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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:** Associate Professor
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	Associate Professor	Nov 2008	Till date	18 years
S.G.G.S. College of Engg. and Tech Nanded	Assistant Professor	Oct 2005	Nov 2008	
S.G.G.S. College of Engg. and Tech Nanded	Senior Lecturer	12 th Oct 2000	30 th Sept 2005	
S.G.G.S. College of Engg. and Tech Nanded	Lecturer	12 th Oct 1995	12 th Oct 2000	

Dynamix Dairy Ltd, Baramati	Junior Engineer	16 th Aug 1995 to 2 nd Oct 1995.	1.5 years
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	

6. 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.

7. Ph. D. Thesis Title: “Wavelet Based Features for Texture Image Retrieval”.

8. Honors and Awards:

- **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/-**
- **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/-**)
- **2009: "Best Achievements in Carrier"** Awarded by Alumni of Shri Guru Gobind Singhji institute of Engineering and Technology, Nanded, in Silver Jubilee Alumni Meet held 26th -27th December 2009.
- **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.
- **2007:** Biography is published in **"Who's Who in the World 2007"**.
- **2005-06:** Received prestigious **"AICTE Career Award for Young Teachers (CYAT)"** of **Rs. 10.5. Lac** for the year 2005-06, from All India Council for Technical Education (AICTE), New Delhi INDIA.
- **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.
- **2004:** Recipient of **"100% Financial Support from AICTE"** to present research paper in IEEE ICPR 2004, at Cambridge U.K.
- Working as a **"Reviewer of Twenty International Journals"** and published 58 papers in reputed international/ national journals and conferences.
- **1990:** Received Rs. 100 as a scholarship for securing 2nd rank in polytechnic and overall 19th rank in Diploma in Maharashtra State.

9. No. of M. Tech Students Guided: 15

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

- a. Number of students completed Ph.D.: 5
- b. Number of students in progress.: 8

11. Teaching Areas/ Courses Prepared To Teach:

a. At undergraduate level:

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

b. At postgraduate level:

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

12. 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 3.007)**
- [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 3.007)**
- [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 0.2)**
- [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 1.7)**
- [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 1.7)**
- [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 0.2)**
- [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 0.123)**
- [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. Shirdhonkar and **Manesh Kokare**, "Off-Line Handwritten Signature Retrieval using Curvelet Transforms," *IJCSI International Journal of Computer Science Issues*, Vol. 8, Issue 8, 2010.
- [15]. M. S. Shirdhonkar 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.
- [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.
- [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.
- [20]. Lenina Birgale and **Manesh Kokare**, " Iris Recognition using Ridglets," Accepted for publication in *International 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]. Pushpa B Patil and **Manesh Kokare**, “Semantic Learning using Relevance Feedback,” *International Journal of Web & Semantic Technology (IJWesT)* , vol.2, no.4, pp. 139-148, 2011.
- [23]. [2] Pushpa B. Patil and **Manesh Kokare**, “Interactive image Retrieval by using Rotated Complex wavelet and Support Vector Machine,” *Journal of Information Processing Systems*, vol. 9, no.3, pp.349-364, 2013.
- [24]. [3] Pushpa B. Patil and **Manesh Kokare**, “Composite Relevance Feedback for Texture Image Retrieval,” *International Journal of Computer Science and Engineering*, vol.7, no.1, pp. 1188-1194, 2013.
- [25]. Pushpa B. Patil and **Manesh Kokare**, “ Efficient Texture Image Retrieval using Prims Algorithm with K-degree Nearest Neighbor Graph,” *International Journal of Imaging and Robotics*, vol.13, no.2, pp.12-24, 2014.

- [26]. Pushpa B. Patil and **Manesh Kokare**, “Image Retrieval with Relevance Feedback using k-Means Clustering,” *Communicated to International Journal of Computer Vision, (Springer journal)*.

Papers Published in Conferences:

- [27] **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.
- [28] **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.).
- [29] **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).
- [30] 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.
- [31] **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 (INDIA).
- [32] **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).
- [33] **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).
- [34] **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.
- [35] 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.
- [36] 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.
- [37] Swati Kamthekar, D. D. Doye, **M. B. Kokare**, “Sports Summarization Methods,” *Technical Symposium, Government College of Engineering, Aurangabad*, pp. 174-176, January 23-24, 2006.
- [38] **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.

- [39] 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.
- [40] **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.
- [41] **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.
- [42] 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.
- [43] Rajeshree Rokade, Dharmapal Doye and **Manesh Kokare**, “Hand Guesture Recognition by Thinning Method”, *Proc. IEEE- International Conference on Digital Image Processing*, pp.284-287, 7-9 March 2009, Bangkok, Thailand.
- [44] Ulka S. Rokade, Dharmapal Doye and **Manesh Kokare**, “Hand Guesture Recognition Using Object Based Key Frame Selection”, *Proc. IEEE- International Conference on Digital Image Processing*, pp.288-291, 7-9 March 2009, Bangkok, Thailand.
- [45] 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.
- [46] 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.
- [47] 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).
- [48] 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.
- [49] 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.
- [50] 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.
- [51] S. G. Kejgir, M. R. Banswakar, and **Manesh Kakore**, “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.
- [52] Lenina, Birgale, and **Manesh, Kokare**, “Iris Recognition Without Iris Normalisation,” Proceeding of Indian Conference on Computer Vision, Graphics, Image and Video Processing ICCVGIVP09, pp. 249-51, Mar 13 -14, 2009, Nagpur, India.

- [53] **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.
- [54] 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.
- [55] 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.
- [56] 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.
- [57] 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.
- [58] Swati Kamthekar and **Manesh Kokare**, "Replay Detection," *Proceedings of the National Conference "NCNTE-2012" Mumbai*, pp. 48-52, Feb. 24-25, 2012.
- [59] Pushpa B. Patil and Manesh B. Kokare, "Interactive content based texture image retrieval," in *Proc. of 2nd IEEE Int. Conf. on computer and Communication Technology (ICCCT-11)*, pp. 71-76, Sept. 15 - 17, 2011, MNNIT, Allahabad.
- [60] 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.
- [61] Pushpa B Patil and Manesh B. Kokare, "Semantic Learning in Interactive Image Retrieval", in *Proc. of Advances in Digital Image Processing and information Technology*, CCIS vol. 205, pp. 118-127, September 23~25, 2011, Tirunelveli, Tamil Nadu, India (Springer).
- [62] 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.
- [63] M.S.Shirdhonkar and **Manesh Kokare**, "**Offline Hand-Written Signature Retrieval**," *ACM, Proceedings of the CUBE International Information Technology Conference*, pp.290-293, 2012.
- [64] Pushpa B. Patil and **Manesh Kokare**, "Content Based Image Retrieval with Relevance Feedback using Riemannian Manifolds," in *proc. of 5th IEEE Int. conf. on signals and image processing (CSIP-2014)*, pp.26-29, January 8-9 2014, Bangalore .

Book Chapters:

- [65]. 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.
- [66]. 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.

13. Foreign University Visit Details:

Name of Overseas University visited	Duration	Agency which sponsored the visit	Purpose of visit/ Brief objective of the work done	Achievement/Outcome
NTU, Singapore	29th-30th Aug 2013	TEQIP	To visit Signal and Image Processing Laboratory	Got exposure with State-of-the-art Laboratory.
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.
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
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.
Singapore	27 th Feb 2010 To 1 st March 2010	AICTE Carrier 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.
Bangkok	7 th March 2009 To 9 th March 2009	AICTE Carrier Award for Young Teacher	For presenting research paper	Presented research paper in IEEE ICDIP 2009.
University of California Santa Barbara, USA	From 21 th Jan 2008 To 23 rd Jan 2008	AICTE Carrier Award for Young Teacher	Attending Workshop	Attended workshop on Bio Image Processing.
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.

14. Conference Activity/ Participation:

Sr. No.	Name of the Conference	Organiser/Location	Dates	
			From	To
i	IEEE International Conference on Digital Image Processing 2010	IEEE Computer Society, Singapore	27th Feb 2010	1st March 2010
ii	IEEE International Conference on Digital Image Processing 2009.	IEEE Computer Society, Bangkok, Thailand	7 th March 2009	9 th March 2009
iii	IEEE International Conference on Signal and Image Processing 2006	BVB College Hubli, India	8 th Dec 2006	10 th Dec 2006
iv	IEEE International Conference on Pattern Recognition 2004.	University of Surrey, Cambridge, U. K.	23 rd Aug 2004	26 th Aug 2004
v	International Conference on Advances in Pattern Recognition	Indian Statistical Institute, Kolkata, India	16 th Dec 2003	18 th Dec 2003
vi	IEEE TENCON 2003	Indian Institute of Science, Bangalore, India	16 th Oct 2003	18 th Oct 2003
vii	NCC 2003	Indian Institute of Technology, Chennai, India	31 st Jan 2003	2 nd Feb 2003
viii	ICVGIP 2002	Indian Research and Space Organization, Ahmadabad, India	16 th Dec 2002	18 th Dec 2002

15. Short Term Courses/ Workshop Participation:

Sr. No.	Name of the Program	Organized By	Sponsored by	Duration	Dates
1.	International Workshop on Digital Image Video Analytics	IIT Madras	TEQIP	2-Days	21 st -22 nd Dec 2012
2.	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
3.	Capacity Building Program for World Class Institution	Sinhgad Institute of Engineering Lonavala	TEQIP	4 Days	May 2008
4.	International Workshop on Bioimage informatics, Biological Imaging, Computer Vision and	University of California, Santa Barbara, USA	AICTE	3 Days	17 th -18 th January 2008

	Data Mining.				
5.	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
6.	Staff development Programme on Advanced Digital Signal Processing	Sinhgad College of Engineering Pune	AICTE	2 Weeks	3 rd -13 th December 2007
7.	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
8.	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
9.	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.
10.	TEQIP Management Development Programme on “Personal Effectiveness for Institutional Development”.	Welingkar’s MDP, Mumbai	TEQIP	3 Days	23 rd to 25 th January 2006
11.	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
12.	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
13.	ISTE Approved STTP on “Neural Network and Fuzzy logic: Theory and	Instrumentation Engg Dept., S.G.G.S. College of Engg. & Tech. Vishnupuri, Nanded.	ISTE	2 Week	11 th – 23 rd June 2001

	Applications.”				
14.	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
15.	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
16.	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
17.	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

16. Research Consultancy/ Training Offered

Sr. No.	Year	Brief Description of Activity	Revenue Generated
1	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
2	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
3	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
4	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
5	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/-
6	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/-

17. Invited Talks at International level:

- a. Invited research talk delivered on, " Content Based Image Retrieval: Applications to Texture and Retinal Image Retrieval," at University of Iowa, USA, 23rd August 2012.
- b. Invited talk on, "Wavelet Based Features for Texture Image Retrieval," at University of California Santa Barbara, California State, USA, on 18th Nov 2006.
- c. Invited talk delivered on, "Wavelet Based Features for Texture Image Retrieval," at Computer Vision Center, University De Autonama, Barcelona, Spain, 20th June 2006.
- d. Invited talk on, "Wavelets and its application to Satellite Image Processing," at Institute De Cartographic, Catalonia, Barcelona, Spain, 29th June 2006.

18. Invited Talks at National level:

Delivered an expert lecture in following short-term courses and national level workshop.

1. Invited talk on, "Digital signal Processing and Applications" at College of Engineering Bhambori, Jalgaon, on 28th Sept 2013.
2. Invited talk on " Image Processing and Wavelets" at Appa College of Engineering Gulbarga (Karnataka) on 21st Sept 2013.
3. Invited talk on " Wavelets and its Application" at BSWCOE Wagholi Pune, on 20th Sept 2013.
4. Invited Talk on" Wavelets" at College of Engineering Ramtek, 5th Sept 2013.
5. Short Term Training Program on," Image Processing with Matlab," organized by MGMs College of Engineering Nanded, July 2013.
6. Short Term Training Program on, "Signal and Image Processing," organized by Zeal College of Engineering Pune, 15th- 19th April 2013.
7. Short Term Training Program on, "Wavelets and Application" organized by Sinhgad College of Engineering Narhe, Pune, 12th Dec- 16th Dec 2012.
8. Conducted Two days workshop on "Effective Research Methodology" organized at by R C Patel College of Engineering Shirpur, on 25-26th June 2011.
9. Conducted Two days workshop on "Effective Research Methodology" organized by ISTE Chapter of G H Raisonni College of Engineering Wagholi Pune, on 7-8th January 2011.
10. Conducted one day workshop on "Effective Research Methodology" at College of Engineering Kopargaon on 31st January 2010.
11. Conducted one day workshop on "Effective Research Methodology" at MIT College of Engineering Aurangabad on 6th February 2010.
12. Invited talk on "Wavelets and Content Based Image Retrieval" at Walchand College of Engineering, Sangli, on 15th Sept 2010.
13. Conducted Two days workshop on "Effective Research Methodology" organized by Symbiosis International University Pune, Dec 2010.
14. Invited talk on "Image Compression" in STTP organized by HiTech College of Engineering Aurangabad, 25th Nov 2009.
15. Invited talk on "Wavelets and its Applications" in STTP organized by G H Raisonni College of Engineering Pune, 26th Nov 2009.
16. Three Days Workshop on , "Signal and Image Processing" organized by Government College of Engineering Aurangabad, April 2007.
17. TEQIP sponsored short Term Training on "Signal and Image processing" organized by Rajaram Bapu College of Engineering Sakrale, 19-20 March 2007.
18. TEQIP sponsored short Term Training on "Signal and Image Processing" organized by Vikhe Patils College of Engineering Ahemadnagar March 2007.

19. TEQIP sponsored short Term Training on “Nonlinear Image Processing” organized by Kashibai Navale College of Engineering Pune April 2007.
20. TEQIP sponsored short Term Training on “Wavelets and its Application” organized by MAE Alandi College of Engineering Aug 2007.
21. Short Term Training on “Recent Trends in Information Technology” organized by BLDE’s College of Engineering Bijapur Oct 2007.
22. Invited talk on “Complex Wavelets and its Applications” in national level conference organized by D. Y. Patil College of Engineering Pune, Sept 2007.
23. TEQIP Short Term Training Programme on , “Recent Trends in Signal and Image Processing” Organised by SGGSI & T, Nanded during 16th – 18th Jan 2006.
24. 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
25. National Workshop on, “Frontier Research Issues in Pattern Recognition and Image Processing,” organized by New Horizon College of Engg. Bangalore, 23-24th March 2006.
26. 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.
27. ISTE Short Term Training Programme on, “Advances in Signal Processing,” organized by College of Engineering Ambajogai, 3rd -15th July 2006.
28. Short Term Training programme on, “Image Processing” Organised by Academic Staff College, Dr. B. A. Marthwada University, Aurangabad during 05th –24th Dec 2005.
29. 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.
30. 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
31. 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.

19. 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 proposal submitted under various schemes.
- AICTE Expert Committee Member for approval of New Engineering Institutes.

20. Short Term Courses Conducted and Coordinated

- a. 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 16-18th Jan 2006
- b. 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.
- c. 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.
- d. 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.
- e. One day Workshop on Effective Research Methodology, at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, on 23rd January 2010.
- f. One day Workshop on Effective Research Methodology, at Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded, on 20th March 2010.
- g. 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.

21. Research Projects Submitted/ Completed

- a. Coordinator of "Center of Excellence in Signal and Image Processing" Received **Rs. 5 corers** from NPIU India through SPFU in 2013.
- b. Completed AICTE sponsored project, “Content Based Medical Image Retrieval” under Carrier Award for Young Teacher, Dec 2005-Dec 2008. (total Financial Support from AICTE is 10.5 Lakh)
- c. 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.

22. Extracurricular Institute Service

- a. Faculty Coordinator of National Level Student's Technical Event "PRAGYAA 2009" held in March 2009.
- b. Faculty Coordinator of State Level Student's Technical Event "GenIT2K8" held in March 2008.

23. Community Involvement/ Outreach

- a. Delivered an invited talk on, “Carrier 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 Carrier Fair organized by Gramin Polytechnic Nanded, March 2009.

24. Administrative Responsibilities Held

- a. Coordinator, "Center of Excellence in Signal and Image Processing" Sept 2013 to till date.
- b. Professor In-charge of "Innovation Laboratory" of institute from Sept 2012 to Feb 2014.
- c. Worked as Controller of Examinations from 2nd June 2008 to 6th June 2011 (Three Years).
- d. Worked as Hostel Warden from July 1999 to July 2001 (Two years).
- e. Worked as Joint Chief Superintendent for conducting Nov/ Dec 2000 SRTMU university examination at MGM's College of Engineering Center.
- f. Worked as First Year Admission Committee member for Marthwada zone from 1996 to 2001 (Six Years).

25. References:

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