

Dr. Om Prakash

Assistant Professor

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Department of Computer Science & Engineering
School of Engineering and Technology
H.N.B. Garhwal University (A Central University)
Srinagar Garhwal, Uttarakhand, India

Qualification and Experience

Qualification:

Doctor of Philosophy, University of Allahabad, Prayagraj, U.P., India (13 Nov. 2014)

Teaching Experience:

March 2020 – Present

- Assistant Professor at Academic Pay Level-11, Department of Computer Science and Engineering, School of Engineering and Technology, Hemvati Nandan Bahuguna Garhwal University (A Central University), Srinagar Garhwal, Uttarakhand, India

May 2019 – Feb 2020

- Computer Vision Scientist at Inferigence Quotient LLP, Bengaluru, Karnataka, India

May 2018 – April 2019

- Assistant Professor at Department of Computer Science and Engineering, NIRMA University, Ahmedabad, Gujarat, India

March 2016 – April 2018

- Faculty at Centre of Computer Education & Training, University of Allahabad, Prayagraj, U.P., India

March 2015 – Feb 2016

- Postdoctoral Fellow at Gwangju Institute of Science and Technology, South Korea

Aug 2007 – Feb 2015

- Faculty at Centre of Computer Education & Training, University of Allahabad, Prayagraj, U.P., India

Research Interests

- Computer Vision
- Image and Video Processing
- Wavelet transforms
- Multisensory data fusion
- Video surveillance
- Machine Learning/Deep Learning
- Thermography
- Medical Imaging

Subjects Taught:

- Discrete Mathematical Structures
- Database Management Systems
- Programming in C
- Data Structures
- Design and Analysis of Algorithms
- Object Oriented Programming
- Digital Electronics
- Computer Fundamentals
- Theory of Computation
- Image Processing
- Artificial Intelligence
- Machine Learning
- Operating Systems
- Distributed Computing
- Advanced Databases
- Multimedia Systems

Administrative Experience:

1. **Convener, Inter-Faculty Cultural and Academic Competitions (2025-26)** for School of Engineering and Technology, HNB Garhwal University, Srinagar Garhwal, Uttarakhand.
2. **Assistant Proctor, H.N.B. Garhwal University** (A Central University), Srinagar Garhwal, Uttarakhand from January 31, 2026–Present.
3. **Convener, MCA Admission Committee 2025-26**, Department of Computer Science and Engineering, School of Engineering and Technology, HNBGU.
4. **Member**, Discipline Committee for General Students Union Election 2025 of H.N.B. Garhwal University (A Central University), Srinagar Garhwal.
5. **Member, Board of Studies**, Department of Computer Science and Engineering, HNBGU between 08/04/2022 to 07/04/2026.
6. **Warden**, Sri Dev Suman Boys Hostel, Chauras, H.N.B. Garhwal University (A Central University), Srinagar Garhwal from February 2024–January 2025.
7. **Warden**, Aryabhata Research Boys Hostel, Chauras H.N.B. Garhwal University (A Central University), Srinagar Garhwal from September 2024–January 2024.
8. **Convener, MCA Admission Committee 2024-25**, Department of Computer Science and Engineering, School of Engineering and Technology, HNBGU.
9. **Team Manager**, School of Engineering and Technology, in the **Inter Faculty Academic and Cultural Competitions 2025** (Annual Fest 2025) of the H.N.B. Garhwal University, Srinagar Garhwal.
10. **Team Manager**, School of Engineering and Technology, in the **Inter Faculty Academic and Cultural Competitions 2024** (Annual Fest 2024) of the H.N.B. Garhwal University, Srinagar Garhwal.

11. **Team Manager**, School of Engineering and Technology, in the **Inter Faculty Academic and Cultural Competitions 2023** (Annual Fest 2023) of the H.N.B. Garhwal University, Srinagar Garhwal.
12. **Member, Board of Studies**, Department of Computer Science and Engineering, HNBGU between 20/08/2022 to 19/08/2023.

Book Edited as Guest Editor

AKS Kushwaha, **Om Prakash**, M. Khare, J. Gwak, N.T. Binh, “Visual and Sensory Data Processing for Real Time Intelligent Surveillance System”, *Multimed Tools Appl*, vol.81, pp. 42097–42098 (2022). <https://doi.org/10.1007/s11042-022-14263-3>, Springer.

Publications in International Journals

1. Pratibha Maurya, Arati Kushwaha, **Om Prakash**, “Medical Data Classification Using Genetic Programming: A Systematic Literature Review”, *Expert Systems*, vol. 42(3): e70007, ISSN: 0266-4720, 05 Feb 2025, John Wiley & Sons Ltd (**SCI**), DOI: <https://doi.org/10.1111/exsy.70007>.
2. Pratibha Maurya, Arati Kushwaha, Ashish Khare, **Om Prakash**, “Balancing Accuracy and Efficiency: A Lightweight Deep Learning Model for Covid-19 Detection” *Engineering Applications of Artificial Intelligence*. vol. 136, Part B, 24 July 2024, 108999, ISSN 0952-1976, Elsevier. (**SCI**). <https://doi.org/10.1016/j.engappai.2024.108999>.
3. Arati Kushwaha, Ashish Khare, **Om Prakash**, Human activity recognition algorithm in video sequences based on the fusion of multiple features for realistic and multi-view environment. *Multimedia Tools and Applications*. vol.83, pp. 22727-22748, August 2024, Springer (**SCI**) (<https://doi.org/10.1007/s11042-023-16364-z>)
4. Neha Sisodiya, Nitant Dube, **Om Prakash**, Priyank Thakkar, Scalable Big Earth Observation Data Mining Algorithms: A Review. *Earth Science and Informatics*, vol.16, pp. 1993–2016, June 2023, Springer (**SCI**). <https://doi.org/10.1007/s12145-023-01032-5>.
5. Ashish Khare, Arati Kushwaha and **Om Prakash**, Human Activity Recognition in a Realistic Unconstrained and Multiview Environment using 2D-CNN. *Journal of Artificial Intelligence and Technology (JAIT)*. vol.3, pp. 100-107, May 2023, Intelligence Science and Technology Press. (ISTP) (**Scopus**). (<https://doi.org/10.37965/jait.2023.0163>)
6. Arati Kushwaha, Ashish Khare, **Om Prakash**, “Micro-network-based deep convolutional neural network for human activity recognition from realistic and multi-view visual data”, *Neural Comput & Applic* (2023). vol.35, pp.13321–13341, Springer (**SCI**). (<https://doi.org/10.1007/s00521-023-08440-0>)

7. Arati Kushwaha, Ashish Khare, **Om Prakash** and Manish Khare, "Dense optical flow based background subtraction technique for object segmentation in moving camera environment", *IET Image Processing*, vol. 14, no. 14, pp. 3393-3404, December 2020, IET Publication. **(SCI)** (<https://doi.org/10.1049/iet-ipr.2019.0960>).
8. Mounika B. Reddy, Om Prakash, Ashish Khare, "Keyframe extraction using Pearson correlation coefficient and color moments,". *Multimedia Systems*, vol. 26, pp.267–299 (2020), Springer. **(SCI)** (<https://doi.org/10.1007/s00530-019-00642-8>).
9. Mounika B. Reddy, **Om Prakash**, Ashish Khare, "Video Superpixels Generation through Integration of Curvelet transform and Simple Linear Iterative Clustering", *Multimedia Tools and Applications*, vol. 78, pp. 25185–25219, March 2019, Springer. **(SCI)** (<https://doi.org/10.1007/s11042-019-7554-z>).
10. **Om Prakash**, Chang Min Park, Ashish Khare, Moongu Jeon, Jeonghwan Gwak, "Multiscale Fusion of Multimodal Medical Images using Lifting Scheme based Biorthogonal Wavelet Transform," *Optik*, vol. 182, pp.995-1014, April 2019, Elsevier **(SCI)** (<https://doi.org/10.1016/j.ijleo.2018.12.028>)
11. Manish Khare, **Om Prakash** and Rajneesh Kumar Srivastava, "Combining Zernike moment and Complex wavelet transform for Human object classification," *Int. J. Computational Vision and Robotics*, May 2018, vol.18, no.2, pp.140-167, Inderscience Publishers. **(Scopus)** (<https://doi.org/10.1504/IJCVR.2018.091983>)
12. **Om Prakash**, Jeonghwan Gwak, Manish Khare, Ashish Khare, Moongu Jeon, "Human detection in complex real scenes based on combination of biorthogonal wavelet transform and Zernike moments," *Optik*, vol. 157, pp. 1267-1281, March 2018, Elsevier. **(SCI)** (<https://doi.org/10.1016/j.ijleo.2017.12.061>)
13. Richa Srivastava, **Om Prakash** and Ashish Khare, "Local Energy based Multimodal Medical Image Fusion in Curvelet Domain," *IET Computer Vision*, vol.10, issue 6, pp. 513-527, 2016. IET digital library.**(SCI)** (<https://doi.org/10.1049/iet-cvi.2015.0251>)
14. **Om Prakash** and Ashish Khare, "Tracking of moving object using energy of Biorthogonal wavelet transform," *Chiang Mai Journal of Science*, vol.42, no.3, pp. 783-795, July 2015, Chiang Mai University. **(SCI)** (<https://thaiscience.info/Journals/Article/CMJS/10972713.pdf>)
15. **Om Prakash** and Ashish Khare, "Medical Image Denoising based on Soft thresholding using Biorthogonal Multiscale Wavelet Transform," *International Journal of Image and Graphics*, vol. 14, no. 1 & 2, pp. 1450002 (30 pages), March 2014, World Scientific. **(SCI)** (<https://doi.org/10.1142/S0219467814500028>)

16. Alok Kumar Singh Kushwaha, Chandra Mani Sharma, Manish Khare, **Om Prakash** and Ashish Khare, "Adaptive real-time motion segmentation technique based on statistical background model," *The Imaging Science Journal*, vol. 62, no.5, pp. 285-302, 2014, Royal Photographic Society. **(SCI)** (<https://doi.org/10.1179/1743131X13Y.0000000056>)
17. Rajiv Singh, Richa Srivastava, **Om Prakash** and Ashish Khare, "Multimodal medical image fusion in Dual tree complex wavelet domain using maximum and average fusion rules," *Journal of Medical Imaging and Health Informatics*, vol. 2, no. 2, pp. 168-173, June 2012, American Scientific Publishers. **(SCI)** (<https://doi.org/10.1166/jmih.2012.1080>)

Publications as Book Chapter

1. Nguyen B.T., **Prakash O.**, Vo A.H. (2021) Attention Mechanism for Fashion Image Captioning. In: Huang YP., Wang WJ., Quoc H.A., Giang L.H., Hung NL. (eds) Computational Intelligence Methods for Green Technology and Sustainable Development. GTSD 2020. Advances in Intelligent Systems and Computing, vol 1284, Pp.93-104, Springer, Cham. **(Scopus)** (https://doi.org/10.1007/978-3-030-62324-1_9).
2. Ho T.K.K., Gwak J., **Prakash O.**, Song JI., Park C.M. (2019) Utilizing Pretrained Deep Learning Models for Automated Pulmonary Tuberculosis Detection Using Chest Radiography. In: Nguyen N., Gaol F., Hong TP., Trawiński B. (eds) Intelligent Information and Database Systems. ACIIDS 2019. Lecture Notes in Computer Science, vol 11432, pp.395-403, Springer. **(Scopus)** (https://doi.org/10.1007/978-3-030-14802-7_34)
3. Lee S., Gwak J., **Prakash O.**, Khare M., Khare A., Jeon M. (2019) Comparative Study on Person Re-identification Using Color and Shape Features-Based Body Part Matching. In: Khare A., Tiwary U., Sethi I., Singh N. (eds) Recent Trends in Communication, Computing, and Electronics. Lecture Notes in Electrical Engineering, vol 524, pp.313-322, Springer, Singapore **(Scopus)** (https://doi.org/10.1007/978-981-13-2685-1_30)
4. Jeong H., Gwak J., Park C., Khare M., **Prakash O.**, Song JI. (2019) Enabling More Accurate Bounding Boxes for Deep Learning-Based Real-Time Human Detection. In: Khare A., Tiwary U., Sethi I., Singh N. (eds) Recent Trends in Communication, Computing, and Electronics. Lecture Notes in Electrical Engineering, vol 524, pp. 345-356, Springer, Singapore **(Scopus)** (https://doi.org/10.1007/978-981-13-2685-1_33)
5. Kushwaha A., **Prakash O.**, Srivastava R.K., Khare A. (2019) Dense Flow-Based Video Object Segmentation in Dynamic Scenario. In: Khare A., Tiwary U., Sethi I., Singh N. (eds) Recent Trends in Communication, Computing, and Electronics. Lecture Notes in Electrical Engineering, vol 524, pp. 271-278, Springer, Singapore **(Scopus)** (https://doi.org/10.1007/978-981-13-2685-1_26)

6. Reddy Mounika B., **Prakash O.**, Khare A. (2019) Fusion of Zero-Normalized Pixel Correlation Coefficient and Higher-Order Color Moments for Keyframe Extraction. In: Khare A., Tiwary U., Sethi I., Singh N. (eds) Recent Trends in Communication, Computing, and Electronics. Lecture Notes in Electrical Engineering, vol 524, pp. 357-364, Springer, Singapore (**Scopus**) (https://doi.org/10.1007/978-981-13-2685-1_34)
7. **Prakash O.**, Khare A. (2015) CT and MR Images Fusion Based on Stationary Wavelet Transform by Modulus Maxima. In: Sethi I. (eds) Computational Vision and Robotics. Advances in Intelligent Systems and Computing, vol 332, pp. 199-204, Springer, New Delhi (https://doi.org/10.1007/978-81-322-2196-8_23)
8. **Prakash O.**, Khare M., Srivastava R.K., Khare A. (2015) Tracking of Deformable Object in Complex Video Using Steerable Pyramid Wavelet Transform. In: Sethi I. (eds) Computational Vision and Robotics. Advances in Intelligent Systems and Computing, vol 332, pp.1-6, Springer, New Delhi. (https://doi.org/10.1007/978-81-322-2196-8_1)
9. **Prakash O.**, Khare M., Binh N.T., Khare A. (2016) Human Object Detection in Images Using Shift-Invariant Stationary Wavelet Transform. In: Afzalpulkar N., Srivastava V., Singh G., Bhatnagar D. (eds) Proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing, vol.1, pp. 481-487, Springer, New Delhi (https://doi.org/10.1007/978-81-322-2638-3_55)

Publications in International Conference Proceedings

1. Amit Kumar, **Om Prakash**, “Harnessing Textual-Deep Learning Model to Prognose Depression,” accepted, Intelligent Strategies for ICT - Proceedings of ICTCS 2025, vol.10, ICTCS 2025, December 16-17, 2025, Jaipur, India
2. B. Reddy Mounika, **Om Prakash**, Ashish Khare, “Key Frame Extraction using Uniform Local Binary Pattern,” *2018 Second International Conference on Advances in Computing, Control and Communication Technology (IAC3T)*, University of Allahabad, Allahabad, 21-23 Sept 2018. (<https://ieeexplore.ieee.org/document/8674017>)
3. Abhishek Srivastava, Pronaya Bhattacharya, Arunendra Singh, Atul Mathur, **Om Prakash**, Rajeshkumar Pradhan,” A Distributed Credit Transfer Educational Framework based on Blockchain,” *2018 Second International Conference on Advances in Computing, Control and Communication Technology (IAC3T)*, University of Allahabad, Allahabad, 21-23 Sept 2018. (<https://ieeexplore.ieee.org/document/8674023>)

4. **Om Prakash**, Alok Kumar Singh Kushwaha, Moongu Jeon “An approach towards Object Tracking based on Rotation Invariant Moments of Complex Wavelet Transform,” in *International Conference on Advances in Computing, Control and Communication Technology (IAC3T-2016)*, University of Allahabad, Allahabad, 25-27 March 2016.
5. Arati Kushwaha, Ashish Khare, **Om Prakash**, Jong-In Song, Moongu Jeon “3D Medical Image Fusion using the Dual Tree Complex Wavelet Transform,” in *IEEE 4th International Conference on Control, Automation and Information Sciences (ICCAIS-2015)*, Changshu, China, 29-31 October 2015.(<https://ieeexplore.ieee.org/document/7338671>)
6. Manish Khare, **Om Prakash**, Rajneesh Kumar Srivastava, Ashish Khare, "Contourlet Transform based Human Object Tracking", *Proceeding of 27th SPIE Electronic Imaging, Vol. 9410 (Visual Information Processing and Communication VI)*, 08-12 February, 2015, San Francisco, USA. (<https://doi.org/10.1117/12.2083364>)
7. **Om Prakash**, Manish Khare, Ashish Khare, “Biorthogonal Wavelet Transform Based Classification of Human Object Using Adaboost Classifier,” *Proceedings of IEEE 3rd International Conference on Control, Automation and Information Sciences (ICCAIS-2014)*, Gwangju Institute of Science and Technology (GIST), South Korea, pp.194-199, 02-05 December 2014. (<https://ieeexplore.ieee.org/document/7020557>)
8. Manish Khare, **Om Prakash**, Rajneesh Kumar Srivastava, Ashish Khare, “Daubechies Complex Wavelet Transform Based Approach for Multiclass Object Classification,” *Proceedings of IEEE 3rd International Conference on Control, Automation and Information Sciences (ICCAIS-2014)*, Gwangju Institute of Science and Technology (GIST), South Korea, 206-211, 02-05 December 2014. (<https://ieeexplore.ieee.org/abstract/document/7020559>)
9. Prashant Srivastava, **Om Prakash**, Ashish Khare, “Content-Based Image Retrieval Using Moments of Wavelet Transform,” *Proceedings of IEEE 3rd International Conference on Control, Automation and Information Sciences (ICCAIS-2014)*, Gwangju Institute of Science and Technology (GIST), South Korea, pp. 159-164, 02-05 December 2014. (<https://ieeexplore.ieee.org/document/7020550>)
10. **Om Prakash**, Arvind Kumar, Ashish Khare, “Pixel-level Image fusion Scheme based on Steerable Pyramid Wavelet Transform using absolute Maximum fusion rule,” *Proceedings of IEEE International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT-2014)*, Ghaziabad, India, pp. 770-775, 07-08 February, 2014. (<https://ieeexplore.ieee.org/document/6781377>)
11. **Om Prakash**, Manish Khare, Rajneesh Kumar Srivastava and Ashish Khare, “Multiclass Image Classification using Multiscale Biorthogonal Wavelet Transform,” *Proceedings of IEEE International Conference on Image Information Processing (ICIIP-2013)*, Jaypee University of

Information Technology, Wagnaghat, Shimla, Himachal Pradesh, India, pp. 131-135, 9-11 December, 2013.

(<https://ieeexplore.ieee.org/document/6707569>)

12. **Om Prakash**, Richa Srivastava and Ashish Khare, "Biorthogonal Wavelet Transform based Image Fusion using Absolute Maximum Fusion Rule," *Proceedings of IEEE International Conference on Information and Communication Technologies (ICT 2013)*, Kanyakumari, India, pp. 577-582, 11-12 April, 2013.

(<https://ieeexplore.ieee.org/document/6558161>)

13. Alok K Singh Kushwaha, **Om Prakash**, Ashish Khare, Mahesh H. Kolekar, "Rule based human activity recognition for surveillance system," *Proceedings of 4th International conference on Intelligent Human Computer Interaction*, IIT Kharagpur, India, pp.466-471, 27-29 December, 2012, Elsevier Procedia.

(<https://ieeexplore.ieee.org/document/6481853/authors#authors>)

14. Rajiv Singh, Richa Srivastava, **Om Prakash** and Ashish Khare, "Mixed scheme based multimodal medical image fusion using Daubechies complex wavelet transform," *Proceedings of IEEE/OSA/IAPR International conference on Informatics, Electronics and Vision*, Dhaka, Bangladesh, pp. 304-309, 18-19 May, 2012.

(<https://ieeexplore.ieee.org/document/6317394>)

15. Rajiv Singh, Richa Srivastava, **Om Prakash** and Ashish Khare, "DTCWT based Multimodal Medical Image Fusion," *Proceedings of International Conference on Signal, Image and Video Processing (ICSIVP-2012)*, IIT Patna, Patna, India, pp. 403-407, 13-15 January, 2012.

Publications in National Conference Proceedings

1. **Om Prakash**, Manish Khare and Ashish Khare, "Image denoising technique based on soft thresholding of biorthogonal wavelet coefficients," *Proceedings of ICEIT conference on Advances in Mobile Communications, Networking and Computing*, Delhi, India, pp. 155-159, 27-28 September, 2013.
2. **Om Prakash** and Ashish Khare, "An approach towards object tracking in video based on complex wavelet transform," *Proceedings of National Seminar on Impact of Physics on Biological Sciences*, Allahabad, India, pp. 82-87, 26 August, 2010.

Invited Talk Delivered

1. Delivered an Invited talk in the **Two-Day Training Program on AI Chatbots in Pedagogy, Research, and Ethical Practices**, organized under the ICSSR sponsored research project titled:

“Transforming Education: Exploring Artificial Intelligence (AI)-Assisted Self-Directed Learning and Bridging the Digital Divide for Educational Equality and Inclusion in the Garhwal Region of Uttarakhand.” at Department of Education, Birla Campus of Hemvati Nandan Bahuguna Garhwal University, Srinagar, Feb 25, 2026.

2. Delivered an Invited Talk titled “*Evolution of AI and Learning through AI Driven Tools-AI and ML*” at Uttarakhand Government Institute of Polytechnic (UGIP), Srinagar Garhwal under the SKILL WEEK programme of Govt. of Uttarakhand, Feb 24, 2026.
3. Delivered an Invited talk in the **Two-Day Training Program on AI Chatbots in Pedagogy, Research, and Ethical Practices**, organized under the ICSSR sponsored research project titled: “Transforming Education: Exploring Artificial Intelligence (AI)-Assisted Self-Directed Learning and Bridging the Digital Divide for Educational Equality and Inclusion in the Garhwal Region of Uttarakhand.” at Anusuya Prasad Bahuguna Government Post Graduate College, Agastyamuni, Rudraprayag Feb 23, 2026.
4. Delivered an expert lecture on “**Use Social Media in Education**”. in the Workshop on “Communication & Expository Writing and Self-Development” organized by Department of Education, H.N.B. Garhwal University (A Central University), Srinagar Garhwal, Uttarakhand held between December 22–28, 2025. Delivered on 26 Dec 2025.
5. Delivered an invited talk titled “**Interactive AI-Powered Tools for Academia**” in the Short-Term Faculty Development Programme on “Harnessing Artificial Intelligence in Higher Education for Innovative Future” under MMTTP of UGC organized by MMTTC H.N.B. Garhwal University (A Central University) Srinagar Garhwal, India held between December 04–10, 2025, delivered on December 10, 2025.
6. Delivered an invited talk titled “**Applications of Artificial Intelligence (AI) in Education and Research**” in the Faculty Induction (Guru Dakshata) Program under MMTTP of UGC organized by MMTTC H.N.B. Garhwal University (A Central University) Srinagar Garhwal, India held between Sept 02–30, 2025, delivered on September 19, 2025.
7. Delivered an invited talk titled “**Artificial Intelligence and its Applications**” in the Faculty Induction (Guru Dakshata) Program under MMTTP of UGC organized by MMTTC H.N.B. Garhwal University (A Central University) Srinagar Garhwal, India held between May 13–June 11 2025, delivered on May 23, 2025.
8. Delivered a Keynote talk on “**Futuristic Affective Computing: Challenges and Opportunities**”. in International Conference on Electrical Facilities and Informational Technologies (ICEF 2024) organized by Mongolian University of Science and Technology (MUST), Ulaanbaatar, **Mongolia** on August 22, 2024.

9. Delivered an expert lecture on “**Computer Vision and its Applications**” at Information Technology and Computer Engineering Department, Uttarakhand Government Institute of Polytechnic (UGIP), Srinagar Garhwal Feb 19, 2024.
10. Delivered a Keynote talk on “**An Intelligent Surveillance System for Human Behavior Analysis**”, in International Conference on Electrical Facilities and Informational Technologies (ICEF 2023) organized by Almaty University of Power Engineering and Telecommunications, **Kazakhstan** on August 24, 2023.
11. Delivered two lectures (Online mode) as Resource Person on the topic titled “**AI & its applications in age of COVID-19 pandemic**” at the Interdisciplinary Refresher Course in Information and Communication Technology organized by **UGC–Human Resource Development Centre, University of Allahabad** on December 07, 2020.
12. An invited talk delivered (Online mode) on “**Convolutional Neural Network (CNN) and Image Classification**” in a One Week Faculty Development Programme in Data Sciences (Emerging Frontiers of Data Science and Machine Learning) during 12-16 Oct 2020 under the banner of **AICTE Training and Learning (ATAL) Academy** sponsored by AICTE, New Delhi and organized by Department of Computer Science & Engineering, SoS (E&T), Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, C.G., India
13. Two days expert lecture delivered (Online mode) on “**Threshold Logic, Perceptron Learning Algorithms, Machine Learning Application in Computer Vision**” for the online Faculty Development Programme on “Deep Learning and Machine Learning Applications in Computer Vision” jointly organized by Department of CSE, Guru Ghasidas Vishwavidyalaya, Koni Bilaspur (C. G.) and Electronics and ICT Academy, NIT Patna under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” by the **Ministry of Electronics and Information Technology (MeitY)**, Government of India from 22 – 28 Aug 2020. Lectures were scheduled on 25-08-2020, and 26-08-2020.
14. An invited talk titled “**Artificial Intelligence & its Applications in the age of COVID-19**” delivered in the Technical Session of the *two day International E-Conference on Technological Support to fight against COVID-19*, jointly organized by Department of Computer Science & Department of Computer Application, Awadhesh Pratap Singh University, Reva, M.P., India held on June 21-22, 2020.
15. An invited talk delivered (Online mode) on “**Artificial Intelligence & its Applications in COVID-19 Era**” in “*Two National Webinar on Effects of COVID-19 on Environment and Education System*” organized by Pt. Deen Dayal Upadhyay Government Girls P.G. College Lucknow, India during June 3–4, 2020.

16. An invited talk delivered (Online mode) on “**Role of Artificial Intelligence (AI) in the Age of COVID-19 Pandemic**” in “Seven day International Webinar on Survival Strategies for post COVID-19 Era: Perspectives, from Science, Technology, & Social Science” organized by RC-4, IAPT and Department of Physics, Ewing Christian College (An Autonomous Constituent P.G. College of Allahabad University), Prayagraj, India during May 20-26, 2020.
17. An invited talk delivered on “**Wavelet based Image Denoising Application**” in a 5-day Faculty Development Program sponsored by Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh on “Wavelet Theory and its Applications in Signals and Image Processing” organized by Department of Electronics and Communication Engg., United College of Engineering and Research, Allahabad, India during 1-5 May 2018.
18. An invited talk delivered on “**Person Re-Identification in Real Time Large Scale Videos**” in the International Conference on Emerging Trends in Communication, Computing and Electronics (IC3E-2018) organized by Department of Electronics and Communication, University of Allahabad, Allahabad, India during April 13-15, 2018.
19. An invited talk delivered on “**Robotics and Automation**” in a three week UGC-HRDC sponsored refresher course in Computer Applications organized by Centre of Computer Education, Institute of Professional Studies, University of Allahabad, Allahabad, India during March 09-29, 2018.
20. A Tutorial delivered on “**Computer Vision- Challenges and its Applications**” in the IEEE International Conference Recent Advances in Engineering, Technology and Computational Sciences- 2018 organized by the Shepherd Institute of Engineering and Technology, SHUATS, Allahabad, India during February 06-08, 2018.
21. An invited talk delivered on “**Data Mining and its Applications**” in “National Workshop on Recent Challenges to Biophysics and Bioinformatics” organized by RC-4, IAPT and Department of Physics, Ewing Christian College (An Autonomous Constituent P.G. College of Allahabad University), Allahabad, India during January 19-20, 2018.
22. An invited talk delivered on “**Knowledge Extraction from Image and Video**” in a three week UGC-ASC sponsored refresher course in ICT organized by Centre of Computer Education, Institute of Professional Studies, University of Allahabad, Allahabad, India during November. 2013.

Events Organized/ Chaired

1. Scheduled an special session on Computational Imaging and Vision (CIV 2026) in 18th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2026) and organizer of special session on Computational Imaging and Vision (CIV), in ACIIDS-2026, April 13-15, 2026, **Kaohsiung, Taiwan** (Online mode).

2. **Course Coordinator**, One Week Short-Term Faculty Development Programme on “**Harnessing Artificial Intelligence in Higher Education for Innovative Future**” under MMTTP of UGC organized by MMTTC H.N.B. Garhwal University (A Central University) Srinagar Garhwal, India held between December 04–10, 2025.
3. **Convener**, One–Day **International Symposium on Frontier Technologies: From AI and Biomedical Innovation to Indian Space Exploration**, held on August 18, 2025 in the Department of Computer Science and Technology, H.N.B. Garhwal University (A Central University), Srinagar Garhwal, Uttarakhand (Hybrid mode).
4. Organizer of special session on Computational Imaging and Vision (CIV 2023) in 15th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2023) and organizer of special session on Computational Imaging and Vision (CIV), in ACIIDS-2023, July 24-26, 2023, **Phuket, Thailand** (Online mode).
5. Organizer of special session on Computational Imaging and Vision (CIV 2022) in 14th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2022) and organizer of special session on Computational Imaging and Vision (CIV), in ACIIDS-2022, November 28–30, 2022, **Ho Chi Minh City, Vietnam** (Online mode).
6. Organizer of special session on Computational Imaging and Vision (CIV 2021) in 13th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2021) and organizer of special session on Computational Imaging and Vision (CIV), in ACIIDS-2021, 7-10 April 2021, **Phuket, Thailand** (Online mode).
7. Organizer of special session on Computational Imaging and Vision (CIV 2020) in 12th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2020), 23-26 March 2020, **Phuket, Thailand**. (Online mode).
8. Organizer of special session on Computational Imaging and Vision (CIV 2019) in 11th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2019), 8-11 April 2019, **Yogyakarta, Indonesia**.
9. Program Chair, in the 2nd IEEE International Conference on Advances in Computing, Control and Communication Technology (IAC3T-2018) to be held during 21-23 September 2018 in the Centre of Computer Education, University of Allahabad, **India**
10. Member, Organizing Committee in the International Conference on Emerging Trends in Communication, Computing and Electronics (IC3E-2018) to be held during 13-15 April, 2018 in the Department of Electronics and Communication, University of Allahabad, Allahabad, **India**.
11. Member, Program Committee, Special session on “Nature of Computation and Communication in Image Processing and Visualization (NCCIPV2016)” in 2nd EAI International Conference on Nature of Computation and Communication, 2016 (ICTCC2016), **Vietnam**.

12. Member, Program Committee, Advances in Computing, Control and Communication Technology (IAC3T 2016), **India**.
13. Member, Program Committee, Special Session on “Context Aware Computations in Image Processing and Visualization (CACIPV2015)” in *4th International Conference on Context-Aware Systems and Applications*, 2015, **Vietnam**.
14. Member, Program committee, *International Conference on Control Automation & Information Sciences (ICCAIS 2015)*, **China**.
15. Member, International Association of Engineers (IAENG).
16. Organizing Secretary, National Seminar on Trends in Computer Vision, 25 February 2012, IETE Allahabad.

Conference/Seminar/Workshop/Training Attended

1. UGC sponsored **Refresher Course on Synchronizing Devices and Impacts of Internal Safety under Cyber Security (Interdisciplinary)** organized by Guru Ghasidas Vishwavidyalaya, **Bilaspur (C.G.), India** held between September 08–22, 2023 (Online).
2. UGC sponsored **Faculty Induction Programme-12**, organized by UGC-Human Resource Development Centre (HRDC) organized by UGC-Human Resource Development Centre (HRDC) Jawaharlal Nehru Technological University, **Hyderabad, India** held between Feb 13–March 16, 2023 (Online).
3. 11th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2019), **Yogyakarta, Indonesia**, 8-11 April 2019.
4. Second International Conference on Advances in Computing, Control and Communication Technology (IAC3T), University of **Allahabad, India**, 21-23 Sept 2018.
5. A 4-week Faculty Induction Programme held during May 28-June 23, 2018 organized by Quality Assurance and Academic Development (CQAAD), Nirma University, **Ahmedabad, India**.
6. International Conference on Emerging Trends in Communication, Computing and Electronics (IC3E-2018) held during 13-15 April 2018 in the Department of Electronics and Communication, University of Allahabad, **Allahabad, India** (Springer).
7. International Conference on Advances in Computing, Control and Communication Technology (IAC3T-2016), University of Allahabad, **Allahabad, India**, 25-27 March 2016.
8. International Conference on Recent cognizance in wireless communication & image processing (ICRCWIP2014), **Jaipur, India**, 16-17 January 2015.

9. The 2014 International Conference on Control, Automation and Information Sciences (ICCAIS-2014) organized by Gwangju Institute of Science and Technology, **Gwangju, South Korea**, 02-05 December 2014.
10. 5th International Conference on Computational Vision and Robotics (ICCV-2014), organized by IIMT Research Group, **Bhubaneswar, India**, 10 August, 2014.
11. ICEIT National Conference on Advances in Mobile Communications, Networking and Computing held on 27-28 September 2013, at India International Centre, 40, Max Mueller Marg, **New Delhi, India**.
12. IEEE 2nd International Conference on Image Information Processing (ICIIP-2013) held on 09-11 December 2013, organized by Jaypee University of Information Technology, **Waknaghat, Himanchal Pradesh, India**.
13. 2013 IEEE Conference on Information and Communication Technologies (ICT-2013) held on 11-12 April 2013, at Noorul Islam Centre for Higher Education, **Kanyakumari, Tamil Nadu, India**.
14. UGC sponsored Special Summer School on Globalization, held on 25 May to 14 June 2013 organized by Academic Staff College, University of Allahabad, **Allahabad, India**.
15. UGC sponsored Refresher Course in Information and Communication Technology held on 20 September to 10 October 2013 organized by Academic Staff College, University of Allahabad, **Allahabad, India**.
16. 3-Day Workshop on Wavelets and its Applications (WoW 2012), this workshop was held from 13-15 July 2012 and organized by PDPM IIITDM **Jabalpur, Madhya Pradesh, India**.
17. National Seminar on Trends in Computer Vision, this seminar was held on 25 February 2012 at IETE, **Allahabad Centre, India**.
18. Indian Conference on Vision Graphics and Image Processing (ICVGIP 2010), this conference was held from 12-15 December 2010 at Indian Institute of Technology, **Chennai, India**.
19. National Seminar on Impact of Physics on Biological Science, Sponsored by UGC, New Delhi, this seminar was held on 26 August, 2010 at Department of Physics, Ewing Christian College (An Autonomous Constituent College of University of Allahabad), **Allahabad, India**.
20. Indian Conference on Vision, Graphics and Image Processing (ICVGIP 2008), this conference was held from 12-15 December 2008 at Indian Institute of Technology, **Bhubaneswar, India**.