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Manesh B. Kokare, Ph.D. (IIT Kharagpur)

BOYSCAST Post-Doctoral Fellow (University of California Santa Barbara, USA)

1. **Full Name:** Dr. Manesh Babanrao Kokare
2. **Date of Birth:** 11th Aug 1972
3. **Designation:** Professor and Head of Electronics and Telecommunication Engineering Department.
4. **Academic Record:**

Institute/ University	Degree	Academic Year	Field of Specialization
University of California Santa Barbara, USA	BOYSCAST Post-Doctoral Fellow	Aug 2011-Sept 2012	Retinal Image Analysis/ Retrieval
Indian Institute of Technology Kharagpur, INDIA	Ph.D.	July 2004	Content Based Image Retrieval, Image Processing
Swami Ramanand Teerth Marathwada University Nanded, INDIA	M.E. Electronics	May 1999	Electronics Specialization in Computer Technology
Marathwada University, Aurangabad, INDIA	B.E. Electronics	May 1993	Electronics
Board of Tech Exam Mumbai, INDIA	Diploma in Industrial Electronics Engineering	May 1990	Industrial Electronics

5. **Professional Appointments/Employment:**

University/College	Designation	Period		Teaching/Research / industry Experience
		From	To	
S.G.G.S. College of Engg. and Tech Nanded	Professor	9 th Nov 2013	Till date	24 years
S.G.G.S. College of Engg. and Tech Nanded	Associate Professor	9 th Nov 2008	8 th Nov 2013	
S.G.G.S. College of Engg. And Tech Nanded	Assistant Professor	9 th Nov 2005	8 th Nov 2008	

S.G.G.S. College of Engg. And Tech Nanded	Senior Lecturer	9 th Nov 2000	8 th Nov 2005	1.5 years
S.G.G.S. College of Engg. And Tech Nanded	Lecturer	12 th Oct 1995	8 th Nov 2000	
Dynamix Dairy Ltd, Baramati	Junior Engineer	16 th Aug 1995 to 2 nd Oct 1995.		
Desai Electronics Pvt Ltd, Pune	Junior Engineer	21 st Jan 1995 to 12 th Aug 1995		
Superb Product Pvt Ltd. Pune	Trainee Engineer	1 st April 1994 to 20 th Jan 1995		

7. Membership of Scientific and Professional Societies:

- IEEE Member (No.80467316)
- Member IEEE Signal Processing Society
- Member IEEE Computer Society
- Life Member of Indian Society for Technical Education (ISTE) (LM-48043)
- Life Member of the Institution of Electronics and Telecommunication Engineers (M-183827).
- Life Member of System Society of India.

8. Research Productivity:

- Total Papers published: 88
- Cumulative Citation Index: 1779
- H- Index: 19
- i10- Index: 29
- Funding fetched: INR 520 Lakhs
- Cumulative Impact factor: 45 +
- Research Projects Completed: 3
- Conferences Organized: 2
- STTP/ Workshops Organized: 12
- Invited talks in STTP/ Workshop/ Conferences: 200+

9. Honors and Awards:

1. **2013-14: “Best Teacher Award”** for the year 2013-14, from Swami Ramanand Teerth Marathwada University, Nanded in recognition with excellent work in educational field. Award carries **Certificate, University Memento, and Cash prize of Rs. 10,000/-**
2. **2010-11:** Received prestigious **“BOYSCAST Fellowship”** for the year 2010-11, from Department of Science and Technology, Government of India to carryout Advanced Research work at University of California, Santa Barbara, USA from Aug 2011- Sept 2012. (**Fellowship amount US\$ 39,000/-**)
3. **2009: “Best Achievements in Career”** Awarded by Alumni of Shri Guru Gobind Singhji institute of Engineering and Technology, Nanded, in Silver Jubilee Alumni Meet held 26th -27th December 2009.
4. **2009: “Best Paper Award”** in National Conference on Signal and Image Processing organized jointly by Institution of Engineering and Technology-UK (IET) and College of Engineering Pune (CoEP), 19-20th September 2009.
5. **2007:** Biography is published in **“Who’s Who in the World 2007”**.
6. **2005-06:** Received prestigious **“AICTE Career Award for Young Teachers (CYAT)”** of **Rs. 10.5 Lakh** for the year 2005-06, from All India Council for Technical Education (AICTE), New Delhi INDIA.

7. **2004:** Recipient of “**IAPR Travel Bursary Award of \$ 500**” from International Association of Pattern Recognition, UK, for Research paper presented in International conference on Pattern Recognition 2004, Cambridge U. K.
8. **2004:** Recipient of “**100% Financial Support from AICTE**” to present research paper in IEEE ICPR 2004, at Cambridge U.K.
9. Working as a “**Reviewer of Twenty International Journals**” and published 58 papers in reputed international/ national journals and conferences.
10. **1990:** Received Rs. 100 as a scholarship for securing 2nd rank in polytechnic and overall 19th rank in Diploma in Maharashtra State.

10. No. of M. Tech Students Guided: 20

11. No. of Ph.D. Students Guided:

- Number of students completed Ph.D.: 11
- Number of students in progress.: 5

12. Teaching Areas/ Courses Prepared To Teach:

• **At undergraduate level:**

- i. Feedback Control System
- ii. Network and Lines
- iii. Electronic Circuit Design
- iv. Digital Signal Processing
- v. Multimedia System

• **At postgraduate level:**

- i. Computer Vision
- ii. Fuzzy Logic
- iii. Digital Image Processing
- iv. Multimedia System Applications

13. Research Publications:

Refereed Journals:

- [1]. **Manesh Kokare**, P.K. Biswas, and B.N. Chatterji, “Texture image retrieval using new rotated complex wavelet filters,” *IEEE Trans. Systems, Man, and Cybernetics- Part B*. Vol.35, No.6, pp. 1168-1178, Dec 2005. (**Impact Factor 6.22**)
- [2]. **Manesh Kokare**, P.K. Biswas, and B.N. Chatterji, “Rotation invariant texture image retrieval using rotated complex wavelet filters,” *IEEE Trans. On System, Man and Cybernetics Part-B.*, Vol. 36(6), pp.1273-1282, Dec 2006. (**Impact Factor 6.22**)
- [3]. **Manesh Kokare**, P.K. Biswas, and B.N. Chatterji, “Cosine-modulated wavelet packet based texture features for content based image retrieval,” *IETE Journal of Research*, Vol. 51, No.6, pp. 477-483, Nov-Dec 2005. (**Impact Factor 0.909**)
- [4]. **Manesh Kokare**, P.K. Biswas, and B.N. Chatterji , “Texture image retrieval using rotated wavelet,” *Pattern Recognition Letter*, Vol. 28, pp.1240-1249, May 2007. (**Impact Factor 1.995**)
- [5]. **Manesh Kokare**, B.N. Chatterji and P.K. Biswas, “Cosine-modulated wavelet based texture features for content based image retrieval,” *Pattern Recognition Letter*, Vol. 25 (4), pp. 391-398, March 2004. (**Impact Factor 1.995**)
- [6]. **Manesh Kokare**, B.N. Chatterji, and P.K. Biswas, “A survey on current content-based image retrieval methods,” *IETE Journal of Research*, Vol.48, no.3&4, pp.261-271, May-Aug 2002. (**Impact Factor 0.909**)
- [7]. Sushma Kejgir and **Manesh Kokare**, “Optimization of Bit Plane Combination for Efficient Digital Image Watermarking,” *International Journal of Computer Science and Information Security*, Vol. 4, Aug 2009. (**Impact Factor 0.553**)
- [8]. Lenina Birgale and **Manesh Kokare**, “A Survey on Iris Recognition”, ICFAI University

- Journal of Electrical and Electronics Engineering, Vol.2, No. 4, pp. 7-26, October 2009.
- [9]. M. S. Shiradhonkar and **Manesh Kokare**, "Document Image Retrieval: An Overview," *International Journal of Computer Applications*, 1(7), pp. 128-133, Feb 2010.
 - [10]. Pushpa Patil, **Manesh Kokare**, "Relevance feedback in Content-based image retrieval: a Review", *Journal of Applied Computer Science and Mathematics*, Suceava, Romania, Issue No.8.Nov.2010.
 - [11]. M.S.Shirdhonkar and **Manesh Kokare**, "Discrimination between printed and handwritten text in document", *International Journal of Computer Application (Special Issue on Recent Trends in Image Processing and Pattern Recognition)*, pp. 131-134, 2010.
 - [12]. Lenina Birgale and **Manesh Kokare**, "Iris Recognition Without Iris Normalisation," *Journal of Computer Science*, vol.6,issue 9, pp. 1042-47, 2010.
 - [13]. S D Bharkad and **Manesh Kokare**, "Sine Transform Based Finger Print Matching," *International journal of Power, Control, Signal and Computation (IJPCSC)*, Vol.II, 2010.
 - [14]. M. S. Shiradhonkar and **Manesh Kokare**, "Off-Line Handwritten Signature Retrieval using Curvelet Transforms," *IJCSI International Journal of Computer Science Issues*, 8 (8), 2010.
 - [15]. M. S. Shiradhonkar and **Manesh Kokare**, "Off-Line Handwritten Signature Identification Using Rotated Complex Wavelet Filters," *IJCSI International Journal of Computer Science Issues*, Vol. 8, Issue 1, pp. 478-482, January 2011.
 - [16]. Sangita D. Bharkad, and **Manesh Kokare**,"Performance Evaluation of Distance Metrics: Application to Fingerprint Recognition," *International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI)*, 25 (6): pp.777-806, 2011. **(Impact Factor: 1.11)**.
 - [17]. Sangita D. Bharkad and **Manesh Kokare**," Hartley Transform Based Fingerprint Matching," *Journal of Information Processing*, 8 (1): pp.85-100, March 2012.
 - [18]. Sangita D. Bharkad and **Manesh Kokare**, " Rotated Wavelet Filters Based Fingerprint Recognition," Accepted for publications in *International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI)*, 26(3), May 2012. **(Impact Factor: 1.11)**.
 - [19]. Lenina Birgale and **Manesh Kokare**, "Comparison of Color and Texture for Iris Recognition," *International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI)*, 26(3), pp, May 2012. **(Impact Factor: 1.11)**.
 - [20]. Lenina Birgale and **Manesh Kokare**, " Iris Recognition using Ridglets," *Int Journal of Korea Information Processing Society (KIPS)*, April 2012.
 - [21]. Sangita D. Bharkad and **Manesh Kokare**, "Modified FFT features for fingerprint matching" *International journal of Signal and Imaging Systems Engineering*, 6(3), pp.150-157, 2013.
 - [22]. Sushma Kejgir and **Manesh Kokare**, "*Semi-Blind Digital Image Watermarking Algorithm using Complex Number Principle Approach*," *Journal of Information Processing Systems*, Sept 2015.
 - [23]. Jayant Jagtap and Manesh Kokare, "Human age classification using facial skin aging features and artificial neural network," *Cognitive Systems Research*, 40 (2016), pp116.128, May 2016.
 - [24]. Jayant Jagtap and Manesh Kokare, "Human age classification using appearance features and artificial neural network," *International Journal of Biometrics* (In Press), June 2016.
 - [25]. Nilesh Bhosle and Manesh Kokare, "A Heuristic Optimization Approach for Semantic based Image Retrieval using Relevance Feedback," *International Journal of Applied Pattern Recognition*, • • [Volume 3, Issue 4](#) DOI: 10.1504/IJAPR.2016.082230, June 2016.
 - [26]. Aarti Manjramkar and **Manesh Kokare**, "Automated Red Lesion Detection Algorithms: An Overview" *Springer Journal of Medical and Biological Engineering (JMBE)*, 2017. **(Impact Factor: 1.82)**.
 - [27]. Kamble, Ravi, **Manesh Kokare**, Girish Deshmukh, Fawnizu Azmadi Hussin, and Fabrice Mériaudeau. "Localization of Optic Disc and Fovea in Retinal Images using Intensity Based Line Scanning Analysis." Accepted for publications in *Computers in Biology and Medicine-Elsevier (2017)*. **(Impact Factor: 1.836)**.
 - [28] Aarti Manjramkar and **Manesh Kokare**, "Connected Component Clustering Based Hemorrhage

- Detection in Color Fundus Image” Accepted for publication in *International Journal of Intelligent Engineering and Systems*” ISSN: 2185-3118.
- [29] Sangita Bharkad and Manesh Kokare, “Fingerprint Matching Based on Dimension Reduced DCT Feature Vectors,” *Journal of Information Processing Systems*, Vol. 13, No.4, pp. 852-862, Aug 2017. **(Impact factor: 1.3)**
- [30] Jayant Jagtap and Manesh Kokare, “Human age classification via face images; a survey,” *International Journal of Applied Pattern Recognition*, Vol.4 No.3, pp. 246-260, Sept 2017.
- [31] Prasanna Porwal, Samiksha Pachade, Ravi Kamble, **Manesh Kokare**, Girish Deshmukh, Vivek Sahasrabudhe, and Fabrice Meriaudeau, “Indian Diabetic Retinopathy Image Dataset (IDRiD): A Database for Diabetic Retinopathy Screening Research,” *Data — Open Access Journal of Data in Science, Data* 2018, 3(3), 25; <https://doi.org/10.3390/data3030025>, July 2018.
- [32] Prasanna Porwal, Samiksha Pachade, **Manesh Kokare**, Luca Giancardo and Fabrice Meriaudeau, “Retinal image analysis for disease screening through local tetra patterns,” *Computer in Biology and Medicine*, 102(2018), pp. 200-210, Nov 2018. **(Impact Factor: 2.286)**
- [33] Jayant Jagtap and Manesh Kokare, "Human Age Classification using Appearance and Facial Skin Aging Features with Multi-class Support Vector Machine" *International Journal of Biometrics*, 2019 Vol.11 No.1, pp.22 – 34.
- [34] Prasanna Porwal, Samiksha Pachade, **Manesh Kokare**, Luca Giancardo and Fabrice Meriaudeau “Retinal Vasculature Segmentation and Measurement Framework for Fundus and SLO Images” *Bio-cybernetics and Biomedical Engineering, Elsevier Publications*, Under Revision. **(Impact Factor: 2.159)**
- [35] Prasanna Porwal, Samiksha Pachade, Ravi Kamble, **Manesh Kokare**, + 57 Authors “IDRiD: Diabetic Retinopathy - Segmentation and Grading Challenge,” *Medical Image Analysis Elsevier Publications*, Accepted for publication. **(Impact Factor: 8.88)**

Papers Published in Conferences:

- [36] **Manesh Kokare**, P.K. Biswas, and B.N. Chatterji, “Rotation invariant texture features using rotated complex wavelet for content based image retrieval,” *Proc. of IEEE International Conference on Image Processing (ICIP) 2004*, pp. 393-396, 24th – 27th Oct 2004, Singapore.
- [37] **Manesh Kokare**, P.K. Biswas, and B.N. Chatterji, “Rotated complex wavelet based texture features for content based image retrieval,” *Proc. Of IEEE International Conference on Pattern Recognition (ICPR) 2004*, pp. 652-655. 23rd- 26th Aug. 2004, Cambridge (U.K.).
- [38] **Manesh Kokare**, B.N. Chatterji, and P.K. Biswas, “Rotated wavelet based texture features for content based image retrieval,” *Proc. 5th International Conference on Advances in Pattern Recognition (ICAPR 2003)*, pp. 243- 247 , 10th –13th Dec 2003, Kolkata (INDIA).
- [39] B.N. Chatterji, **Manesh Kokare**, A. Adhipathi Reddy, Rajib Kumar Jha, “Wavelets for content based image retrieval and digital watermarking for multimedia application,” *Proc. Fourth International Conference on Information, Communications & Signal Processing -Fourth IEEE Pacific-Rim Conference On Multimedia (ICICS-PCM 2003)*, pp. 812-816, 15th -18th December 2003, Singapore.
- [40] **Manesh Kokare**, B.N. Chatterji and P.K. Biswas, “Comparison of similarity metrics for texture image retrieval,” *Proc. IEEE TENCON Conference*, pp. 571-575, 15th-17th Oct 2003, Bangalore.
- [41] **Manesh Kokare**, B.N. Chatterji and P.K. Biswas, “Wavelet transform based texture features for content based image retrieval,” *Proc. 9th National Conference on Communications (NCC 2003)*, pp. 443-447, 31st Jan- 2nd Feb 2003, Chennai (INDIA).
- [42] **Manesh Kokare**, B.N. Chatterji, and P.K. Biswas, “M –band wavelet based texture features for content-based image retrieval,” in *Proc. of Indian Conference on Vision, Graphics and Image Processing (ICVGIP 2002)*, pp.173-178, Dec 2002, Ahemadabad (INDIA).

- [43] **Manesh Kokare**, B.N. Chatterji and P.K. Biswas, "Dimensionality reduction of tree structured wavelet transform texture features for content based image retrieval," in *Proc. Seventh International Conference on Control, Automation, Robotics and Vision (ICARCV 2002)*, Vol.3, pp. 1647-1652, 2nd-5th Dec 2002, Singapore.
- [44] Mahagaonkar Renuka, **Manesh Kokare**, D. D. Doye, "Optimization of Weight Factors (α) for Binary Image Data Hiding," in *Proc. Of National Conference on Electrical Engineering (NCEED)*, Vishakhapatnam, June 2005.
- [45] Lenina Birgale, **Manesh Kokare**, and Dhramapal Doye, "Colour and Texture Features for Content Based Image Retrieval," *IEEE International Conference on Computer Graphics, Imaging and Visualisation*, 26-29 July 2006, Sydney, Australia.
- [46] Swati Kamthekar, D. D. Doye, **M. B. Kokare**, "Sports Summarization Methods," *Technical Symposium, Government College of Engineering, Aurangabad*, pp. 174-176, Jan 23-24, 2006.
- [47] **Manesh Kokare**, "CT image retrieval using wavelet transform," *Proc. IEEE- International Conference on Signal and Image Processing*, pp.344-347, Vol.1, 7-9 Dec 2006, Hubli, India.
- [48] S. G. Kejgir and **Manesh Kokare**, "A Wavelet-Based Good Fidelity Digital Image Watermarking using Subband Threshold Computing," *Proc. IEEE- Int. Conference on Signal and Image Processing*, pp.8-13, Vol.1, 7-9 December 2006, Hubli, India.
- [49] **Manesh Kokare**, "CT image retrieval using M-Band wavelet transform," *National conference on Emerging Trends in Signal Processing and Communication ETSPC* , pp. 411- 415, Dec 27-29, 2007, MAE Alandi, Pune, India.
- [50] **Manesh Kokare**, " CT image retrieval using Tree Structured Cosine Modulated Wavelet Transform," *Proc. IEEE- International Conference on Digital Image Processing*, pp.159-162, 7-9 March 2009, Bangkok, Thailand.
- [51] Lenina Birgale and **Manesh Kokare**, "Iris Recognition Using Discrete Wavelet Transform", *Proc. IEEE- International Conference on Digital Image Processing*, pp.147-141, 7-9 March 2009, Bangkok, Thailand.
- [52] Rajeshree Rokade, Dharmapal Doye and **Manesh Kokare**, "Hand Gesture Recognition by Thinning Method", *Proc. IEEE- International Conference on Digital Image Processing*, pp.284-287, 7-9 March 2009, Bangkok, Thailand.
- [53] Ulka S. Rokade, Dharmapal Doye and **Manesh Kokare**, "Hand Gesture Recognition Using Object Based Key Frame Selection", *Proc. IEEE- International Conference on Digital Image Processing*, pp.288-291, 7-9 March 2009, Bangkok, Thailand.
- [54] M.S.Shirdhonkar and **Manesh Kokare**, "Labeling of Signature in Scanned Document images" proceeding of *National Seminar on Recent Trends in Image Processing and Pattern Recognition*, held at Bidar, pp. 42-44, Feb.15-16, 2010.
- [55] M.S.Shirdhonkar and **Manesh Kokare**, "Off-Line Handwritten Signature Identification using Dual Tree Complex Wavelet Transforms", proceeding of *4th International Conference Computer Application in Electrical Engineering-Recent Advances, held at Indian Institute of Technology, Roorke* , pp.40. Feb. 2010.
- [56] Pushpa Patil, and **Manesh Kokare**, "Relevance feedback in image retrieval" proceeding of national seminar on recent trends in image processing and pattern recognition. Feb.15 16, 2010, pp. 37-41 Bidar (Karnataka).
- [57] Pushpa Patil, and **Manesh Kokare**, "Relevance feedback in Content-based image retrieval" Proceeding of 4th International Conference Computer Application in Electrical Engineering-Recent Advances. Feb. 19 to 20, 2010, pp. 40, IIT Roorke.
- [58] S. G. Kejgir, M. R. Banswakar, and **Manesh Kokare**, "Robust Digital Image watermarking Using M-band Wavelet transform and Subband Threshold computing", *Int. Conference on Advances in Computing*, pp.371-374, 21 Feb.2008.
- [59] S. G. Kejgir, M. R. Banswakar, and **Manesh Kokare**, "Digital Image Watermarking: A Technical Review", *Int. Conference on Emerging Technologies and Applications in Engg., Tech. and Sciences* , pp.704-708, 13 Jan. 2008.
- [60] S. G. Kejgir, M. R. Banswakar, and **Manesh Kokare**, "Comparative Study of Wavelets for Good Fidelity and Robust Digital Image Watermarking", *IEEE Int. Conference cognition and Recognition*, pp.362-366, 10-12 April 2008.
- [61] Lenina, Birgale, and **Manesh, Kokare**, "Iris Recognition Without Iris Normalisation," *Proceeding of Indian Conference on Computer Vision, Graphics, Image and Video Processing, ICCVIGVP09*, pp. 249-51, Mar 13 -14, 2009, Nagpur, India.

- [62] **Manesh Kokare**, "CT Image Retrieval Using Dual Tree Complex Wavelet Packet Transform," Proc. IEEE- International Conference on Digital Image Processing, pp.288-291, 7-9 Feb 2010, Singapore.
- [63] S D Bharkad and **Manesh Kokare**, "Survey on Current Finger Print Matching Methods," Proc. Of International Conference on Computer Networks and Security, pp.35-355, 2008.
- [64] S D Bharkad and **Manesh Kokare**, "Comparison of Transform Based Features for Finger Print Matching," *Proc. Of IEEE International Conference on Electronic Design and Signal Processing*, December 2009.
- [65] S D Bharkad and **Manesh Kokare**, "Sine Transform Based Finger Print Matching," Proc. of International Conference on Information Science and Applications, pp. 56-59, Feb 2010.
- [66] Sangita Bharkad and **Manesh Kokare**, "Fingerprint Matching Using M-Band Wavelet Transform," *IEEE-International Conference On Advances In Engineering, Science And Management (ICAESM -2012)*, pp.26-32, March 30, 31, 2012.
- [67] Swati Kamthekar and **Manesh Kokare**, "Replay Detection," *Proceedings of the National Conference "NCNTE-2012" Mumbai*, pp. 48-52, Feb. 24-25, 2012.
- [68] Pushpa Patil and **Manesh Kokare**, "Texture Image Retrieval using Greedy Method," Accepted for Publication in *International conference on Advances in Computing*, 4th- 6th July 2012, Bangalore, India.
- [69] Sangita Bharkad and **Manesh Kokare**, "Fingerprint Matching using Discrete Wavelet Packet Transform," Proc. IEEE 3rd International of Advanced Computing Conference (*IACC -2013*), pp. 1183-1188, February 22-23, 2013.
- [70] M.S.Shirdhonkar and **Manesh Kokare**, "Offline Hand-Written Signature Retrieval," *ACM, Proceedings of the CUBE International Information Technology Conference*, pp.290-293, 2012.
- [71] Jayant Jagtap and **Manesh Kokare**, "Human Age Classification using 2-D Real dual Tree Discrete Wavelet Transform," *Proc. Of National Conference on Communication and Networking Technologies*, pp. 47-50, March 15-16, 2013, Nanded.
- [72] Nilesh Bhosale and **Manesh Kokare**, "A relevance feedback approach for semantic based image retrieval," *Proc. Of National Conference on Communication and Networking Technologies*, pp.17-20, March 15-16, 2013, Nanded.
- [73] Aarti Manjramkar and **Manesh Kokare**, "A Rule Based Expert System for Microaneurysm Detection in Digital Fundus Images," *In proc. of IEEE International Conference on Computational Techniques in Information and Communication Technologies (ICCTICT)*, New Delhi March 2016.
- [74] Jayant Jagtap and **Manesh Kokare**, "Human Age Classification using Facial Skin Analysis and Multi-Class Support Vector Machine," in *Proc. of IEEE International Conference on Signal and Information Processing (IConSIP-2016)*, pp. 73-77, 6th -8th Oct 2016.
- [75] Nilesh Bhosle and **Manesh Kokare**, "Random Forest Based Long-term Learning for Content Based Image Retrieval," in *Proc. of IEEE International Conference on Signal and Information Processing (IConSIP-2016)*, pp. 178-181, 6th -8th Oct 2016.
- [76] Ravi Kamble and **Manesh Kokare**, "Automatic Blood Vessel Extraction Technique using Phase Stretch Transform in Retinal Images," in *Proc. of IEEE International Conference on Signal and Information Processing (IConSIP-2016)*, pp. 276-280, 6th -8th Oct 2016.
- [77] Janabai Parekar, Prasanna Porwal and **Manesh Kokare**, "Automatic Retinal Image Registration using Fully Connected vascular Tree," in *Proc. of IEEE International Conference on Signal and Information Processing (IConSIP-2016)*, pp. 316-319, 6th -8th Oct 2016.
- [78] Prasanna Porwal and **Manesh Kokare**, "A Novel Method to Remove Bright Artifacts for Enhancing Lesion Detection in Retinal Images," in *Proc. of IEEE International Conference on Signal and Information Processing (IConSIP-2016)*, pp. 207-210, 6th -8th Oct 2016.
- [79] Ravi Kamble and **Manesh Kokare**, "Detection of Microaneurysm using Local Rank Transform in Color Fundus Images", in *Proc. of IEEE International Conference on Image Processing (ICIP)*, Beijing, China, pp. 4442 – 4446, Sept 2017.
- [80] Aarti Manjramkar and **Manesh Kokare**, "Decision trees for Microaneurysms detection in color fundus images," *2017 International Conference on Innovations in Green Energy and Healthcare Technologies (IGEHT)*, pp.1-4, 2017.
- [81] Prasanna Porwal, Samiksha Pachade, Atharva Kadethankar, Apurv Joshi, Vedant Patwardhan, Ravi Kamble, **Manesh Kokare**, and Fabrice Meriaudeau "Automatic Segmentation of Optic Disc by Gradient Minimization Based Approach," International Conference on Intelligent and Advanced System (ICIAS), Malaysia, 2018.

- [82] Apurv Joshi, Atharva Kadethankar, Vedant Patwardhan, Prasanna Porwal, Samiksha Pachade, **Manesh Kokare**, and Fabrice Meriaudeau “Glaucoma Screening Through Level Set for Optic Disc Segmentation and Textural Features for Classification,” *International Conference on Intelligent and Advanced System (ICIAS)*, Malaysia, 2018.

Book Chapters:

- [83]. Sangita Bharkad and **Manesh Kokare** “Fingerprint Identification: Ideas, Influences, and Trends of the New Age,” *Pattern Recognition , Machine Intelligence, and Biometrics, Edited by Patrick S P Wang, Springer Publications, Chapter 17*, pp. 411-439, 2011.
- [84]. Lenina Birgale and **Manesh Kokare** “Recent Trends in Iris Recognition,” *Pattern Recognition , Machine Intelligence, and Biometrics, Edited by Patrick S P Wang, Springer Publications, Chapter 29*, pp. 785-793, 2011.
- [85]. Prasanna Porwal, Samiksha Pachade, **Manesh Kokare**, Girish Deshmukh, and Vivek Sahasrabudhe “Automatic Retinal Image Analysis for the Detection of Diabetic Retinopathy,” *Biomedical Signal and Image Processing in Patient Care*, pp. 146-161, IGI Global, 2018.
- [86]. Samiksha Pachade, Prasanna Porwal, and **Manesh Kokare** “A Novel Unsupervised Framework for Retinal Vasculature Segmentation,” *Advanced Computational and Communication Paradigms*, pp. 490-497, vol 475, Springer, Singapore, 2018.
- [87]. Samiksha Pachade, Prasanna Porwal, and **Manesh Kokare** “A Novel Method to Detect Fovea from Color Fundus Images” *Computing, Communication and Signal Processing*, pp. 957-965, vol 810, Springer, Singapore, 2019.
- [88]. Rashmi Raut, Visharad Sapate, Abhay Rokde, Samiksha Pachade, Prasanna Porwal, and **Manesh Kokare** “Laser Scar Classification in Retinal Fundus Images using Wavelet Transform and Local Variance,” *International Symposium on Computer Vision and Machine Intelligence in Medical Image Analysis, SCMM-2019 - Springer AISC*.

14. Foreign University Visit Details:

Sr. No	Name of Overseas University visited	Duration	Agency which sponsored the visit	Purpose of visit/ Brief objective of the work done	Achievement/Outcome
1	IEEE –ICIRD 2018 Thailand	11 th May 2018	IEEE –ICIRD 2018 Thailand	To deliver keynote speech in IEEE – ICIRD 2018 Thailand	To share state-of-art research developments in Image Processing and Computer Vision at internal level.
2	ISBI- 2018, Washington DC, USA	31 st March to 9 th April 2018	Institute	To conduct online Challenge on Diabetic Retinopathy on “IDRiD”	Conducted online Challenge on Diabetic Retinopathy on IDRiD, database developed in CoE. This is accepted as international standard database and shared globally on CoE website. This will help to get wide recognition to institute at international level.
3	UTP Malaysia	1 st to 7 th August 2016	Invited by UTP	Preparing Joint Proposal and other collaborative Research Activities.	Prepared five proposals for international funding and Identified opportunities for students exchange for 2016-17.
4	NTU, Singapore	29th-30th Aug 2013	TEQIP	To visit Signal and Image Processing Laboratory	Got exposure with State-of-the- art Laboratory.
5	UTP, Malaysia	23rd-28th August 2013	TEQIP	For attending 2 short courses and signing MoU with UTP Malaysia.	Signed MoU with UTP for research collaboration.
6	University of California, USA	15th Aug 2011 To 14th Sept 2012	Department of Science and Technology, Govt. of India	Post-Doctoral Research	Developed three New Algorithms in Diabetic Retinopathy
7	University of Iowa, USA	19th Aug 2012 To 23rd Aug 2012	Department of Science and Technology, Govt. of India	To interact with researchers in medical imaging	Delivered invited talk and got hands on experience on capturing the fundus retinal images.
8	Singapore	27 th Feb 2010 To 1 st March 2010	AICTE Career Award for Young Teacher	For presenting research paper and chairing the session	Presented research paper in IEEE ICDIP 2010 and chaired one session of that conference.
9	Bangkok	7 th March 2009 To 9 th March 2009	AICTE Career Award for Young Teacher	For presenting research paper	Presented research paper in IEEE ICDIP 2009.
10	University of California Santa Barbara, USA	From 21 th Jan 2008 To 23 rd Jan 2008	AICTE Career Award for Young Teacher	Attending Workshop	Attended workshop on Bio Image Processing.
11	Cambridge University U. K.	From 21 st Aug 2004 To 24 th Aug 2004.	AICTE, New Delhi	For presentation of Research paper in IEEE ICPR 2004	Presented research paper in ICPR 2004 conference. Also got “Travel Bursary Award of \$500” for the same paper from International Association of Pattern Recognition.

15. Conference Activity/ Participation:

Sr. No.	Name of the Conference	Organiser/Location	Dates	
			From	To
1	IEEE –ICIRD 2018 Thailand	IEEE –ICIRD 2018 Thailand	11 th May 2018	11 th May 2018
2	IEEE ISBI- 2018	IEEE ISBI- 2018, Washington DC, USA	4 th April 2018	7 th April 2018
3	IConSIP 2016	IITB, COE Pune, SGGS Nanded and SVCoe Tirupari at Nanded	5 th Oct 2018	8 th Oct 2018
4	TEQIP II: Best Policies and Practices	SPFU , IEQIP II and SGGSIE&T Nanded	10 th January 2014	11 th January 2014
5	IEEE International Conference on Digital Image Processing 2010	IEEE Computer Society, Singapore	27 th Feb 2010	1 st March 2010
6	IEEE International Conference on Digital Image Processing 2009.	IEEE Computer Society, Bangkok, Thailand	7 th March 2009	9 th March 2009
7	International Conference on Emerging Technologies and Applications in Engineering, Technology and Sciences	Saurashtra University Rajkot	13 th January 2008	14 th January 2008
8	IEEE International Conference on Signal and Image Processing 2006	BVB College Hubli, India	8 th Dec 2006	10 th Dec 2006
9	IEEE International Conference on Pattern Recognition 2004.	University of Surrey, Cambridge, U. K.	23 rd Aug 2004	26 th Aug 2004
10	International Conference on Advances in Pattern Recognition	Indian Statistical Institute, Kolkata, India	16 th Dec 2003	18 th Dec 2003
11	IEEE TENCON 2003	Indian Institute of Science, Bangalore, India	16 th Oct 2003	18 th Oct 2003
12	NCC 2003	Indian Institute of Technology, Chennai, India	31 st Jan 2003	2 nd Feb 2003
13	ICVGIP 2002	Indian Research and Space Organization, Ahmadabad, India	16 th Dec 2002	18 th Dec 2002

16. Short Term Courses/ Workshop Participation:

Sr. No.	Name of the Program	Organized By	Sponsored by	Duration	Dates
1	Management Capacity Enhancement Programme	Indian Institute of Management (IIM), Udaipur	TEQIP-II	1 Week	4 th April- 9 th April , 2016
2	AICTE sponsored Two Weeks Faculty Development Program on Multirate Signal Processing and Wavelets	SGGSIE&T Nanded	AICTE	2 Weeks	29 th June to 10 th July 2015
3	Mathematical and Statistical Foundation to	SGGSIE&T Nanded	CoE-TEQIP II	2 weeks	28 th May to 6 th

	Signal and Image Processing				June 2015
4	Wavelets and its Application	SGGSIE&T Nanded	CoE-TEQIP- II	1 Week	8 th -12 th Dec 2014
5	Three Days Workshop on Thermography	I Tech Solution Pune	TEQIP- II	3 Days	10 th -12 th Nov 2014
6	Three Days Workshop on “Training and Identification of Master Trainers and Educators on Outcome Based Accreditation Process and Parameters	SGGSIE&T Nanded	TEQIP-II	3 Days	21 st -23 rd March 2014
7	Winter School on Biometrics for Secured Authentication: Fundamentals and Advances	SGGSIE&T Nanded	TEQIP-II	1 Week	23 rd - 27 th Dec 2013
8	Workshop on Biodesign	SGGSIE&T Nanded	TEQIP-II	2 Days	8 th -9 th Aug 2013
9	IETE Approved National Level One Week STTP on “Wavelets”	Sinhgad Institute of Technology and Science Narhe Pune	IETE	1 Week	13 th -18 th Dec 2012
10	International Workshop on Digital Image Video Analytics	IIT Madras	TEQIP	2-Days	21 st -22 nd Dec 2012
11	IEEE National Level Workshop on Wavelets and Applications	S G G S Institute of Engineering and Technology, Vishnupuri, Nanded	IEEE Signal Processing Chapter, Bombay Section	3-Days	8 th -10 th June 2009
12	Capacity Building Program for World Class Institution	Sinhgad Institute of Engineering Lonavala	TEQIP	4 Days	May 2008
13	International Workshop on Bioimage informatics, Biological Imaging, Computer Vision and Data Mining.	University of California, Santa Barbara, USA	AICTE	3 Days	17 th -18 th January 2008
14	Short Term Training Program on “Advanced Project Management Using MS-Project and Primavera	S G G S Institute of Engineering and Technology, Vishnupuri, Nanded	TEQIP	4 Days	11 th -14 th December 2007
15	Staff development Programme on Advanced Digital Signal Processing	Sinhgad College of Engineering Pune	AICTE	2 Weeks	3 rd -13 th December 2007

16	TEQIP Workshop on “Intellectual Property Rights”	S G G S Institute of Engineering and Technology, Vishnupuri, Nanded	TEQIP	2 Days	13 th -14 th August 2006
17	AICTE Sponsored Two weeks Induction Programme on “New Concepts, Methods and advanced Techniques in Speech Processing, Image Processing and Pattern recognition”	S G G S Institute of Engineering and Technology, Vishnupuri, Nanded	AICTE	2 Week	15 th -26 th May 2006
18	TEQIP Short Term Training Programme on “Recent Trend in Signal and Image Processing”.	S G G S Institute of Engineering and Technology, Vishnupuri, Nanded.	TEQIP	3 Days	16 th -18 th January 2006.
19	TEQIP Management Development Programme on “Personal Effectiveness for Institutional Development”.	Welingkar’s MDP, Mumbai	TEQIP	3 Days	23 rd to 25 th January 2006
20	QIP STTP on “Image and Video Processing for Multimedia Applications”.	E & ECE Dept. I.I.T. Kharagpur	QIP	2 Week	19 th Nov-30 th Nov 2001
21	ISTE Approved STTP on “Water Management: Basic Principles and Interdisciplinary Approach”.	CWM Dept. S.G.G.S. College of Engg. & Tech Vishnupuri Nanded	ISTE	2 Week	25 th June – 7 th July 2001
22	ISTE Approved STTP on “Neural Network and Fuzzy logic: Theory and Applications.”	Instrumentation Engg Dept., S.G.G.S. College of Engg. & Tech. Vishnupuri, Nanded.	ISTE	2 Week	11 th – 23 rd June June 2001
23	Short Term Training Programme on “Programming with C and C++”	EC/CSE Dept., S.G.G.S. College of Engg. & Tech. Vishnupuri, Nanded.	ISTE	3 Week	29 th June-19 th July 2000
24	ISTE Approved STTP on “System Engineering”	CWM Dept. S.G.G.S. College of Engg. & Tech Vishnupuri Nanded	ISTE	2 Week	18 th – 28 th June 2000
25	AICTE sponsored ISTE STTP on “Digital Signal and Image Processing”	EC/CSE Dept., S.G.G.S. College of Engg. & Tech. Vishnupuri, Nanded	AICTE/ISTE	2 Week	5 th -17 th June 2000
26	Q I P short Term Training Programme on “Safety in Metallurgical Industries”	Production Engg. Dept., S.G.G.S. College of Engg. & Tech. Vishnupuri, Nanded	AICTE	1 week	17 th To 23 rd June 1996

17. Research Consultancy/ Training Offered

Sr. No.	Year	Brief Description of Activity	Revenue Generated
1.	2015	Two Days Workshop on Effective Research Methodology, at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, on 11-12 th April 2015.	--
2.	2014	One Week STTP on “Wavelets and its Applications” on 8 th -12 th December 2014.	Rs 1,59,000/-
3.	2010	One day Workshop on Effective Research Methodology, at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, on 23 rd January 2010.	Rs. 83,750/-
4.	2010	Second one day Workshop on Effective Research Methodology, at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, on 20 th March 2010.	Rs. 28,250/-
5.	2009	IEEE National Level Workshop on Wavelets and Applications, at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, during 8 th -10 th June 2009.	Rs.1.6 Lakh
6.	2006	A Short Term Training Program on “Recent Trends in Signal and Image processing” for Engineering Faculty members under TEQIP at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, during 16-18 th Jan 2006.	1.56 Lakh
7.	2006	AICTE Sponsored Staff Developments Two weeks Induction Program on “New Concepts, Methods, and Advanced Techniques in Speech Processing, Image Processing, and Pattern Recognition” 15-25 th May 2006.	AICTE sponsored
8.	2006	Two Day’s Workshop on “Intellectual Property Right” under Technical Education Quality Improvement Program at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, during 13-14 th Aug 2006.	TEQIP Sponsored

18. Invited Talks at International level:

1. Keynote Address on “Challenges and Research Opportunities in Image Processing and Computer Vision” in *IEEE –ICIRD 2018 at Bangkok, Thailand on 11th May 2018.*
2. Conducted Online Challenge on Diabetic Retinopathy Database *IDRiD at IEEE-ISBI 2018 on 4th April 2018 at Washington DC, USA.*
3. Invited research talk delivered on, " Content Based Image Retrieval: Applications to Texture and Retinal Image Retrieval," at University of Iowa, USA, 23rd August 2012.
4. Invited talk on, “Wavelet Based Features for Texture Image Retrieval,” at University of California Santa Barbara, California State, USA, on 18th Nov 2006.
5. Invited talk delivered on, “Wavelet Based Features for Texture Image Retrieval,” at Computer Vision Center, University De Autonoma, Barcelona, Spain, 20th June 2006.
6. Invited talk on, “Wavelets and its application to Satellite Image Processing,” at Institute De Cartographic, Catalonia, Barcelona, Spain, 29th June 2006.

19. Invited Talks at National level:

1. Conducted One Day Workshop on “Effective Research Methodology” at B N College of Engineering Pusad, Maharashtra, 21st Sept 2019.

2. Invited talk on “Research Opportunities and Challenges in AI and Machine Learning” at Cummins College of Engineering Pune in Two Weeks AICTE Sponsored STTP on 17th Sept 2019.
3. Conducted Two Days Workshop on “Effective Research Methodology” at SSGM College of Engineering Shegaon, Maharashtra, 2nd- 3rd Aug 2019.
4. Invited Talk on “Challenges and Research Opportunities in AI and Machine Learning” at Basweshawar Engineering College Bagalkot, Karnataka, June 2019.
5. Conducted Two Weeks STTP on “Image Processing, Wavelets and Machine Learning” at Terna College of Engineering Nerul Mumbai, Maharashtra, 12th June -22nd June 2019.
6. Conducted One Week STTP on “Wavelets and Applications” at St Joseph Engineering College Mangalore, Karnataka, 1st- 5th January 2019.
7. Invited Talk on Machine Learning in STTP organized by AISSM College of Engineering Pune, 17th March 2018.
8. Keynote Address on “Challenges and Research Opportunities in Image Processing and Computer Vision” in *1st IEEE International Conference on Intelligent Systems and Information Management*, 05-06 October 2017 at MGM's JNEC Aurangabad.
9. Conducted one Week STTP on “Wavelets and Machine Learning” at VES College of Engineering Mumbai, during 3rd -8th July 2017.
10. Conducted STTP on “Image Processing and Pattern Recognition” at VIT Pune on 26-29th June 2017.
11. Conducted Two Days Workshop on “Effective Research Methodology” at Sant Gajanan Maharaj College of Engineering, Shegaon 22nd -23rd Aug 2017.
12. Invited talk on “Research Opportunities in Image Processing” in *2016 IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE 2016) is hosted by “All India Shviaji Memorial Society’s Institute of Information Technology”*, Pune, Maharashtra, India during December 19-21, 2016.
13. Invited Talk on “Wavelets and its Applications ” in one Week STTP Aspects of MATLAB Tools in Communication ,Control and Signal Processing with Simulink at JNEC Aurangabad on 2nd December 2016.
14. Conducted Two Week STTP on “Wavelets and Machine Learning” at K J Somaiya College of Engineering Mumbai, during 15th-25th Nov 2016.
15. Invited talk in Two Days National Workshop on Wavelet Transform and its Application in Signal Processing at IPS Academy, Indore on 5th Nov 2016.
16. One Day workshop on “Research Methodology” at PES College of Engineering Aurangabad on 20th August 2016.
17. Invited talk in One Week STTP on “Application of Computer Vision and Machine Learning” at Sinhgad College of Engineering, Kondhwa Pune, from 2nd March to 6th March 2016.
18. Invited talk on “Fundamentals of Image Processing and Wavelet Transform” in two days’ Workshop in “Advances in Image and Signal Processing” at JSPM Narhe Technical Campus during 4th and 5th March 2016.
19. One Day workshop on “Research Methodology” at Sinhgad Academy of Engineering, Kondhwa, Pune on 7th June 2016.
20. Expert Talk on “Research Paper Writing” at NBN Sinhgad School of Engineering, Ambegaon Pune on 8th June 2016.
21. Tutorial session on “Design of Rotated Wavelets and its Applications” in IEEE International Conference on Advances in Signal Processing organized by Cummins College of Engineering Pune on 9th June 2016.
22. Expert talk on “Wavelet Transform” at Chh. Shahu College of Engineering Aurangabad on 10th June 2016.

23. Conducted Two Days Workshop on “Wavelet Theory “at Government College of Engineering Aurangabad 12th- 13th April 2016.
24. Expert lecture in AICTE Sponsored Two Week STTP on “Selected Topics in Signal Processing and Machine Intelligence with Hands-on” at College of Engineering Pune on 26th May 2016.
25. Conducted One Week STTP on “Wavelets and its Application” at Yashwantrao Chavan College of Engineering Nagpur, during 28th April to 4th May 2016.
26. Conducted Two Days Workshop on “Multi-rate , Wavelet Transform and its Applications” at K J Somaiya College of Engineering Vidyavihar Mumbai, during 18th-19th March 2016.
27. Guest lecture on “Pattern Recognition” at College of Engineering Pandharpur on 25th- 26th March 2016.
28. Key note address on “Recent Advances in Image Processing” in 3rd National Conference on ACCET- Advancement in Communication, Computing, and Electronics Technology, at MES CoE Pune on 11th Feb 2016.
29. Key note Address on “Opportunities and Challenges in Image Processing” in Third National Conference Communication Computing and Networking 2016 at MES College of Engineering Pune, on 12th February 2016.
30. Invited talk on 1 Days workshop on “Mathematical Modelling in Signal Processing” at RMD Sinhgad School of Engineering, Warje, Pune, on 29th Jan 2016.
31. Invited talk on 2 Days workshop on “Pattern Recognition and its Application” at Sanjeevani Education Societies College of Engineering Kopergaon on 22-23rd January 2016.
32. Two Days workshop on “Effective Research Methodology “at Hi Tech Engineering College Aurangabad on 10-11th January 2016.
33. Invited talk on “Intelligent Computing Algorithm and Applications”, at MIT College of Engineering Pune, on 3rd Dec. 2015.
34. Invited Talk at Faculty Development Program on, “Effective Research Methodology”, at Bapurao Deshmukh College of Engineering, Sewagram, Wardha, on 22nd Nov. 2015.
35. Invited talk on “Image Transforms”, at Shri Ramdeobaba College of Engineering & Management, Nagpur, on 9th Oct. 2015.
36. Invited talk on “Wavelet and Its Applications”, at Suresh Deshmukh College of Engineering Wardha, on 8th Oct. 2015.
37. Conducted One day workshop on “Pattern Recognition & its Applications” organized at G. H. Raisonni College of Engineering and management Wagholi, Pune, on 16th Sept. 2015.
38. Invited talk on “Wavelet and Its Applications”, at M. S. Bidve College of Engineering Latur, on 7th Sept. 2015.
39. Conducted Two Days workshop on “Effective Research Methodology” at S V College of Engineering Tirupati on 21-22nd July 2015.
40. Invited talk on “Research Opportunities in Speech & Image Processing”, at Mukesh Patel School of Technology Management & Engineering, Mumbai on 17th July 2015.
41. Invited talk on, “Wireless Sensors and Networks” at The Institution of Electronics and Telecommunication Engineers Pune centre, Pune, on 1st – 2nd Aug. 2015.
42. Invited talk on “Image Processing”, at All India Shri Shivaji Memorial Society’s Institute of Information Technology, on 24th Aug. 2015.
43. Short Term Training Program on, “Advanced Techniques in Research Methodology”, at Sharad Institute of Technology college of Engineering, on 23th – 24th June 2015.
44. Invited talk on “Trends in Signal Processing and its Industrial Application”, at Rajiv Gandhi College of Engineering, Nagpur, on 16th June. 2015.
45. Invited talk on “Machine Learning” at Sinhgad College of Engineering Pune, on 13th June 2015.
46. Invited talk on, “Research Methodology and issues”, at Dr. P. G. Halakatti College of Engineering and Technology, Bijapur, on 8th June 2015.

47. Invited talk on, "Soft Computing", at Sinhgad College of Engineering and Technology, Vadgaon, Pune, on 12th June 2015.
48. Invited talk on, "Teaching Pedagogy and Soft Skill" at Sharad Institute of Technology, Polytechnic, Ichalkaranji, on 12th May 2015.
49. Invited talk on "Wavelets and its Application in Computer Vision" at Yeshwantrao Chavan College of Engineering Nagpur, on 24th April 2015.
50. Invited talk on, "Research Methodology" at Maharashtra Institute of Technology, Pune, on 13th – 14th March, 2015.
51. Invited talk on, "Wavelets and Application using MATLAB" at Bharati Vidyapeeth's College of Engineering for Women, Pune, on 7th – 8th March, 2015.
52. Invited talk on "Wavelets and its Application in Signal & Image Processing" at Sinhgad Academy of Engineering, Kondhwa, Pune, on 4th -8th Feb 2015.
53. Invited Talk on, "Research Methodologies" at S. B. Patil College of Engineering, Indapur, on 17th Jan. 2015.
54. Invited talk on "Research Methodology" at Karmaveer Baburao Ganpatrao Thakare College of Engineering on 15th Feb. 2014.
55. Invited talk on, "Interdisciplinary Applications of Digital Signal Processing" at G H Raisoni College of Engineering Wagholi Pune, on 23rd Jan 2014.
56. Invited talk on, "Research Methodology: Tools and Techniques" at Dr. J. J. Magdum College of Engineering Jaysingpur, Kolhapur, on 7th Jan 2014.
57. Invited plenary talk on "Modeling and Simulation in Engineering and Technology" at Godavari College of Engineering Jalgaon, on 16 Feb. 2014.
58. Conducted One week workshop on "Wavelets and Application" at Dr. P. G. Halakatti College of Engineering and Technology, Bijapur, on 9th – 13th June 2014.
59. Short Term Training Program on, "Research Methodologies in Engineering and Science" organized by Vishwakarma Institute of Information Technology, Pune, on 13th- 17th Sep. 2014.
60. Conducted two day Faculty Development Program on, "Research Methodology" at Deogiri Institute of Engineering and Management Studies, Aurangabad, on 28th – 29th Nov. 2014.
61. Invited Talk on "Literature Survey and Problem Formulation" at Bhivarabai Sawant College of Engineering & Research, Narhe, on 14th Nov.2014.
62. Invited Talk on "Wavelet Transform" at M. S. Bidve Engineering College, Latur, on 9th Nov.2014.
63. Invited talk on, "Research Methodology and LaTeX" at Annasaheb Dange College of Engineering & Tech., Ashta, Sangli, on 13th – 18th Oct. 2014.
64. Invited Talk on, "Image Processing and Machine Learning", at N. B. Navale Sinhgad College of Engineering, Solapur, on 24th – 26th Dec. 2014.
65. Short Term Training Program on, "Signal and Image Processing", organized by Zeal College of Engineering Pune, 15th- 19th April 2013.
66. Short Term Training Program on, " Image Processing with Matlab," organized by MGMs College of Engineering Nanded, July 2013.
67. Invited Talk on, "Control System and its Applications", at Department of E & TC Engineering, Shram sadhana Bombay Trust's College of Engineering, Bambhori, on 28th Sept. 2013.
68. Invited talk on, "Digital signal Processing and Applications" at College of Engineering Bhambori, Jalgaon, on 28th Sept 2013.
69. Invited talk on "Image Processing and Wavelets" at Appa College of Engineering Gulbarga (Karnataka) on 21st Sept 2013.
70. Invited talk on "Wavelets and its Application" at BSWCOE Wagholi Pune, on 20th Sept 2013.
71. Invited Talk on" Wavelets" at College of Engineering Ramtek, 5th Sept 2013.

72. Invited talk on, "Signal & Image Processing with Wavelet" at Veermata Jijabai Technological Institute, Mumbai, on 16th – 20th Dec, 2013.
73. Invited Talk on, "Image Processing and Machine Learning", at Sinhgad College of Engineering, Vadgaon, Pune, on 3rd – 7th Dec. 2013.
74. Short Term Training Program on, "Wavelets and Application" organized by Sinhgad College of Engineering Narhe, Pune, 12th Dec- 16th Dec 2012.
75. Conducted Two days workshop on "Effective Research Methodology" organized at by R C Patel College of Engineering Shirpur, on 25-26th June 2011.
76. Conducted Two days workshop on "Effective Research Methodology" organized by ISTE Chapter of G H Raisoni College of Engineering Wagholi Pune, on 7-8th January 2011.
77. Conducted one day workshop on "Effective Research Methodology" at College of Engineering Kopargaon on 31st January 2010.
78. Conducted one day workshop on "Effective Research Methodology" at MIT College of Engineering Aurangabad on 6th February 2010.
79. Invited talk on "Application of Digital Image Processing" at Army Institute of Technology (AIT), Pune on 2nd June 2010.
80. Invited talk on "Wavelet based features for texture image" at Army Institute of Technology (AIT), Pune on 2nd July 2010.
81. Invited talk on "Wavelets and Content Based Image Retrieval" at Walchand College of Engineering, Sangli, on 15th Sept 2010.
82. Conducted Two days workshop on "Effective Research Methodology" organized by Symbiosis International University Pune, Dec 2010.
83. Invited talk on "Image Compression" in STTP organized by HiTech College of Engineering Aurangabad, 25th Nov 2009.
84. Invited talk on "Wavelets and its Applications" in STTP organized by G H Raisoni College of Engineering Pune, 26th Nov 2009.
85. Three Days Workshop on , "Signal and Image Processing" organized by Government College of Engineering Aurangabad, April 2007.
86. TEQIP sponsored short Term Training on "Signal and Image processing" organized by Rajaram Bapu College of Engineering Sakrale, 19-20 March 2007.
87. TEQIP sponsored short Term Training on "Signal and Image Processing" organized by Vikhe Patils College of Engineering Ahemadnagar March 2007.
88. TEQIP sponsored short Term Training on "Nonlinear Image Processing" organized by Kashibai Navale College of Engineering Pune April 2007.
89. TEQIP sponsored short Term Training on "Wavelets and its Application" organized by MAE Alandi College of Engineering Aug 2007.
90. Short Term Training on "Recent Trends in Information Technology" organized by BLDE's College of Engineering Bijapur Oct 2007.
91. Invited talk on "Complex Wavelets and its Applications" in national level conference organized by D. Y. Patil College of Engineering Pune, Sept 2007.
92. TEQIP Short Term Training Programme on , "Recent Trends in Signal and Image Processing" Organised by SGGSI & T, Nanded during 16th – 18th Jan 2006.
93. National Workshop on, "Advances in Signal and Image Processing 2006" organized by J. N. T. University during 27th – 28th Feb 2006 at Kakinada (Andra Pradesh), India
94. National Workshop on, "Frontier Research Issues in Pattern Recognition and Image Processing," organized by New Horizon College of Engg. Bangalore, 23-24th March 2006.
95. Two Days National Workshop on "Pattern Recognition and Image Processing: A Multidisciplinary Research Perspective," Organized by K. B. N. College of Engineering, Gulbarga Karnataka, 15th -16th May 2006.

96. ISTE Short Term Training Programme on, “Advances in Signal Processing,” organized by College of Engineering Ambajogai, 3rd -15th July 2006.
97. Short Term Training programme on, “Image Processing” Organised by Academic Staff College, Dr. B. A. Marthwada University, Aurangabad during 05th –24th Dec 2005.
98. QIP Short Term Training Program on, “Image Processing and Multimedia Systems” organized by V. J. T. I. Mumbai during 7th June To 2nd July 2004 at Mumbai, India.
99. Workshop on, “Recent Trends and Advances in Image Processing” organized by J. N. T. University during 30th Dec To 31st Dec 2003 at Kakinada (Andra Pradesh), India.
100. QIP ISTE short-term training programme on “Image and Video Processing for Multimedia Applications” organized at Indian Institute of Technology Kharagpur, 19th -30 Nov 2001.

20. Expert Service To Profession:

- Working as reviewer for following international journals:
 1. IEEE Transactions on Image Processing, *IEEE Publications*.
 2. IEEE Transactions on System, Man, and Cybernetics-Part B, *IEEE Publications*.
 3. IEEE Transactions on System, Man, and Cybernetics-Part A, *IEEE Publications*.
 4. IEEE Transactions on Multimedia, *IEEE Publications*.
 5. IEEE Transaction on Circuits and Systems for Video Technology, *IEEE Publications*.
 6. Pattern Recognition Letter, *Elsevier Publications*.
 7. International journal of Image Vision and Computing, *Elsevier Publications*.
 8. International Journal on Pattern Analysis and Applications, *Springer Publications*.
 9. Signal Processing, *Elsevier Publications*.
 10. Signal Processing Letter.
 11. International Journal of Pattern Recognition and Artificial Intelligence, *World Scientific*.
 12. International Journal of Digital Signal Processing, *Elsevier Publications*.
 13. Journal of Medical System, *Springer Publications*.
 14. Journal of X-Ray Science and Technology, *University of Oklahoma*.
 15. Journal of Information Science, *Elsevier Publications*.
 16. Image Science Journal, published by *Royal Photographic Society by Maney Publications*.
 17. Computers and Electrical Engineering, *Elsevier Publications*.
 18. Journal of Digital Imaging, *Springer Publications*.
- **AICTE Expert Committee Member for evaluation** of various research proposals submitted under various schemes.
- **AICTE Expert Committee Member for approval** of New Engineering Institutes.
- **Member of Board of Innovation, Incubation and Enterprise** of Swami Ramanad Teerth University Nanded. Appointed by Vice-chancellor for a period of 5 years from 5th April 2018.

21. Short Term Courses Conducted and Coordinated

1. AICTE sponsored One Week STTP on “**Advances in Signal and Image Processing**” during 27th May to 31st May 2019.
2. TEQIP-II (CoE) sponsored One Week International STTP on “Computer Vision and Biomedical Imaging” 28-31st March 2017.
3. TEQIP-II (CoE) sponsored Two Week Short term Training Program on “Mathematical and Statistical Foundation to Signal and Image Processing” at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, during 28th May to 6th June 2015.

4. Two Days Workshop on Effective Research Methodology, at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, on 11-12th April 2015.
5. One Week STTP on “Wavelets and its Applications” on 8th-12th December 2014.
6. Two Days Workshop on "Bio-design" at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded in association with Stanford India Bio-design Center, AIIMS New Delhi, on 8th-9th August 2013.
7. One day Workshop on Effective Research Methodology, at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, on 20th March 2010.
8. One day Workshop on Effective Research Methodology, at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, on 23rd January 2010.
9. IEEE National Level Workshop on Wavelets and Applications, at Shri Guru Gobind Singhji Institute of Engg. and Technology, Vishnupuri, Nanded, during 8th -10th June 2009.
10. Two Day’s Workshop on “Intellectual Property Right” under Technical Education Quality Improvement Program at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, during 13-14th Aug 2006.
11. AICTE Sponsored Staff Developments Two weeks Induction Program on “New Concepts, Methods, and Advanced Techniques in Speech Processing, Image Processing, and Pattern Recognition” 15-26th May 2006.
12. Short Term Training Program on “Recent Trends in Signal and Image processing” for Engineering Faculty members under TEQIP at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, during 16-18th Jan 2006.

22. Research Projects Submitted/ Completed

- a. Joint Proposal on “Low-cost Retinal Disease Diagnosis System for Blindness Prevention” jointly submitted by **Manesh Kokare (India) and Gwenole Quellec (France)** to Indo French Centre for the Promotion of Advanced Research . Proposal of **200000 Euros** is submitted in January 2018.
- b. **Project Investigator** of "Center of Excellence in Signal and Image Processing" Received **Rs. 5 corers** from NPIU India through SPFU in 2013.
- c. Completed AICTE sponsored project, “Content Based Medical Image Retrieval” under **Career Award for Young Teacher**, Dec 2005-Dec 2008. (total Financial Support from AICTE is 10.5 Lakh).
- d. **Co-Principal Investigator** of AICTE sponsored research project on “Full Duplex Intelligent System for Blind and Deaf Person” Received Rs. 8.82 Lakh from AICTE under RPS, 2007.

23. Professional and Extracurricular Activities

- a. **Coordinator of Summer Internship** under CoE in 2016, 2017 and 2018.
- b. **Program Chair** of IEEE International Conference on Signal and Information Processing (IConSIP-2016), jointly organized by IIT Bombay, College of Engineering Pune, S V College of Engineering Tirupati, and SGGIE&T Nanded at Nanded during 6th to 8th October 2016.
- c. **Publication Chair** of National Conference on Communication, Computing and Networking Technologies organized by SGGIE&T Nanded during 15th-16th March 2013.
- d. **Faculty Coordinator** of National Level Student's Technical Event "PRAGYAA 2009" held in March 2009.
- e. **Faculty Coordinator** of State Level Student's Technical Event "GenIT2K8" held in March 2008.

24. Community Involvement/ Outreach

- a. Delivered an invited talk on, “Career Opportunity after Tenth and Twelfth Standard Students,” organized by Novodaya Vidyalaya Shankarnagar, Nanded, February 2008.
- b. Delivered an invited talk on, “Opportunities in Electronics Engineering,” in Career Fair organized by Gramin Polytechnic Nanded, March 2009.

25. Administrative Responsibilities Held

- a. **Head of the Department**, Electronics and Telecommunication Engineering since 16th July 2018 to till date.
- b. **Dean Research and Development** since 16th Aug 2016 to 30th July 2018.
- c. **RUSA Institute Coordinator** since Nov 2017 to till date.
- d. **Coordinator**, "Center of Excellence in Signal and Image Processing" Sept 2013 to till date.
- e. **Professor In-charge** of "Innovation Laboratory" of institute from Sept 2012 to till date.
- f. Worked as **Controller of Examinations** from 2nd June 2008 to 6th June 2011 (Three Years).
- g. Worked as **Hostel Warden** from July 1999 to July 2001 (Two years).
- h. Worked as **Joint Chief Superintendent** for conducting Nov/ Dec 2000 SRTMU university examination at MGM’s College of Engineering Center.
- i. Worked as First Year Admission Committee member for Marthwada zone from 1996 to 2001 (Six Years).

26. References:

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