIE 2017) under 25th World Congress on Engineering and Computer Science 2017 (WCECS 2017), Oct 25-27, 2017, San Francisco, USA.
- **Guest Editor**, Special Issue on "Computational Intelligence for Biomedical Data and Imaging" in ACM Transactions on Multimedia Computing, Communications, and

Applications (ACM TOMM), Dec 2018.

- **Guest Editor**, Special Issue on “Computational Intelligence Methods for Brain-Machine Interfacing or Brain-Computer Interfacing”, Computational and Mathematical Methods in Medicine, Hindawi, September 2019.
- **Guest Editor**, “Proceedings of 3rd International Conference on Computer Vision and Image Processing”, Vol I and Vol II in Advances in Intelligent Systems and Computing Series Vol 1022 (November 2019) and Vol 1024 (September 2019), Springer.
- **Co-chair**, special session on “Soft Computing: Current Trend of Machine Learning in Computer Net” in 2019 IEEE International Conference on Systems, Man, and Cybernetics (SMC) from October 6- 9, 2019, Bari, Italy.
- **Best Paper Award** to the paper “Glaucoma Detection using Fuzzy C-means Optic Cup Segmentation and Feature Classification” in Signal, Image, and Video Processing track at IEEE Conference on Information and Communication Technology (CICT 2019), Dec 06-08, 2019, IIT Allahabad, India.
- **Track Chair**, Signal, Image, and Video Processing at 2019 IEEE Conference on *Information and Communication Technology* (CICT 2019), at IIT Allahabad, Prayagraj, India, December 6-8, 2019.
- **Guest Editor**, Special Issue on “Artificial Intelligence and Deep Learning for Biomedical Applications”, Multimedia Tools and Processing, Springer, January 2020.
- **Track Chair**, “Image processing and Computer Vision” at International Conference on *Machine Vision and Augmented Intelligence* (MAI 2021), at IITDM Jabalpur, India, February 11-14, 2021.
- **Guest Editor**, Special Issue on “Human-Centered Computational Intelligence Information Systems”, Mobile Information Systems, Hindawi, February 2022.
- **Chair**, Special session on “Challenging Deepfake through Explainable AI” in the 29th International Conference on Neural Information Processing (ICONIP 2022) organized in India during Nov 22-26, 2022.
- Part of organizing team of many institute/university level academic, cultural & sports events.
- Coach of students’ teams for ACM Programming Contest – Asia Region during 2006-2012.

Publications

Published more than 130 papers in International Journals and Conferences of repute.

Book and Book Chapters Published

- *Khanna Pritee*, “Geometric Modelling of Statically and Dynamically Symmetric Patterns, Theory, Generation, and Applications”, VDM Publishing House Ltd., VDM Verlag Germany, 2009, ISBN: 978-3-639-21108-5.
- *Bidyut B. Chaudhuri, Masaki Nakagawa, Pritee Khanna, Sanjeev Kumar*: Proceedings of 3rd International Conference on Computer Vision and Image Processing - CVIP 2018, Jabalpur, India, September 29 - October 1, 2018, Volume 1 (ISBN 978-981-32-9087-7) and Volume 2 (ISBN 978-981-32-9290-1). Advances in Intelligent Systems and Computing 1022, Springer 2020.
- *Mishra Shiwangi and Khanna Pritee*, “Impact of Region atrophy on Alzheimer’s disease and its identification using 3D-texture analysis” In Modelling and Analysis of Active Biopotential Signals in Healthcare-Volume 1, IOP Publishing UK, August 2020, ISBN: 978-0-7503-3279-8ch15.

- *Kaur Harkeerat and Khanna Pritee*, “Cancelable Biometric Systems from Research to Reality: The Road Less Travelled” In *AI and Deep Learning in Biometric Security: Trends, Potential and Challenges*, CRC Press-Taylor and Francis, USA, 2021, ISBN: 978-0-367-42244-8.
- Raman, Balasubramanian, Harkeerat Kaur, Sanjeev Kumar, Vinit Jakhetiya, Puneet Goyal, and Pritee Khanna, eds. *Computer Vision and Image Processing: 8th International Conference, CVIP 2023, Jammu, India, November 3-5, 2023, Revised Selected Papers, Part I* (ISBN 978-3-031-58180-9), *Part II* (ISBN 978-3-031-58173-1) and *Part III* (ISBN 978-3-031-58534-0). *Communications in Computer and Information Science* 2009, 2010, 2011 Springer Nature, 2024.

Patents and Copyrights

1. Das Broteen, Suryawanshi Tejas, Chakraborty Anagh, Ghosh Spandan, Patel Maitrek, Utso Anwarul Islam, Gavhad Varad, Yadav Anshika, Fulper Shivansh, Pandey Harsh, Khanna Pritee, and Tandon Puneet, “A Handheld Device for Autonomous and Proactive Dental Health Check-Up”, Patent Application No. 202521079920 A, Filed on August 22, 2025, Published on September 5, 2025 [Applicant: PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur].
2. Sahith Vutukuri, Khanna Pritee, Chachad Ovee, Shah Khusmi, Y. Madhuri, Sriram Srija, Sini Lal Aiswarya, Garg Shanu Priya, and Chandolu Manish, “An Augmented Reality Based System for Individuals with Physical Disabilities”, Patent Application No. 202421104574 A, Filed on December 30, 2024, Published on July 25, 2025 [Applicant: PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur].
3. Khare Nishant, Doshi Viral, Khanna Pritee, Periasamy Thanapandi, Singh Astha, Jain Samir, and Ojha Aparajita, “An AI-Based Adaptive System for Image Retrieval and Organization”, Patent Application No. 202521021818 A, Filed on March 11, 2025, Published on June 20, 2025 [Applicant: PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur].
4. Walia Gurjit Singh, Pratap Ajay, Meena Rajni, Khanna Pritee, Ojha Aparajita, Rathor Vijaypal Singh, Tamrakar Deepti, Jain Indu, and Arif Mohammed, “A Method for Assessing Multifactor User Authentication Mechanism on Smart Devices”, Patent Application No. 202511046500, Filed on May 14, 2025 [Applicant: Defence Research & Development Organisation (DRDO)].
5. Thakur Poornima Singh, Pasunuri Adithya Vardhan, Jangid Ritik, Dutta Arsh, Jain Samir, Mishra Satya Saurabh, Kalambe Sandesh Pramod, Shrivastava Apurv Prakash, Kabi Mitrup, Khanna Pritee, Gupta Vijay Kumar, Sheorey Tanuja, and Ojha Aparajita, “A System and Method for Crop Monitoring and Real-Time Disease Detection using AI And Blockchain”, Patent Application No. 202521056523, Filed on June 12, 2025 [Applicant: PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur].
6. Walia Gurjit Singh, Pratap Ajay, Meena Rajni, Khanna Pritee, Ojha Aparajita, Tamrakar Deepti, Arif Mohammed, Doshi Keyur, and Kumar Shubham “System and Method for Assessment of Remote Authentication Mechanism for Smart Devices” [patent document submitted to Defence Research & Development Organisation (DRDO)].
7. Pratap Ajay, Meena Rajni, Walia Gurjit Singh, Khanna Pritee, Rathor Vijaypal Singh, Tamrakar Deepti, and Arif Mohammed, “Static and Continuous Physical Multi-Factor Authentication (SCP-MFA) Android App”, Indian Copyright Office, Registration Number

SW-19985/2025, Registered on January 3, 2025 [Applicant: Defence Research & Development Organisation (DRDO)].

8. Walia Gurjit Singh, Pratap Ajay, Meena Rajni, Khanna Pritee, Ojha Aparajita, Rathor Vijaypal Singh, Tamrakar Deepti, Jain Indu, and Arif Mohammed, “Toolkit for Assessment of Multifactor Authentication Mechanism on Android Devices”, Indian Copyright Office, Registration Number SW-22432/2025-CO, Registered on June 4, 2025 [Applicant: Defence Research & Development Organisation (DRDO)].

Projects

- Principal Investigator, **Techniques and Toolkit for Analysis of Multifactor Authentication**, 2023-25, Awarded by SAG, DRDO, Govt. of India, Rs. 85.2 lacs (with Prof. A. Ojha and Dr. V. S. Rathore).
- Co-Principal Investigator, **Additive Manufacturing and Internet of Things based Flexible Healthcare and Effective Pandemic Management**, 2023-26, Under DST-NSTMIS, Rs. 26.5 Lacs (PI: Prof. Puneet Tandon and Co-PI: Prof. V.K. Gupta).
- Co-Principal Investigator, **Blockchain Technology Enabled Plant Disease Control System**, Design Innovation Centre, IIITDM Jabalpur, January 2022-March 2024, Rs. 3 lakhs (PI: Prof. Aparajita Ojha and Co-PI: Prof. Tanuja Sheorey).
- Co-Principal investigator, **Empowering Girls to Reduce the Gender Gap in IT and ITES Sectors in South Asia Region: Training and E-Content Development Programme awarded via 5th Call for proposal process of Asi@Connect Project**, 2022-23, Under TEIN* Cooperation Center, Republic of Korea, Euro 124,513 (PI: Prof. A. Ojha).
- Co-Principal investigator, **Smart Biometrics AI driven Biometric Privacy**, 2020 – Under Indo-Japan (DST-Japan Society for the Promotion of Science) Cooperative Science Programme (IJCSP) 2020, Rs. 5.56 Lacs (PI: Dr. H. Kaur and Prof. Isao Echizen, NII, Japan).
- Co-Principal investigator, **3D-Mesh Model Steganography and Secure Communication in a Cloud Manufacturing Environment**, Under Indo-Japan (DST-Japan Society for the Promotion of Science) Cooperative Science Programme (IJCSP) 2020, Rs. 5.98 Lacs (PI: Prof. A. Ojha, Prof. Yasushi Yamaguchi, University of Tokyo, Japan).
- Principal Investigator, **Similarity Detection and Process Information Retrieval from Large Part-Drawing Databases of Manufacturing Companies: A Mini Industry 4.0 Solution**, 2019-21, Awarded by alfaTKG India Pvt Ltd, Rs. 8.26 lacs (with Prof. A. Ojha).
- Co-Principal investigator, **Designing CAD System for Identifying Neurodegenerative Diseases using Prediction Model**, 2019-21, Awarded by National Project Implementation Unit, Govt. of India, Rs. 8.59 lacs (with Dr. Shiwangi Mishra).
- Principal Investigator, **Privacy Enhancing Revocable Biometric Identities (PERBI)**, 2016-19, Awarded by Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy, Govt of India, Funding Rs. 30.88 Lacs (Co-PIs: Dr. A. Seal and Dr. M. K. Bajpai).
- Consultant, “Vetting of RPF documents for MEGA TEXTILE PARK PROJECT” for “Jabalpur Smart City Limited”, August 17 - 29, 2017.
- Principal Investigator, Jabalpur District Collectorate Project - **District Collectorate Office – Information Integration**, 2007-08.
- Design and development of an autonomous system “**OATH (Online Academic Transaction Help)**” for “Academic Office” of IIITDM Jabalpur, 2009-10 (in-house project).

- Co-Investigator, Department of Science and Technology (Govt of India) Project - **Geometric Modeling, Analysis and Design for Generic Definitions of Custom-Engineered Cutting Tools**, 2008-11, Rs. 25.26 lacs (PI: Prof. Puneet Tandon and Co-PI: Prof. V.K. Gupta).

Conferences/Workshops/Events Organized

1. Member, Steering Committee, **11th International Conference on Computer Vision and Image Processing (CVIP 2026)**, NIT Calicut, Punjab, India, December 9-12, 2026.
2. Organized a **Faculty Development Programme on “Generative AI for Computer Vision”**, March 9-19, 2026, under E&ICT Academy, IIITDM Jabalpur (Online Mode)
3. Organized a GIAN course with Prof. Aparajita Ojha on “**Security and Threats of Generative AI in Biometric**” by Prof. Kiran Raja, Norwegian University of Science and Technology, during December 18-23, 2025, at IIITDM Jabalpur.
4. Member, Steering Committee, **10th International Conference on Computer Vision and Image Processing (CVIP 2025)**, IIT Ropar, Punjab, India, December 10-13, 2025.
5. Organized a GIAN course with Prof. Puneet Tandon on “**Physics Aware Deep Learning**” by Dr. Stephen Baek, University of Virginia, USA, during February 10-21, 2025, at IIITDM Jabalpur.
6. Conference Convener, **9th International Conference on Computer Vision and Image Processing (CVIP 2024)**, IIITDM Kancheepuram, Chennai, India, December 19-21, 2024.
7. Organized a **Faculty Development Programme on “Deep Learning with Generative AI for Computer Vision”**, November 8-19, 2024, under E&ICT Academy, IIITDM Jabalpur (Online Mode)
8. Organized a **Faculty Development Programme on “Biometrics Security in the Generative AI Era”**, March 1 - March 12, 2024, under E&ICT Academy, IIITDM Jabalpur (Online Mode)
9. General Co-Chair, **8th International Conference on Computer Vision and Image Processing (CVIP 2023)**, IIT Jammu, India, November 3-5, 2023.
10. Organized a **School Teachers Conference on “Unlocking the Power of Girls in Advancing South Asian Region's Development”**, IIITDM Jabalpur, India, June 28, 2023.
11. Organized a **Skill Development Programme on “Artificial Intelligence and Machine Learning”**, June 19-27, 2023 (Online Mode)
12. Organized a **Capacity Building Programme on “Artificial Intelligence and Machine Learning”** March 10 - March 23, 2023 (Online Mode)
13. Organized a Capacity Building Programme for Faculty Members on “ICT Tools for Teaching and Research” December 5-17, 2022 (Online Mode)
14. Conference Convener, **7th IAPR International Conference on Computer vision & image processing (CVIP 2022)**, at VNIT Nagpur, India, November 4-6, 2022.
15. Conference Convener, **6th IAPR International Conference on Computer vision & image processing (CVIP 2021)**, at IIT Ropar, India, December 3-5, 2021.
16. Organized a workshop on “**Healthcare Innovations during COVID Outbreak**” at IIITDM Jabalpur, May 25-26, 2021.
17. Organized an Interactive session on “**How to handle Violence against Women**” by Ms. Jahnavi, Lawyer, MP High Court, IIITDM Jabalpur, India, March 13, 2021.
18. Organized an Interactive session on “**Entrepreneurship and a Birdseye view of the Startup**”

- Ecosystem**” from a Woman Entrepreneur Ms. Preeti Chaudhary, Founder of LinkedIn Local India, IIITDM Jabalpur, India, March 10, 2021.
19. Organized Workshop on **“Self-Defense”** by Mr. Amit Das, IIITDM Jabalpur, India, March 06, 2021.
 20. Organized a Workshop on **“Handling Common Woman Gynecological Problems”** by Dr. Neena Shrivastava, IIITDM Jabalpur, India, March 06, 2021.
 21. Member, Local Organizing Committee, **Machine Vision and Augmented Intelligence (MAI 2021)**, IIITDM Jabalpur, India, February 11-14, 2021.
 22. Member, Organizing Committee, **7th International Conference on Algorithms and Discrete Applied Mathematics (CALDAM 2021)**, IIT Ropar, India, February 11-13, 2021.
 23. Conference Convener, **5th IAPR international conference on Computer vision & image processing (CVIP 2020)**, at IIT Allahabad, India, December 4-6, 2020.
 24. Member, Organizing Committee, **6th International Conference on Algorithms and Discrete Applied Mathematics (CALDAM 2020)**, IIT Hyderabad, India, February 13-15, 2020.
 25. Organized **“Design Workshop 2019 (DeW 2019)”** at IIITDM Jabalpur in collaboration with the Ministry of Foreign Affairs, Japan, March 8 - 10, 2019.
 26. Organized **“Third International Conference on Computer Vision & Image Processing (CVIP 2018)”** at IIITDM Jabalpur, September 29-October 1, 2018. The conference was endorsed by IAPR and proceedings are to be published by Springer.
 27. Organized an Interactive Session with Dr. Rooplekha Chauhan, Leading Gynecologist, Jabalpur Medical College, IIITDM Jabalpur, India, March 08, 2018.
 28. Organized a GIAN course on **“Data Mining Algorithms for Graph, Text, and Streaming Data”** at IIITDM Jabalpur, December 19-27, 2017.
 29. Organized **“Design Workshop 2017 (DeW 2017)”** at IIITDM Jabalpur in collaboration with Ministry of Foreign Affairs, Japan, December 9-11, 2017.
 30. Organized a Faculty Development Programme on **“Fundamentals of Databases”** at IIITDM Jabalpur, June 23-July 3, 2017.
 31. Organized a workshop on **“Self Defense”** at IIITDM Jabalpur, March 08, 2017.
 32. Organized a Faculty Development Programme on **“Advanced data Mining Algorithms and their Scalability for Big Data”** from January 2-7, 2017.
 33. Organized a Faculty Development Programme on **“Basic data Mining Algorithms and their Scalability for Big Data”** from August 16- 21, 2016.
 34. Organized **“National Conference on Smart Cities (NCSC 2016)”**, November 25-26, 2016.
 35. Organized an Interactive session on **“Entering Adulthood”** with Dr. Shirish Jamdar (gynecologist, educationist and social worker) and Ms. Kiran Kalway (Director Jabalpur Branch, Family Planning Association of India), IIITDM Jabalpur, India, March 10, 2016.
 36. Organized a Workshop on **“Fights against Sexual Crimes and Gender Discrimination”**, IIITDM Jabalpur, India, January 15, 2016.
 37. Organized a Workshop on **“Menstrual Hygiene Drive”**, IIITDM Jabalpur, India, October 10, 2015.
 38. Organized a Pre-placement workshop on **“Programming, Technical & Personal Skills for Campus Interviews”** from October 18-20, 2013.
 39. Organized a workshop on **“Emerging Trends in Information Technology in University Management”** at IIITDM Jabalpur, September 09-13, 2013.

40. Organized **six** workshops, each of four days duration on “**Computer Training for Jabalpur Collectorate Officers and their Assistants**” at IIITDM Jabalpur, during September 19, 2012-February 23, 2013.
41. Organized a workshop on “**Programming**”, at IIITDM Jabalpur, January 27-29, 2013.
42. Organized a three-day workshop on “**Wavelets and its Applications (WOW 2012)**”, at IIITDM Jabalpur, July 13-15, 2012.
43. Organized a three-day workshop on “**Sharpen Your Programming Skills**”, at IIITDM Jabalpur, November 5-7, 2011.
44. Organized **inaugural Raman Distinguished Lecture Series by Dr. Anil Kakodkar**, Former Chairman, DAE, at IIITDM Jabalpur, March 17, 2010.
45. Organized a two-day workshop on “**e-Governance - with specific reference to Policing**” at IIITDM Jabalpur, August 9-10, 2007.
46. Organized a two-day workshop on “**DBMS and Java Application Software package**”, at IIITDM Jabalpur, August 6-7, 2007.

Expert Lectures and Session Chairing

1. Delivered expert lectures on “Restricted Boltzmann Machine and Deep Belief Network” and “Flow-based and Energy-based Models” at the Faculty Development Programme on “Generative AI for Computer Vision”, IIITDM Jabalpur, India, March 9 -19, 2026.
2. Delivered a plenary lecture on “Deepfakes” at “International Conference on Intelligent, Sustainable, Social, and Secure Computing (ICISSSC-2025)”, Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, India, December 29-30, 2025.
3. Chaired a session at the 10th International Conference on Computer Vision and Image Processing (CVIP 2025), IIT Ropar, India, December 10-13, 2025.
4. Delivered an expert lecture on “Computer-Aided Diagnostics for Retinopathy” at the Faculty Development Programme on “Recent Advancement in Deep Learning Architectures (RADA-2025)”, NIT Kurukshetra, India, November 13-19, 2025.
5. Delivered an expert lecture on “Approaches for Retinopathy Detection” at the Faculty Development Programme on “Digital Healthcare: Innovations and Applications”, ABV-Indian Institute of Information Technology and Management Gwalior, India, November 5-9, 2025.
6. Delivered an expert lecture on “Biometric Breakthroughs: Trends, Tech, and Tomorrow” at Shoolini University, Kumarhatti, Himachal Pradesh, India, September 26, 2025.
7. Delivered an expert lecture on “Healthcare in the Age of AI” at the IEEE Madhya Pradesh Section Conference 2025 (MPCON 2025) on The AI Revolution – Redefining Global Progress, at Shri Ram Institute of Technology, Jabalpur, India, August 29-30, 2025.
8. Delivered an expert lecture on “Challenges and Best Practices in AI Adoption for Academic Institutions” at a workshop on “AI and ICT Tools for the Next Generation Educators and Researchers”, Unity PG College, Lucknow, April 21-26, 2025.
9. Delivered an expert lecture on “Convolutional Neural Networks” at the Faculty Development Programme on “Explainable AI in Computer Vision for Precision Agriculture”, IIITM Gwalior, April 23-30, 2025.
10. Delivered an expert lecture on “Deep Learning for Diabetic Retinopathy in Fundus Images” under DBT-sponsored popular lecture series on AI Applications in Diagnosis and Treatment, KVCET Chennai, March 8, 2025.

11. Delivered expert lectures on “Biometric System Evaluation” and “Deepfake Generation and Detection” at the Faculty Development Programme on “Biometric Security in the Generative AI Era”, IIITDM Jabalpur, March 1-12, 2025.
12. Delivered an expert talk and demo on “Techniques and Toolkit for Analysis of Multifactor Authentication” at the user workshop at Scientific Analysis Group, DRDO, New Delhi, February 17-21, 2025.
13. Delivered expert lectures on “CNN Models”, “Autoencoders”, and “Deepfakes” at the Faculty Development Programme on AI and Deep Learning, IIITDM Jabalpur, Feb 1-23, 2025.
14. Delivered an expert lecture on “Automated Grading and Lesion Segmentation for Diabetic Retinopathy: Grading and Segmentation in Fundus Images” at the Faculty Development Programme on “Advancements in Machine Learning and Deep Learning for Medical Image Analysis”, Baderia Global Institute of Engineering & Management, Jabalpur, India, February 18- 22, 2025.
15. Delivered expert lectures on “Convolutional Neural Networks” and “Autoencoders” at the Faculty Development Programme on “Deep Learning with Generative AI for Computer Vision”, IIITDM Jabalpur, November 8-19, 2024.
16. Delivered an expert lecture on “Encoder Decoder Models for Image Segmentations” at Short Term course on Machine Intelligence and Vision Algorithms (MIVA 2024), NIT Kurukshetra, Sept 12-16, 2024.
17. Delivered expert lectures on “Biometric System Evaluation” and “Deepfake Generation and Detection”, at Faculty Development Programme on “Biometrics Security in the Generative AI Era”, IIITDM Jabalpur under E&ICT Academy, March 1 - 12, 2025 (Online Mode).
18. Delivered an expert lecture on “Data Preprocessing” at the Faculty Development Program on "Machine Learning for Business Intelligence", School of Computer Science & Engineering in collaboration with UGC-Malviya Mission Teacher Training Centre-SMVDU, February 28 – March 5, 2024.
19. Chaired a session at 8th International Conference on Computer Vision and Image Processing (CVIP 2023), IIT Jammu, India, November 3-5, 2023.
20. Delivered an expert lecture on “Cross-pollination of Ideas and Solutions with Artificial Intelligence” at a refresher course in Information Technology under the theme "Bridging Horizons: Integrating IT Innovations across Disciplines", Kurukshetra University, October 26 - November 8, 2023.
21. Delivered an expert lecture on “Deep Learning Architectures for Intelligent Vision” at STC on Computer Vision and Intelligent Applications (CVIA-2023), NIT Kurukshetra, August 11-16, 2023.
22. Delivered an expert lecture on “Deep Learning and Convolutional Neural Network” at Skill Development Program on "Artificial Intelligence and Machine Learning", PDPM IIITDM Jabalpur, June 19-27, 2023.
23. Delivered an expert lecture on “Database, Database Design, and Query Languages” at Capacity Building Program on "Data Science", PDPM IIITDM Jabalpur, May 19-June 1, 2023.
24. Delivered an expert lecture on “AI and Biometrics” at Fourth Faculty Development Programme on Innovations and Research Trends in Artificial Intelligence, Banasthali Vidyapith, March 13-18, 2023.

25. Delivered an expert lecture on “CNN Architectures for Computer Vision” at Faculty Development Program on “Deep Learning in Image Processing and Pattern Recognition”, Central University of Rajasthan, March 13-22, 2023.
26. Delivered an expert lecture on “Deep Learning Applications and Research Areas” at Faculty Development Program on “Deep Learning in Image Processing and Pattern Recognition”, Central University of Rajasthan, March 13-22, 2023.
27. Delivered an expert lecture on “Deep Learning, Deep Neural Networks, and Convolutional Neural Network” at Capacity Building Program on "Artificial Intelligence and Machine Learning", PDPM IIITDM Jabalpur, March 10-23, 2023.
28. Delivered an expert lecture on “CNN Architectures, Encoder Decoder Models for Image Segmentations” at Capacity Building Program on "Artificial Intelligence and Machine Learning", PDPM IIITDM Jabalpur, March 10-23, 2023.
29. Delivered an expert lecture as Chief Guest on “Importance of Machine Learning” at One Week National Level Online Faculty Development Program on the topic “Societal Applications of Machine Learning”, Shri Vishnu Engineering College for Women (A), Bhimavaram, India, December 26-30, 2022.
30. Delivered an expert lecture on “Biometrics – Past, Present, and Future” at the Research Meeting, Delhi University, Delhi, India, December 21, 2022.
31. Delivered an expert lecture on “AI in Biometrics” at AICTE ATAL FDP/CPDP on the topic “Advances in Artificial Intelligence”, Indian Institute of Information Technology, Allahabad, India, October 31-November 11, 2022.
32. Delivered an expert lecture on “Autoencoders” at Faculty Development Program on Research Avenues in Machine Learning and AI for Societal Issues, NIT Silchar, Assam, India, March 14-18, 2022.
33. Delivered an expert lecture on “AI for Biomedical Image Analysis” at Faculty Development Program on Research Trends in Artificial Intelligence, Banasthali Vidyapith, Rajasthan, India, February 21-26, 2022.
34. Delivered an expert lecture on “Biometric Template Protection” at IEEE Signal Processing Society Winter School on Advances in Biometrics, Indian Institute of Information Technology, Allahabad, India, October 23-28, 2021.
35. Delivered an expert lecture on “CNN Architectures for Computer Vision” at e-Workshop on Recent Advancements in Artificial Intelligence and Internet of Things (RAAI-2021), Department of Mathematics & Scientific Computing, National Institute of Technology, Hamirpur, India, September 25-29, 2021.
36. Delivered an expert lecture on “Application of machine Learning for Computer Vision” at National Level Online FDP on “Applications of Machine Learning in Computer Vision”, Shri Vishnu Engineering College for Women, AP, India, June 15-19, 2021.
37. Delivered a keynote address on “Computer Vision in Healthcare: Medical Image Processing” at National Conference on "Unprecedented and Advanced Concepts of Computer Vision", Global Group of Institutions, Jabalpur, India, May 11-12, 2021.
38. Delivered an expert lecture on “Biometric Systems: Applications and Challenges” at National Seminar on New Trends in Signal Processing (NeTSiP-2021), DA-IICT, Gandhinagar, India, March 19-21, 2021.
39. Chaired a session at the International Conference on Machine Vision and Augmented Intelligence (MAI - 2021), at IIITDM Jabalpur, India, February 11-14, 2021.

40. Delivered a webinar on “Career Counselling” at IGE College, Sagar, India, Jan 15, 2021.
41. Delivered an expert lecture on “Deep Learning in Medical Image Processing” at Short Term Training Program on "Research Aspects on Deep Learning in Image and Video Processing", Velammal Institute of Technology, Chennai, India, Jan 4-9, 2021.
42. Chaired a session at 5th IAPR international conference on Computer vision & image processing (CVIP 2020), at IIIT Allahabad, Prayagraj, India, December 4-6, 2020.
43. Delivered an expert lecture on “AI in Medical Image Processing” at e-Workshop on Mathematical and Statistical Methods for Machine Learning (MSML-2020), Department of Mathematics & Scientific Computing, National Institute of Technology, Hamirpur, India, November 7-11, 2020.
44. Delivered an expert lecture on “Medical Image Analysis” at Faculty Development Program on "Data Analytics: Present and Future", Department of Information Technology & Computer Application, Madan Mohan Malaviya University of Technology Gorakhpur, India, October 12-16, 2020.
45. Delivered an expert lecture on “Biometrics – A Double-Edged Sword” at IEEE Day Webinar Series, IEEE Bangalore Section on the invitation of GSSS Institute of Engineering & Technology for Women, Mysuru, India, October 5-9, 2020.
46. Delivered an invited talk on “Computer Vision – Applications and Challenges”, at National Webinar organized by MGMM, Jabalpur, India, May 30, 2020.
47. Delivered an invited talk on “CAD Systems for Ophthalmological Disease Identification” at International Conference on Engineering, Mathematical and Computational Intelligence (ICEMCI 2019), Jabalpur Engineering College, Jabalpur, India, December 21-23, 2019.
48. Chaired a session at 2019 IEEE Conference on Information and Communication Technology (CICT 2019), at IIIT Allahabad, Prayagraj, India, December 6-8, 2019.
49. Chaired a session at 4th International Conference on Computer Vision and Image Processing (CVIP 2019), MNIT Jaipur, India, September 27-29, 2020.
50. Delivered an invited talk on “Image and Vision Engineering Research @ IIITDM Jabalpur” at Nosov Magnitogorsk State Technical University, Magnitogorsk, Russia, June 5, 2019.
51. Delivered a keynote address on “Biometric Security” at National Seminar on Recent Trends in Artificial Intelligence Computing, HCET, Jabalpur, India, March 30, 2019.
52. Delivered expert lecture on “Security of Biometrics” at AICTE - QIP STC on Trends and Techniques on Image Processing, Multimedia and Security Issues, MITS, Gwalior, India, March 15-19, 2019.
53. Delivered a keynote address on “Intelligent Computing in Computer Vision” at National Conference on Recent Trends in Intelligent Computing, Department of Computer, Information Technology and Communication of Shri Ram Group, Jabalpur, India, February 7-8, 2019.
54. Chaired a session at the 2018 Conference on Information and Communication Technology (CICT 2018), at IIITDM Jabalpur, India, October 26-28, 2018.
55. Delivered a keynote address on “Advances in Biometric Security” at International Conference on Recent Advances in Computer Science, Mathematics, Physics and Electronics, MGMM, Jabalpur, India, October 3-4, 2018.
56. Delivered a keynote address on “Internet of Things, Big Data, and Security Challenges” at the National Workshop on the Internet of Things, Department of Computer Engineering, Institute of Engineering, MET Bhujbal Knowledge City, Nasik, India, January 12, 2018.

57. Chaired a session at International Conference on Electrical Engineering and Applications (ICEEA III) 2017 organized under World Congress on Engineering and Computer Science 2017 (WCECS 2017) San Francisco, USA, October 25-27, 2017.
58. Chaired a session at International Conference on Circuits and Systems (ICCS-I) 2017 organized under World Congress on Engineering and Computer Science 2017 (WCECS 2017) San Francisco, USA, October 25-27, 2017.
59. Chaired a session at 2nd International Conference on Computer Vision and Image Processing & Workshop on Multimedia (CVIP 2017), Greater Noida Extension Center, IIT Roorkee, India, September 9-12, 2017.
60. Delivered a keynote address on “Innovations in Vision-Based Technologies & Applications” at National Conference on Smart and Innovative Technologies in Engineering and Sciences (SITES 2016), Jabalpur, India, November 11-12, 2016.
61. Chaired a session at the IEEE 7th International Conference on Computational Intelligence and Communication Networks (CICN 2015), Jabalpur, India, December 12-14, 2015.
62. Delivered an expert lecture on “Advances in Medical Imaging and Image Analysis” for a symposium on “Trends in Computer Vision” and chaired a session at 102nd Indian Science Congress at the University of Mumbai, January 3-7, 2015.
63. Chaired a session at IEEE 9th International Conference on Industrial and Information Systems (ICIIS 2014), at AVV IIITM Gwalior, India, December 15-17, 2014.
64. Delivered an expert lecture on “Image Processing with MATLAB” during the 4th National Workshop on Application of MATLAB for Engineering Computations (AMEC 2014) at IIITDM Jabalpur, December 1-5, 2014.
65. Delivered an expert lecture on “Content-Based Image Retrieval” during the “National Conference of Engineering and Applied Sciences” at Jabalpur Engineering College, Jabalpur, March 22-23, 2013.
66. Delivered an expert lecture on “Wavelets” during National Workshop on Wavelets and its Applications (WoW 2012) at IIITDM Jabalpur, July 13-15, 2012.
67. Delivered an expert lecture on “Content-Based Image Retrieval” at Sugiyama Lab, Tokyo Institute of Technology, Japan, June 2011.
68. Delivered a keynote address on “Technical Performance testing of Biometric Systems” at National Workshop on Recent Trends in Software Engineering (RTSE 2009), Jabalpur Engineering College, Jabalpur, March 06-07, 2009.
69. Delivered a keynote address on “Biometric Technologies for Security” and chaired a session at the National Conference on Futuristic Trends in Engineering and Technology, JNC DLM College of Engineering, Sirsa, India, January 28-29, 2008.
70. Delivered a keynote address on “Biometrics: An overview of Challenges ahead” and chaired a session at National Conference on IT: Present Practices and Challenges at New Delhi, India, August 31-September 01, 2007.

Reviewer to International Journals and Conferences

1. *IEEE Transactions on Cybernetics.*
2. *IEEE Transactions on Medical Imaging.*
3. *IEEE Transaction on Mobile Computing.*
4. *IEEE Transaction on Multimedia.*
5. *IEEE Transactions on Systems, Man and Cybernetics: Systems.*

6. *ACM Transactions on Management Information Systems*.
7. *ACM Transactions on Multimedia Computing Communications and Applications*.
8. *Engineering Applications of Artificial Intelligence, Elsevier*
9. *Artificial Intelligence in Medicine, Elsevier*.
10. *Biomedical Signal Processing and Control, Elsevier*.
11. *Computer Methods and Programs in Biomedicine, Elsevier*.
12. *Future Generation Systems, Elsevier*.
13. *Journal of Visual Languages and Computing, Elsevier*.
14. *Journal of Visual Communication and Image Representation, Elsevier*.
15. *Pattern Recognition Letters, Elsevier*.
16. *Signal Processing: Image Communication, Elsevier*.
17. *Circuits, Systems & Signal Processing, Springer*.
18. *Multimedia Tools and Applications, Springer*.
19. *Neural Computing and Applications, Springer*.
20. *Connection Science, Taylor & Francis*.
21. *IET Biometrics*.
22. *IET Computer Vision*.
23. *Journal of the Optical Society of America*.
24. *Brain and Behavior, Wiley*.
25. *Journal of Electronic Imaging, SPIE*.
26. 10th IAPR International Conference on Computer Vision & Image Processing (CVIP 2025), IIT Ropar, Punjab, India, December 10-13, 2025.
27. 4th IEEE International Conference on Computer Vision and Machine Intelligence (CVMI 2025), NIT Rourkela, Odisha, India, October 12-13, 2025.
28. 9th IAPR International Conference on Computer Vision & Image Processing (CVIP 2024), IITDM Kancheepuram, Chennai, India, December 19-21, 2024.
29. 3rd IEEE International Conference on Computer Vision and Machine Intelligence (CVMI 2024), IIIT Allahabad, Prayagraj, India, October 19-20, 2024.
30. 8th IAPR International Conference on Computer Vision & Image Processing (CVIP 2023), IIT Jammu, India, November 3-5, 2023.
31. 7th IAPR International Conference on Computer Vision & Image Processing (CVIP 2022), VNIT Nagpur, India, November 4-6, 2022.
32. 6th IAPR International Conference on Computer vision & image processing (CVIP 2021), IIT Ropar, India, December 3-5, 2021.
33. 5th International Conference on *Advances in Computing and Data Sciences* (ICACDS-2021), MVP's KBTCOE, Nashik, Maharashtra, India, April 23-24, 2021.
34. 7th International Conference on Algorithms and Discrete Applied Mathematics (CALDAM 2021), IIT Ropar, Punjab, India, February 11-13, 2021.
35. 26th Annual International Conference on Advanced Computing and Communications (ADCOM 2020), NIT Silchar, India, December 16-18, 2020.
36. 5th International Conference on Computer Vision and Image Processing (CVIP 2020), IIIT Allahabad, India, October 16-18, 2020.

37. 2019 Conference on Information and Communication Technology (CICT 2019), IIT Allahabad, India, December 6-8, 2019.
38. 4th International Conference on Computer Vision and Image Processing (CVIP 2019), MNIT Jaipur, India, September 27-29, 2020.
39. 6th International Symposium on *Computer Vision and the Internet* (VisionNet'2019), Kerala, India, December 18 -21, 2019.
40. 3rd International Conference on *Computing and Network Communications* (CoCoNet'19), Trivandrum, Kerala, India, December 18-21, 2019.
41. 14th *Women in Machine Learning Workshop* (WiML 2019), co-located with NeurIPS in Vancouver, British Columbia, December 9, 2019.
42. 14th IEEE International Conference on Automatic Face and Gesture Recognition (FG 2019), Lille, France, May 14-18, 2019.
43. 4th IEEE International Conference on *Recent Advances in Computational Systems* (RAICS 2018), at Trivandrum, Kerala, India, December 6-8, 2018.
44. 2018 Conference on *Information and Communication Technology* (CICT 2018), at IIITDM Jabalpur, India, October 26-28, 2018.
45. 2017 Conference on *Information and Communication Technology* (CICT 2017), at AVV IIITM Gwalior, Gwalior, India, November 3-5, 2017.
46. 3rd International Symposium on *Computer Vision and the Internet* (VisionNet'2016), Jaipur, India, September 21 -24, 2016.
47. 4th International Symposium on *Women in Computing and Informatics* (WCI-2016), Jaipur, India, September 21 -24, 2016.
48. International Conference on *Computer Vision and Image Processing* (CVIP 2016), at Indian Institute of Technology Roorkee, India, February 26 – 28, 2016.
49. 3rd IEEE International Conference on *Image Information Processing* (ICIIP 2015), at Jaypee University of Information Technology Shimla, India, December 21-24, 2015.
50. IEEE *UP Section Conference on Electrical, Computer, and Electronics* (UPCON 2015), at Indian Institute of Information Technology Allahabad, India December 4-6, 2015.
51. 2nd International Symposium on *Computer Vision and the Internet* (VisionNet'2015), Kerala, India, August 10 -13, 2015.
52. 2nd International Conference on *Signal Processing and Integrated Networks* (SPIN 2015), at Amity School of Engineering and Technology, Amity University, Noida- Delhi NCR, India, February 19-20, 2015.
53. 9th IEEE International Conference on *Industrial and Information Systems* (ICIIS 2014), at AVV IIITM Gwalior, Gwalior, India, December 15-17, 2014.
54. International Symposium on *Computer Vision and the Internet* (VisionNet'2014), GCET, at Greater Noida- Delhi NCR, India, September 24-27, 2014.
55. IEEE Students' Technology Symposium, at IIT Kharagpur, India, Feb 28-March 2, 2014.
56. International Conference on *Signal Processing and Integrated Networks* (SPIN 2014), at Amity School of Engineering and Technology, Amity University, Noida- Delhi NCR, India, February 20-21, 2014.
57. IEEE International Conference on *Control, Automation, Robotics & Embedded Systems* (CARE 2013), at PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur, India, December 16-18, 2013.

58. 2nd IEEE International Conference on *Image Information Processing* (ICIIP 2013), at Jaypee University of Information Technology Shimla, India, December 9-11, 2013.
59. 2nd International Conference on *Intelligent Interactive Technologies and Multimedia* (IITM 2013), at IIT Allahabad, India, March 9-11, 2013.
60. 4th International Conference on *Intelligent Human-Computer Interaction* (IHCI 2012), at IIT Kharagpur, India, December 27-29, 2012.
61. International Conference on *Innovations in Design and Manufacturing* (InnDeM 2012), at PDDM IIITDM Jabalpur, India December 5-7, 2012.

Membership of Committees of Professional Societies/Program Committees

1. Senior member IEEE
2. Member, ACM since 2009.
3. A life member IAENG since 2013.
4. A life member IUPRAI since 2019.
5. Member, *International Conference of Computational Intelligence and Intelligent Systems* (ICCIIS) of World Congress on Engineering (WCE) since WCE 2014, IAENG.
6. Member, International Advisory and Technical Committee, 3rd International Conference on Computer Vision and Machine Intelligence (CVMI 2024), IIIT Allahabad, Prayagraj, India, October 19-20, 2024.
7. Member, Technical Program Committee, 4th International Conference on Computing and Network Communications (CoCoNet 23), PES University, Bangalore, India, December 18-20, 2023.
8. Member, Technical Program Committee, 9th International Symposium on Women in Computing and Informatics (WCI'23), PES University, Bangalore, India, December 18-20, 2023.
9. Member, Main Track - Program Committee, EAI International Conference on Block chain cloud computing and Big Data with education (BCBE 2022), Wuxi, People's Republic of China, December 16-18, 2022.
10. Member, Technical program committee, 8th *International Symposium on Computer Vision and the Internet* (VisionNet 2022), Kerala, India, August 31-September 2, 2022.
11. Member, International Advisory Committee, International Conference on Computer Vision and Machine Intelligence (CVMI 2022), IIIT Allahabad, Prayagraj, India, August 12-13, 2022.
12. Member, Technical Program Committee, *IEEE Bombay Section Signature Conference* (IBSSC-2021), IIITM Gwalior, India, November 18-20, 2021.
13. Member, Advisory Committee, *International Conference on Artificial Intelligence: Theory & Applications* (AITA 2021), National Institute of Technology, Patna, India, December 23-24, 2021.
14. Member, Advisory Committee, *IEEE Mysore Sub Section Flagship International Conference* (MysuruCon 2021), Novkis College of Engineering, Hassan, Karnataka, India, October 24-25, 2021.
15. Member, Technical Program Committee, *International Conference on "Computer Vision, High-Performance Computing, Smart Devices and Networks* (CHSN 2021), JNTU Kakinada, India, August 20-21, 2021.
16. Member, Technical Program Committee, *International Conference on Intelligent Cyber-Physical Systems* (ICPS 2021), IIIT Kota, India, June 24-26, 2021.

17. Member, Technical Program Committee, *5th International Conference on Advances in Computing and Data Sciences (ICACDS-2021)*, MVP's KBTCOE, Nashik, Maharashtra, India, April 23-24, 2021.
18. Member, Technical Program Committee, *26th Annual International Conference on Advanced Computing and Communications (ADCOM 2020)*, NIT Silchar, India, December 16-18, 2020.
19. Member, Technical program committee, *7th International Symposium on Computer Vision and the Internet (VisionNet 2020)*, Chennai, India, October 14-17, 2020.
20. Member, Advisory Committee, *4th Conference on Information and Communication Technology (CICT 2020)*, IIITDM Kancheepuram, Chennai, India, December 3-5, 2020.
21. Member, Technical Program Committee, *Fifth International Conference on Computer Vision and Image Processing (CVIP 2020)*, IIIT Allahabad, India, October 16-18, 2020.
22. Member, Technical Program Committee, Advisory Committee, international conference on "Computer Vision, High-Performance Computing, Smart Devices and Networks (CHSN 2020)", JNTU Kakinada, India, May 9-10, 2020.
23. Member, Advisory Committee, *5th International Conference on Science Technology Engineering and Mathematics (ICONSTEM 2020)*, Jeppiaar Engineering College, India, March 20-21, 2020.
24. Member, Advisory Committee, *International Conference on Engineering, Mathematical and Computational Intelligence (ICEMCI 2019)*, Jabalpur Engineering College, Jabalpur, India, December 21-23, 2019.
25. Member, Technical Program Committee, *7th International Symposium on Women in Computing and Informatics (WCI-2019)*, IIITM Kerala, India, December 18-21, 2019.
26. Member, Technical Program Committee, *International Conference on Computing and Network Communications (CoCoNet 19)*, Indian Institute of Information Technology and Management-Kerala (IIITM-K), Trivandrum, Kerala, India, December 18-21, 2019.
27. Member, Technical program committee, *6th International Symposium on Computer Vision and the Internet (VisionNet 2019)*, Kerala, India, December 18-21, 2019.
28. Member, Advisory Committee, *2019 Conference on Information and Communication Technology (CICT 2019)*, IIIT Allahabad, India, December 6-8, 2019.
29. Member, Advisory Committee, *Fifth International Conference on Science Technology Engineering and Mathematics (ICONSTEM 2019)*, Jeppiaar Engineering College, India, March 14-15, 2019.
30. Member, Steering Committee, *2018 Conference on Information and Communication Technology (CICT 2018)*, IIITM Jabalpur, India, October 26-28, 2018.
31. Conference Chair, *Third International Conference on Computer Vision and Image Processing (CVIP 2018)*, IITDM Jabalpur, India, September 29-October 1, 2018.
32. Member, Technical Program Committee, *International Conference on Computing: Communication, Networks, and Security (IC3NS 2018)*, Mody University of Science and Technology Lakshmangarh, Sikar, Rajasthan, India, February 23-24, 2018.
33. Member, Technical Program Committee, *Fifth International Conference on Signal Processing and Integrated Networks (SPIN 2018)*, Noida, India, February 22-23, 2018.
34. Member, Technical Program Committee, *International Conference on Advances in computing and Data Sciences (ICACDS 2018)*, Uttaranchal University, Dehradun, Uttarakhand, India, April 20-21, 2018.
35. Member, Technical Program Committee, *International Conference on Communication*

- Systems and Network Technologies (CSNT 2017), Indian Institute of Information Technology (IIIT), Nagpur, India, November 11-13, 2017.
36. Member, Steering Committee, *Conference on Information and Communication Technology* (CICT 2017), ABV-IIITM Gwalior, India, November 3-5, 2017.
 37. Area Chair, Second International Conference on Computer Vision and Image Processing (CVIP 2017), IIT Roorkee, India, September 09-12, 2017.
 38. Member, Technical Program Committee, *Fourth International Conference on Signal Processing and Integrated Networks* (SPIN 2017), Noida, India, Feb 2-3, 2017.
 39. Member, Technical program committee, 3rd *International Symposium on Computer Vision and the Internet* (VisionNet'2016), Jaipur, India, September 21-24, 2016.
 40. Member, Technical Program Committee, 4th *International Symposium on Women in Computing and Informatics* (WCI-2016), Jaipur, India, September 21 -24, 2016.
 41. Member, Technical program committee, *International Conference on Advances in Computing and Data Sciences* (ICACDS-2016), Ghaziabad, India, November 11-12, 2016.
 42. Member, Technical program committee, 3rd *IEEE International Conference on Image Information Processing* (ICIIP-2015), at Jaypee University of Information Technology Shimla, India, December 21-24, 2015.
 43. Member, Technical program committee, *IEEE UP Section Conference on Electrical, Computer, and Electronics* (UPCON-2015), at Indian Institute of Information Technology, Allahabad, India, December 4-6, 2015.
 44. Member, Technical program committee, *International Conference on Computer Graphics, Vision and Information Security* (IEEE CGVIS), KIIT University, India, November 2-3, 2015.
 45. Member, Technical program committee, 2nd *International Symposium on Computer Vision and the Internet* (VisionNet'2015), Kerala, India, August 10 -13, 2015.
 46. Member, Technical Program Committee, Special Session on *Biometric-based Security* in Conjunction with *International Conference on Signal Processing and Integrated Networks* (SPIN 2015), Noida, India, Feb 19-20, 2015.
 47. Member, Technical program committee, 9th *IEEE International Conference on Industrial and Information Systems* (ICIIS – 2014), at AVV IIITM Gwalior, Gwalior, India, December 15-17, 2014.
 48. Member, Technical program committee for the *International Symposium on Computer Vision and the Internet* (VisionNet'2014), GCET, Greater Noida- Delhi NCR, India, September 24-27, 2014.
 49. Member, Technical program committee for Second *International Symposium on Women in Computing and Informatics* (WCI-2014), GCET, Greater Noida- Delhi NCR, India, September 24-27, 2014.
 50. Member, Technical Program Committee, Special Session on *Biometric-based Security* in Conjunction with *International Conference on Signal Processing and Integrated Networks* (SPIN 2014), Noida, India, Feb 20-21, 2014.
 51. Member, Technical Program Committee, *IEEE International Conference on Control, Automation, Robotics & Embedded Systems* (CARE 2013), at PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur, India, December 16-18, 2013.
 52. Member, Technical Program Committee, Second *International Conference on Image*

Information Processing (ICIIP-2013), at Jaypee University of Information Technology Shimla, India, December 9-11, 2013.

53. Member, Technical Program Committee, Second *International Conference on Intelligent Interactive Technologies and Multimedia (IITM-2013)*, at Indian Institute of Information Technology, Allahabad, India, March 9-11, 2013.

Indo-Japan Forum

- Visit to the University of Tokyo, Japan, in May 2023 and January 2024 under the DST-JSPS project with Prof. Yasushi Yamaguchi, Prof. Aparajita Ojha, and Dr. Sraban Mohanty. There, we also attended meetings with other professors.
- Visit to the National Institute of Informatics (NII), Tokyo, Japan, in May 2023 to collaborate with Prof. Isao Echizen, Director, Information and Society Research Division, with Dr. Harkeerat Kaur at IIT Jammu
- Visit Japan on Long Term JSPS (Japan Society for the Promotion of Science) Invitation Fellowship for Research with Professor Haruo Yokota, Department of Computer Science, and Graduate School of Information Science & Engineering, Tokyo Institute of Technology, Japan, during May 2011-January 2012.
- Exposure visits to the University of Tokyo, Tokyo Institute of Technology, National Institute of Informatics, National Institute of Advanced Industrial Science and Technology, and Digital Human Research Center, Tokyo, Japan, under the India-Japan Joint Project IIITDM Jabalpur during the period December 2007. Sponsored by MOFA Japan and MHRD India.

Research Guidance (as of April 2026)

- Ph.D. Thesis Supervised – Twelve
- Ph.D. Supervision under progress – Three
- M.Tech. Thesis Supervised – Nineteen
- M.Tech. Supervision under progress – Five
- Guided various MCA and MS Projects. Supervised 8 MCA projects and 3 MS projects.
- Developed and established laboratories. Taught & developed several courses.
- Guided various B.Tech. Projects in the areas of Computer Graphics, Data Structures, Database Management Systems, and Image Processing.

Administrative Experience

- Member, Board of Governors, IIITDM Jabalpur
- Professor-In-Charge, Research, Sponsored Projects and Consultancy (RSPC), IIITDM Jabalpur
- Chairperson, Placement Cell, IIITDM Jabalpur
- Chairperson, Women Cell, IIITDM Jabalpur
- Head, Computer Science & Engineering, IIITDM Jabalpur
- QIP Coordinator, IIITDM Jabalpur
- Convener, Computer Center, IIITDM Jabalpur
- Coordinator, Academic Affairs, IIITDM Jabalpur
- Convener and Member, Undergraduate Committee of Senate (UGCS), IIITDM Jabalpur

- Convener and Member, Postgraduate Committee of Senate (PGCS), IIITDM Jabalpur
- Coordinator, activities for CSE discipline, IIITDM Jabalpur under India-Japan collaboration
- Member, Academic Senate, IIITDM Jabalpur
- Member, Counseling Cell, IIITDM Jabalpur
- Member, Institute Advisory Group – General Administration, IIITDM Jabalpur
- Member, Institute Advisory Group – Academic Vision, IIITDM Jabalpur
- Member, Board of Studies – Post Graduate Studies, Kurukshetra University
- Member, Curriculum Development Committee, UG & PG (both), Kurukshetra University

Publications (Since 2013)

2025

1. *Chaturvedi S., Thakur P. S., Khanna P., Ojha A., Song Y. and Awange J. L.*, "Satellite Image-Based Surveillance and Early Wildfire Smoke Detection Using a Multiattention Interlaced Network," IEEE Transactions on Industrial Informatics, vol. 21, no. 5, pp. 3806-3815, May 2025. doi: 10.1109/TII.2025.3528549.
2. *Bhati Amit, Jain Samir, Gour Neha, Khanna Pritee, Ojha A., and Werghi N.*, "Dynamic Statistical Attention-based Lightweight model for Retinal Vessel Segmentation: DyStA-RetNet", Computers in Biology and Medicine, vol. 186, 2025, 109592. <https://doi.org/10.1016/j.combiomed.2024.109592>.
3. *Thakur P.S., Chaturvedi S., Seal A., Khanna Pritee, Sheorey T., and Ojha A.*, "An Ultra Lightweight Interpretable Convolution-Vision Transformer Fusion Model for Plant Disease Identification: ConViTX", IEEE Transactions on Computational Biology and Bioinformatics, vol. 22, no. 1, pp. 310-321, Jan-Feb 2025, doi: 10.1109/TCBBIO.2024.3515149.
4. *Jatav Mayank, Baghel Manvi, Khanna Pritee and Ojha Aparajita*, "Fabric Classification with a Fusion of Transformer and Convolutional Neural Network", The 10th International Conference on Computer Vision & Image Processing (CVIP 2025), Ropar, India, December 10-13, 2025 (presented).
5. *Vivek V. Bhandarkar, Neha Pandey, Pritee Khanna, Vijay Kumar Gupta, and Puneet Tandon*, "User Perspectives on Additive Manufacturing and IoT Integration: A Combined Statistical and Predictive Analysis", ASME International Mechanical Engineering Congress & Exposition (IMECE) India 2025 at Hyderabad International Convention Center, Hyderabad, from September 10-13, 2025.
6. *Kaur Kirandeep, Agrawal Ansh, Kaur Harkeerat, and Khanna Pritee*, "SynthFace: Generating Secure Talking Avatars from Controlled Target Faces", 24th International Conference of the Biometrics Special Interest Group (BIOSIG 2025), Darmstadt, Germany, September 25-26, 2025.
7. *Singh Sudha, Jaiswal Tanay, Dayal Neelam, and Khanna Pritee*, "Behaviour Analysis of Attacks on IoT Network", The 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT 2025), Indore, India, July 6-12, 2025 (presented).

2024

8. *Thakur P.S., Chaturvedi S., Khanna Pritee, Sheorey T., and Ojha A.*, "Real-Time Plant

- Disease Identification: Fusion of Vision Transformer and Conditional Convolutional Network With C3GAN-Based Data Augmentation," IEEE Transactions on AgriFood Electronics, vol. 2, no. 2, pp. 576-586, Sept.-Oct. 2024, doi: 10.1109/TAFE.2024.3447792.
9. *Chaturvedi, S., Shubham Arun, C., Thakur P.S., Khanna Pritee, and Ojha A.*, "Ultra-lightweight convolution-transformer network for early fire smoke detection", *Fire Ecology*, 20, 83 (2024). <https://doi.org/10.1186/s42408-024-00304-9>.
 10. *Chaturvedi, S., Thakur P.S., Khanna Pritee, and Ojha A.*, "Smoke detection in foggy surveillance environment using parallel vision transformer network", *Neural Computing and Applications*, vol 36, 19499–19514 (2024). <https://doi.org/10.1007/s00521-024-10230-1>.
 11. *Bhati Amit, Gour Neha, Khanna Pritee, Ojha A., and Werghi N.*, "An interpretable dual attention network for diabetic retinopathy grading: IDANet", *Artificial Intelligence in Medicine*, 149 (2024) 102782, doi: <https://doi.org/10.1016/j.artmed.2024.102782>.
 12. *Tiwari V., Khanna Pritee, and Tandon P.*, "Capturing Design Intent During Concept Evaluation Using Rough Numbers and TODIM Method", *Computer-Aided Design and Applications*, 21(2), 2024, pp. 215-228, doi: <https://doi.org/10.14733/cadaps.2024.215-228>.

2023

13. *Verma, A., Gupta, N., Bhatele, P., and Khanna Pritee*, "JMCD Dataset for Brain Tumor Detection and Analysis Using Explainable Deep Learning", *SN Computer Science*, 4(840), November 2023, <https://doi.org/10.1007/s42979-023-02308-9>.
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121. *Soni S., Khanna Pritee and Tandon P.*, “Generative Evolutionary Action Grammar Based Form Exploration”, Proceedings of ASME, 33rd Computers and Information in Engineering (CIE) Conf. and Int. Design Engineering Technical Conference (IDETC), August 4-7, 2013, Portland, USA, DOI: <https://doi.org/10.1115/DETC2013-13024>.
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Conferences/Workshops/Courses Attended (In Person)

- 2025 10th International Conference on Computer Vision and Image Processing (CVIP 2025), India, December 10-13, 2025.
- 2025 Workshop on “The Future of Artificial Intelligence Research” at the Institute of Artificial Intelligence and Digital Sciences, HSE University, Moscow, Russia, September 10, 2025.
- 2023 8th International Conference on Computer Vision and Image Processing (CVIP 2023), India, November 3-5, 2023.
- 2023 CAD Conference, Mexico City, Mexico, July 10-12, 2023.
- 2019 4th International Conference on Computer Vision & Image Processing (CVIP-2019), Jaipur, India, Sep 27-29, 2019.
- 2019 15th International Conference on Machine Learning and Data Mining, MLDM 2019, New York, USA, July 20-25, 2019, and presented a paper entitled “Customized use of Expectation Maximization for Glioma Identification from Brain MRIs”.
- 2019 International Scientific Conference Magnitogorsk Rolling Practice – 2019, Magnitogorsk, Russia, June 4-7, 2019.
- 2018 IEEE International Conference on Information and Communication Technology (CICT 2018), Jabalpur, India, October 26-28, 2023.
- 2018 Tools and Methods of Competitive Engineering, TMCE 2018, Las Palmas de Gran Canaria, Gran Canaria, Spain, May 7-11, 2018, and presented a paper entitled “Early Detection of Alzheimer’s Disease using White Matter and Grey Matter Alterations in Wavelet Domain”.
- 2017 International Conference on Signal Processing and Imaging Engineering, ICSPiE 2017, 25th World Congress on Engineering and Computer Science 2017, organized by IAENG, San Francisco, USA, Oct 25-27, 2017 and presented papers entitled “Fractional Order Filter based Enhancement of Digital Mammograms” and “Non-invertible Biometric Encryption to Generate Cancelable Biometric Templates”.
- 2013 International Conference on Computational Intelligence & Intelligent Systems, ICCIIS’13, World Congress on Engineering 2013, organized by International Association of Engineers (IAENG), London, UK, July 3-5, 2013, and presented a paper entitled “Recognition of Single Handed Sign Language Gestures using Contour Tracing Descriptor”.
- 2013 National Conference of Engineering and Applied Sciences organized by Jabalpur Engineering College, Jabalpur, India, March 22-23, 2013, and presented an expert lecture on “Content-Based Image Retrieval”.
- 2012 International CAD Conference & Exhibition, CAD’12, Niagara Falls, Canada, June 11-14, 2012, and presented a paper entitled “Extended Axiomatic Design and Computational Support to Design for Aesthetics”.
- Fourth International Workshop on Biometrics and its Applications in Forensic Science (IWBFS’11) organized by Biometric Research lab, IIT Kanpur, India, Jan 13-15, 2011.
- 2010 International CAD Conference & Exhibition, CAD’10, Dubai, UAE, June 21-25, 2010, and presented a paper entitled “Multi-Agent Feature based Shape Grammar Implementation for Concept Generation of Industrial Product Design”.

- National Workshop on Recent Trends in Software Engineering (RTSE-2009), Jabalpur Engineering College, Jabalpur, India, March 06-07, 2009, and presented a keynote address on “Technical Performance testing of Biometric Systems”.
 - Finishing School Program for Engg. Graduates, IIT Roorkee, India, April 24-25, 2008.
 - National Conference on Futuristic Trends in Engineering and Technology, JNCEDM College of Engineering, Sirsa, India, January 28-29, 2008, and presented a keynote address on “Biometric Technologies for Security”.
 - National Conference on Information Technology, Present Practices and Challenges held at Asia-Pacific Institute of Management, New Delhi, India, Aug 31-Sept 1, 2007, and presented a keynote address on “Biometrics: An Overview of Challenges Ahead”.
 - Second International Conference on Computer Graphics Theory and Applications, GRAPP 2007, Barcelona, Spain, March 08-11, 2007, and presented a paper entitled “Hierarchic Modeling of Symmetric Geometries”.
 - Third International Workshop on Biometrics at IIT Kanpur, India, December 1– 2, 2006.
 - MCASE 2003, Thapar Institute of Engineering & Technology, Patiala, January 27-28, 2003.
 - International Conference on Systematics, Cybernetics, and Informatics, ICSCI-2004, Pentagon Research Center, Hyderabad, India, February 12-15, 2004.
 - Patent Awareness Workshop, organized by KUK and PSCST, India, November 25, 2002.
 - Orientation Course, Kurukshetra University, India, June 07-July 03, 2004.
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(PRITEE KHANNA)

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