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Areas of Interest

Biometrics, Biomedical image processing, Image Retrieval and Indexing, Dynamic Gesture Recognition, Computer Aided Product Design

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, (82.4%).
- **MSc (Physics) Specialization in Electronics & Hardware**, Christ Church College, Kanpur University, Kanpur, India, 1990, (69%).

Working Experience

Total Work Experience: 20 years (approx.)

- Working as Associate Professor in the discipline of Computer Science & Engineering at PDPM Indian Institute of Information Technology, Design & Manufacturing (IIITDM) Jabalpur since June 2009.
- 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 IT Department of LML Ltd., Kanpur (January to June, 1998).

Scholastic and Professional Achievements

- Senior Member, IEEE.
- 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 top 5% in the college and university.
- Qualified *National Eligibility Test (NET)* with *Junior Research Fellowship (JRF)* (June 1999) conducted by University Grants Commission (UGC), Government of India for Academics & Research.
- 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 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, 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.
- Co-chair special session on “**Soft Computing: Current Trend of Machine Learning in Computer Vision**” in 2019 IEEE International Conference on Systems, Man, and Cybernetics (SMC) during October 6- 9, 2019, Bari, Italy.
- Guest Editor, Special Issue on “**Computational Intelligence Methods for Brain-Machine Interfacing or Brain-Computer Interfacing**”, Computational and Mathematical Methods in Medicine, 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.
- Track Chair – Signal, Image and Video Processing at 2019 IEEE Conference on Information and Communication Technology (CICT 2019), at IIIT Allahabad, Prayagraj,

India, December 6-8, 2019.

- Part of organizing committees of various institute/university level academic, cultural & sports events.
- Coach of various students' teams for ACM Programming Contest – Asia Region during 2006-2012.

Publications

Published more than 95 papers in International Journals and International/National Conferences.

Book Published

- **Geometric Modelling of Statically and Dynamically Symmetric Patterns, Theory, Generation, and Applications**, Publishers VDM Publishing House Ltd., VDM Verlag Germany, 2009, ISBN: 978-3-639-21108-5.

Projects

- 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. 28.8 lacks). (Status: On-going)
- Principal Investigator, **Similarity Detection and Process Information Retrieval from Large Part-Drawing Databases of Manufacturing Companies: A Mini Industry 4.0 Solution**, 2019-20 – Awarded by alfaTKG India Pvt Ltd, (Funding Rs. 8.26 lacs). (Status: On-going)
- Co-Principal investigator, **Designing CAD System for Identifying Neurodegenerative Diseases using Prediction Model**, 2019-20 – Awarded by National project Implementation Unit, Govt. of India (Funding Rs. 8.59 lacs). (Status: On-going).
- Consultant, “Vetting of RPF document for the appointment of Project Development and Management Consultant 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 (Funding Rs. 25.26 lacs).

Conferences/Workshops/Events Organized

1. Organized “**Design Workshop 2019 (DeW 2019)**” at IIITDM Jabalpur in collaboration with Ministry of Foreign Affairs, Japan, March 8 - 10, 2019.
2. 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.
3. Organized a GIAN course on “**Data Mining Algorithms for Graph, Text, and Streaming Data**” at IIITDM Jabalpur, December 19-27, 2017.

4. Organized “***Design Workshop 2017 (DeW 2017)***” at IIITDM Jabalpur in collaboration with Ministry of Foreign Affairs, Japan, December 9-11, 2017.
5. Organized a Faculty Development Programme on “***Fundamentals of Databases***” at IIITDM Jabalpur, June 23-July 3, 2017.
6. Organized “***Design Workshop 2019 (DeW 2019)***” at IIITDM Jabalpur in collaboration with Ministry of Foreign Affairs, Japan, March 8 - 10, 2019.
7. 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.
8. Organized a GIAN course on “***Data Mining Algorithms for Graph, Text, and Streaming Data***” at IIITDM Jabalpur, December 19-27, 2017.
9. Organized “***Design Workshop 2017 (DeW 2017)***” at IIITDM Jabalpur in collaboration with Ministry of Foreign Affairs, Japan, December 9-11, 2017.
10. Organized a Faculty Development Programme on “***Fundamentals of Databases***” at IIITDM Jabalpur, June 23-July 3, 2017.
11. Organized a workshop on “***Self Defense***” at IIITDM Jabalpur, March 08, 2017.
12. Organized a Faculty Development Programme on “***Advanced data Mining Algorithms and their Scalability for Big Data***” from January 2-7, 2017.
13. Organized a Faculty Development Programme on “***Basic data Mining Algorithms and their Scalability for Big Data***” from August 16- 21, 2016.
14. Organized “***National Conference on Smart Cities (NCSC 2016)***”, November 25-26, 2016.
15. Organized a Pre-placement workshop on “***Programming, Technical & Personal Skills for Campus Interviews***” from October 18-20, 2013.
16. Organized a workshop on “***Emerging Trends in Information Technology in University Management***” at IIITDM Jabalpur, September 09-13, 2013.
17. 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.
18. Organized a workshop on “***Programming***”, at IIITDM Jabalpur, January 27-29, 2013.
19. Organized a three day workshop on “***Wavelets and its Applications (WOW 2012)***”, at IIITDM Jabalpur, July 13-15, 2012.
20. Organized a three day workshop on “***Sharpen Your Programming Skills***”, at IIITDM Jabalpur, November 5-7, 2011.
21. Organized **inaugural Raman Distinguished Lecture Series by Dr. Anil Kakodkar**, Former Chairman, DAE, at IIITDM Jabalpur, March 17, 2010.
22. Organized a two day workshop on “***e-Governance - with specific reference to Policing***” at IIITDM Jabalpur, August 9-10, 2007.
23. 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. Chaired a session at 2019 IEEE Conference on *Information and Communication Technology* (CICT 2019), at IIIT Allahabad, Prayagraj, India, December 6-8, 2019.
2. Delivered an invited talk on “**Image and Vision Engineering Research @ IIITDM**”

Jabalpur” at Nosov Magnitogorsk State Technical University, Magnitogorsk, Russia, June 5, 2019.

3. Delivered a keynote address on “**Biometric Security**” at National Seminar on Recent Trends in Artificial Intelligence Computing, HCET, Jabalpur, India, March 30, 2019.
4. 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.
5. 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.
6. Chaired a session at 2018 Conference on *Information and Communication Technology* (CICT 2018), at IIITDM Jabalpur, India, October 26-28, 2018.
7. 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.
8. Delivered a keynote address on “**Internet of Things, Big Data, and Security Challenges**” at National Level Workshop on Internet of Things, Department of Computer Engineering, Institute of Engineering, MET Bhujbal Knowledge City, Nasik, India, January 12, 2018.
9. 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, 25-27 October, 2017.
10. 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, 25-27 October, 2017.
11. 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.
12. 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.
13. Chaired a session at IEEE 7th International Conference on Computational Intelligence and Communication Networks (CICN 2015), Jabalpur, India, December 12-14, 2015.
14. 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 University of Mumbai, January 3-7, 2015.
15. Chaired a session at IEEE 9th International Conference on Industrial and Information Systems (ICIIS 2014), at AVV IIITM Gwalior, India, December 15-17, 2014.
16. Delivered an expert lecture on “**Image Processing with MATLAB**” during 4th National Workshop on Application of MATLAB for Engineering Computations (AMEC 2014) at IIITDM Jabalpur, December 1-5, 2014.
17. Delivered an expert lecture on “**Content Based Image Retrieval**” during “National Conference of Engineering and Applied Sciences” at Jabalpur Engineering College, Jabalpur, March 22-23, 2013.
18. Delivered an expert lecture on “**Wavelets**” during National Workshop on Wavelets and its

Applications (WoW 2012) at IIITDM Jabalpur, July 13-15, 2012.

19. Delivered an expert lecture on “**Content Based Image Retrieval**” at Sugiyama Lab, Tokyo Institute of Technology, Japan, June 2011.
20. 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.
21. Delivered a keynote address on “**Biometric Technologies for Security**” and chaired a session at National Conference on Futuristic Trends in Engineering and Technology, JNCDELM College of Engineering, Sirsa, India, January 28-29, 2008.
22. 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 Transaction on Multimedia.*
2. *IEEE Transactions on Systems, Man and Cybernetics: Systems*
3. *ACM Transactions on Management Information Systems*
4. *ACM Transactions on Multimedia Computing Communications and Applications*
5. *Pattern Recognition Letters, Elsevier.*
6. *Signal Processing: Image Communication, Elsevier.*
7. *Journal of Visual Languages and Computing, Elsevier.*
8. *Journal of Visual Communication and Image Representation, Elsevier.*
9. *Computer Methods and Programs in Biomedicine, Elsevier.*
10. *Neural Computing and Applications, Springer.*
11. *Circuits, Systems & Signal Processing, Springer.*
12. *Multimedia Tools and Applications, Springer.*
13. *IET Computer Vision.*
14. *Journal of the Optical Society of America.*
15. *Brain and Behavior, Wiley.*
16. *Journal of Electronic Imaging, SPIE.*
17. 14th IEEE International Conference on Automatic Face and Gesture Recognition (FG 2019), Lille, France, May 14-18, 2019.
18. 4th IEEE International Conference on *Recent Advances in Computational Systems* (RAICS 2018), at Trivandrum, Kerala, India, December 6-8, 2018.
19. 2018 Conference on *Information and Communication Technology* (CICT 2018), at IIITDM Jabalpur, India, October 26-28, 2018.
20. 2017 Conference on *Information and Communication Technology* (CICT 2017), at AVV IIITM Gwalior, Gwalior, India, November 3-5, 2017.
21. International Conference on *Computer Vision and Image Processing* (CVIP 2016), at Indian Institute of Technology Roorkee, India, February 26 – 28, 2016.
22. 3rd IEEE International Conference on *Image Information Processing* (ICIIP 2015), at Jaypee University of Information Technology Shimla, India, December 21-24, 2015.
23. IEEE *UP Section Conference on Electrical, Computer and Electronics* (UPCON 2015), at

- Indian Institute of Information Technology Allahabad, India December 4-6, 2015.
24. 2nd International Symposium on Computer Vision and the Internet (VisionNet'2015), Kerala, India, August 10 -13, 2015.
 25. 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.
 26. 9th IEEE International Conference on *Industrial and Information Systems* (ICIIS 2014), at AVV IIITM Gwalior, Gwalior, India, December 15-17, 2014.
 27. International Symposium on *Computer Vision and the Internet* (VisionNet'2014), GCET, at Greater Noida- Delhi NCR, India, September 24-27, 2014.
 28. IEEE Students' Technology Symposium, at IIT Kharagpur, India, Feb 28-March 2, 2014.
 29. 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.
 30. 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.
 31. 2nd IEEE International Conference on *Image Information Processing* (ICIIP 2013), at Jaypee University of Information Technology Shimla, India, December 9-11, 2013.
 32. 2nd International Conference on *Intelligent Interactive Technologies and Multimedia* (IITM 2013), at IIIT Allahabad, India, March 9-11, 2013.
 33. 4th International Conference on *Intelligent Human Computer Interaction* (IHCI 2012), at IIT Kharagpur, India, December 27-29, 2012.
 34. International Conference on *Innovations in Design and Manufacturing* (InnDeM 2012), at PDPM IIITDM Jabalpur, India December 5-7, 2012.

Membership of Committees of Professional Societies/Program Committees

1. Member, ACM since 2009.
2. A life member IAENG since 2013.
3. A life member IUPRAI since 2019.
4. Committee member, *International Conference of Computational Intelligence and Intelligent Systems* (ICCIIS) of World Congress on Engineering (WCE) since WCE 2014. WCE is organized by the International Association of Engineers (IAENG).
5. Member, Advisory Committee, *Fifth International Conference on Science Technology Engineering and Mathematics* (ICONSTEM 2020), Jeppiaar Engineering College, India, March 20-21, 2020.
6. Member, Advisory Committee, International Conference on Engineering, Mathematical and Computational Intelligence (ICEMCI 2019), Jabalpur Engineering College, Jabalpur, India, December 21-23, 2019.
7. Member, Technical program committee for *Seventh International Symposium on Women in Computing and Informatics* (WCI-2019), IIITM Kerala, India, December 18-21, 2019.
8. 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.

9. Member, Technical program committee, 6th *International Symposium on Computer Vision and the Internet* (VisionNet'2019), Kerala, India, December 18-21, 2019.
10. Member, Advisory Committee, *2019 Conference on Information and Communication Technology* (CICT 2019), IIT Allahabad, India, December 6-8, 2019.
11. Member, Advisory Committee, *Fifth International Conference on Science Technology Engineering and Mathematics* (ICONSTEM 2019), Jeppiaar Engineering College, India, March 14-15, 2019.
12. Member, Steering Committee, *2018 Conference on Information and Communication Technology* (CICT 2018), IITM Jabalpur, India, October 26-28, 2018.
13. Conference Chair, Third International Conference on Computer Vision and Image Processing (CVIP 2018), IITDM Jabalpur, India, September 29-October 1, 2017.
14. 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
15. Member, Technical Program Committee, *Fifth International Conference on Signal Processing and Integrated Networks* (SPIN 2018), Noida, India, February 22-23, 2018.
16. Member, Technical Program Committee, International conference on Advances in computing and Data Sciences (ICACDS 2018), Uttaranchal University, Dehradun, Uttarakhand, India, April 20-21, 2018.
17. 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.
18. Member, Steering Committee, *Conference on Information and Communication Technology* (CICT 2017), ABV-IIITM Gwalior, India, November 3-5, 2017.
19. Area Chair, Second International Conference on Computer Vision and Image Processing (CVIP 2017), IIT Roorkee, India, September 09-12, 2017.
20. Member, Technical Program Committee, *Fourth International Conference on Signal Processing and Integrated Networks* (SPIN 2017), Noida, India, Feb 2-3, 2017.
21. Member, Technical program committee, 3rd *International Symposium on Computer Vision and the Internet* (VisionNet'2016), Jaipur, India, September 21-24, 2016.
22. Member, Technical program committee, International Conference on Advances in Computing and Data Sciences (ICACDS-2016), Ghaziabad, India, November 11-12, 2016.
23. 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.
24. 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.
25. Member, Technical program committee, *International Conference on Computer Graphics, Vision and Information Security* (IEEE CGVIS), KIIT University, India, November 2-3, 2015.
26. Member, Technical program committee, 2nd *International Symposium on Computer Vision and the Internet* (VisionNet'2015), Kerala, India, August 10 -13, 2015.
27. 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.

28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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 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 visit to 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 India-Japan Joint Project IIITDM Jabalpur during the period December 2007. Sponsored by MOFA, Japan and MHRD, India.

Research Guidance (as on December 2019)

- Ph.D. Thesis Supervised – Eight
- Ph.D. Thesis Submitted – None
- Ph.D. Supervision under progress – Four
- M.Tech. Supervision under progress – Three
- M.Tech. Thesis Supervised – Eleven
- Guided various MCA and MS Projects. Supervised 8 MCA projects and 3 MS projects.
- Developed and established laboratories. Taught & developed a number of courses.
- Guided various B.Tech. Projects in the areas of Computer Graphics, Data Structures, Database Management Systems, and Image Processing.

Corporate Accomplishments

- 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 2010)

2019

1. *Tanveer M., Khanna Pritee, Prasad M. and Lin C.T.*, “Disease Prediction by using enhanced Machine Learning Algorithms for Categorical Medical Dataset”, ACM Transactions on Multimedia Computing Communications and Applications, July 2019 (Accepted).
2. *Cheng E.J., Prasad M., Yang J., Khanna Pritee, Chen B., Tao X., Young K., Lin C.*, “A Fast Fused Part-based Model with New Deep Feature for Pedestrian Detection and Security Monitoring”, Measurement, October 9, 2019, In Press, DOI: <https://doi.org/10.1016/j.measurement.2019.107081>
3. *Gour Neha and Khanna Pritee*, “Speckle Denoising in Optical Coherence Tomography Images Using Residual Deep Convolutional Neural Network”, Multimedia Tools and Applications (Accepted).
4. *Kaur Harkeerat and Khanna Pritee*, “Privacy Preserving Remote Multi-Server Biometric Authentication using Cancelable Biometrics and Secret Sharing”, Future Generation Computing Systems, 102, Jan 2020, pp. 30-41, DOI: <https://doi.org/10.1016/j.future.2019.07.023>.
5. *Gupta Ashish., Seal Ayan and Khanna Pritee*, “Divergence based SLIC”, Electronics Letters, 55(14), July 2019, pp. 783-785, DOI: 10.1049/el.2019.1092.
6. *Beheshti Iman, Mishra Shiwangi, Sone Daichi, Khanna Pritee and Matsuda Hiroshi*, “T1-weighted MRI-driven Brain age estimation in Alzheimer's disease and Parkinson's disease, Aging and Disease, 11(3), July 2019, pp. DOI: <http://dx.doi.org/10.14336/AD.2019.0617>.
7. *Kane Lalit and Khanna Pritee*, “Depth Matrix and Adaptive Bayes Classifier based

- Dynamic Hand Gesture Recognition”, *Pattern Recognition Letters*, 120, April 2019, pp. 24 – 30, DOI: 10.1016/j.patrec.2019.01.003.
8. *Gour Neha and Khanna Pritee*, “Automated Glaucoma Detection using GIST and Pyramid Histogram of Oriented Gradients (PHOG) Descriptors”, *Pattern Recognition Letters*, April 2019, In Press, <https://doi.org/10.1016/j.patrec.2019.04.004>.
 9. *Gupta Nidhi, Bhatele Puspraj, and Khanna Pritee*, “Glioma Detection on Brain MRIs using Texture and Morphological Features with Ensemble Learning”, *Biomedical Signal Processing and Control*, 47, January 2019, pp. 115-125, DOI: doi.org/10.1016/j.bspc.2018.06.003.
 10. *Gupta Nidhi, Bhatele Puspraj, and Khanna Pritee*, “Customized use of Expectation Maximization for Glioma Identification from Brain MRIs”, 15th International Conference on Machine Learning and Data Mining (MLDM 2019), July 20-25, 2019, New York, USA, Vol 1, pp. 63- 77, ibai- publishing.
 11. *Kashyap Kanchan Lata, Bajpai M. K., and Khanna Pritee*, “Mesh-free based variational level set evolution for breast region segmentation and abnormality detection using mammograms”, 13th Inter-Research-Institute Student Seminar in Computer Science (IRISS 2019), Feb 6-7, 2019, Kochi, India. (Accepted).
 12. *Siddiqui Mohammed Arshad, Jain Arpit, Gaur Neha, and Khanna Pritee*, “Unsupervised Single-View Depth Estimation for Real Time Inference”, Fourth International Conference on Computer Vision & Image Processing (CVIP-2019), July 20-25, 2019, Jaipur, India (accepted).
 13. *Kashyap Kanchan Lata, Bajpai M. K., and Khanna Pritee*, “Classification of Breast Tissue Density”, Fourth International Conference on Computer Vision & Image Processing (CVIP-2019), July 20-25, 2019, Jaipur, India (accepted).
 14. *Kaur Harkeerat and Khanna Pritee*, “PolyCodes: Generating cancelable biometric features using polynomial transformation”, *Journal of Network and Computer Applications* (under-review).
 15. *Singh Vijaya, Seal A., Bharti K. K., and Khanna Pritee*, “A Hybrid Feature Selection Method for Text Classification”, *Computational Intelligence*, Wiley (under-review).

2018

16. *Mishra Shiwangi, Beheshti Iman and Khanna Pritee*, for the Alzheimer's Disease Neuroimaging Initiative, A Statistical Region Selection and Randomized Volumetric Features Selection Framework for Early Detection of Alzheimer's Disease. *Int J of Imaging Systems and Technology*, September 2018, pp. 1–13, DOI: 10.1002/ima.22290.
17. *Saxena Shruti, Pandey Shreelekha and Khanna Pritee*, “A Semi-supervised Domain Adaptation Assembling Approach for Image Classification”, *Pattern Analysis and Applications*, 21(3), August 2018, pp. 813-827, DOI: <https://doi.org/10.1007/s10044-017-0664-1>.
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Conferences/Workshops/Courses Attended

- 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 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 key-note address on "Technical Performance testing of Biometric Systems".
- Finishing School Program for Engineering Graduates at 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 key-note 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 key-note 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, Academic Staff College, Kurukshetra University, India, June 07-July 03, 2004.

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