



Dept. of Electronics and
Telecommunication
S.G.G.S. Institute of Engg.
& Technology,
Vishnupuri, Nanded- 431
606

Phone +91 2462-269209
Res: + 91 2462-252050
Mob: +91 9850978050
Fax +91 2462 269236
E-mail:sntalbar@yahoo.com,
sntalbar@sggs.ac.in

Dr. Sanjay N. Talbar

1. Designation: Professor, Department of Electronics & Telecomm. Engineering,
SGGS Institute of Engineering & Technology, Nanded, 431606

2. Degrees Obtained:

Institute/ University	Degree	Year	Field of Specialization
SGGS College of Engineering and Technology, Nanded	B. E. (Electronics)	1985	Electronics
SGGS College of Engineering and Technology, Nanded	M. E. (Electronics)	1991	Electronics
SGGS College of Engineering and Technology, Nanded	Ph. D.(Electronics & Computer Science)	2000	Image Processing

3. M. Tech. Thesis Title: Intel 8031 microcontroller based system design.

4. Ph. D. Thesis Title: Texture Classification and Segmentation: A Multiresolution Approach

5. Employment Record:

University/College	Designation	Period	
		From	To
SGGS College of Engineering and Technology, Vishnupuri, Nanded	Professor	31/05/2004	Till date
Dr. Babasaheb Ambedkar Technological University, Lonere-Raigad	Professor & Head (E&TC)	31/07/2002	30/05/2004
SGGS College of Engineering and Technology, Vishnupuri, Nanded	Professor	16/07/2001	30/07/2002
SGGS College of Engineering and Technology, Vishnupuri, Nanded	Assistant Professor	16/07/1993	15/07/2001

SGGS College of Engineering and Technology, Vishnupuri, Nanded	Lecturer	06/07/1987	15/07/1993
RSS's College of Engineering, Satara	Lecturer	05/11/1986	30/06/1987
KES's College of Engineering, Sakharale, Sangli	Lecturer	06/08/1985	06/11/1986

6. Membership of Scientific and Professional Societies:

- Member, IEEE, USA
- Member, Institute of Engineering and Technology (IET), UK
- Life Member, Indian Society for Technical Education (ISTE), New Delhi
- Fellow, Institute of Electronics & Telecommunication Engineering (IETE), New Delhi
- Member, International Association of Engineers (IAENG), Hong Kong
- Member, Association of Medical Physicists of India.

7. Honors and Awards:

- **Young Scientist Award** for paper titled "Bandwidth Enhancement using Loading Technique and comparison between square Micro strip Antenna" By URSI, Belgium, 2003 with Mr. S. V. Khobragade.
- **Best Paper Award** for paper titled "Automatic Lung Field Segmentation using NMF and Unsupervised learning", in International Conference IESC2017, organized by NITM, Shillong, 6-7th April 2017
- **Best Paper Award** for paper titled "A Robust Digital Watermarking Using DWT and DCT", in proceedings of IET National Conference on Signal and Image Processing Applications, organized by COE, Pune, 19-20, Sept, 2009 with Mr. C. A. Bhavsar
- **Best Paper Award** for paper titled "Image coding using Dual Tree Discrete Wavelet Transform and Iterative Projection Based Noise Shaping" National Conference, Techfest, YTIET, Karjat, Mumbai, March 2010 with Ms. S. E. Nandedkar.
- **Biography** is included in **Marquis Who's Who** Publication, NJ, USA 2012

8. Subjects Taught

a. At undergraduate level:

- Embedded Systems
- MicroController & Applications
- Microprocessor and Interfacing
- Advanced Microprocessor
- Computer Organization
- Computer Network
- Electronics Design Technology
- DSP/ DIP

b. At postgraduate level:

- Digital Image Processing
- Embedded System Design
- Neural Network
- Advanced Computer Architecture

9. **No. of M. Tech. students guided:** 70 students (List is attached in Appendix A)

10. **No. of Ph.D. students guided:** (List is attached in Appendix B)

- Number of students completed Ph.D.: **15**
- Number of students in progress.: **08**

11. List of Conferences participated:

SN.	Name of the Conference	Organizer/Location	Dates
1	IEEE (TENCON-91) (paper presentation)	New Delhi	1991
2	ICVGIP(paper presentation)	IIT, Delhi	Dec' 1998
3	NCC-99(paper presentation)	IIT Kharagpur	1999
4	NCCCIS(paper presentation)	Govt. Engg. College, Goa	23-24 Jan 04
5	National Conf.on Emerging Trends in Mechatronics (Keynote address)	MIT, Aurangabad	23 Jul 2004
6	NCIP(paper presentation)	Thadomal COE, Mumbai	11-12 Jan 05
7	Workshop on CVGIP (paper presentation)	IIIT, Hyderabad	Jan 2006
8	International Workshop on Deve. Environments and Processes (paper presentation)	SGGS IE & T, Nanded	11 Feb 2006
9	National Seminar on Parallel Computing (paper presentation)	IIIT Pune	2007
10	National Conference on Inform. Tech in Multidomain Industries (Keynote address)	Singhad Institute of Technology, Lonawala	Apr 2007
11	ICACCT (Session Chair)	APIIT, Panipat, Hariyana	3-4 Nov 2007
12	National Conference on AI (Session Chair)	VP's COE Baramati	1 June 2007
13	TI Developer Conference (participant)	Bangalore	29-30 Nov 2007
	National Conference on Speech, Image and Video Processing (Session Chair)	SSGM COE, Shegaon	Feb 2008
14	ICACCT (Session Chair)	APIIT, Panipat, Hariyana	3-Nov 2008
15	IETE National Conference on Electronics, Comm.&Computers (Keynote address)	IETE Navi Mumbai	13-14 Feb 2009
16	National Conference on IT and Bioinformatics (Keynote address)	Swami Vivekandan Mahavidyalaya, Udgir	27 Feb 2009
17	National Conf. on Emerging trends in comps, Comm. and IT (Keynote address)	KJSCOE Mumbai	20-21 Mar 2009
18	IET National Conference on Signal, Image Proc.& App.(Keynote address)	COE Pune	19-20 Sept. 2009
19	Int. Conf. On Emerging Trends in CS and IT(Session Chair)	Yeshwant College Nanded	9-10 Jan 2010
20	International Conf. on Comp Inte. Appl. (Session Chair)	Sandip Foundation, Nashik	11-12 Feb 2012

21	National Symposium on Engineering and Research (Keynote address)	Matoshri COE Nashik	14 Apr 2012
22	National Conference on "Recent trends in VLSI, Embedded Systems, Signals Proc& Comm."(Keynote address)	VVP CoE, Solapur	5- 6 th Jan. 2013
23	National Conference on Recent Initiatives towards Green Electronics, NCRIGE -2013 (Keynote address)	BrijlalBiyani College, Amrawati	8-9Feb 2013
24	Int. Conf. on Industrial App. of Signal Processing	DACOE, Karad	26 Nov 2013
25	Int. Conf. On Emerging Trends in CS and IT(Session Chair)	Yeshwant College, Nanded	9 Feb 2014
26	International conference on Pervasive Computing (Session Chair)	SCOE, Pune	9 Jan 2015
27	ICISP (Session Chair)	COEP, Pune	29 May 2015
28	ICONSIP 2017 (Chairman, Organizing Committee, Session Chair)	SGGSIET Nanded	6-7 Oct 2016
29	IESC 2017 (paper presentation)	NITM, Shillong	6-7 th April 2017

12. Research Publications:(List is attached in Appendix C)

- a). **No. of Book Chapters: Books: 08; Book Chapters: 08**
- b). **No. of Papers Published in Refereed Journals: 50**
- c). **No. of Papers Published in Conferences: 110**
 - i. **International Conference: 79**
 - ii. **National Conference: 45**

(I) **Research Projects:**

- **Principal Investigator, RGSTC, Govt. of Maharashtra, Mumbai 2017 (14.1Laks)**
- **Nodal Officer, Vishvesvaraya PhD Scheme, DeitY, GOI, 2014 (Rs.86 Lakhs)**
- **Co-Principal Investigator for Centre of Excellence in "Signal and Image Processing" under TEQIP_II (2013)**
- **Convener, National Conference on Communication, Computation and networking Technologies, 13-14 March 2013.**
- **Designed and implemented research project "Gesture Recognition using Hidden Markov Model" at Ocean Networks India Ltd., Pune [2001].**
- **Worked as Principal Investigator for R&D project "Texture Analysis using Multi-resolution Approach" funded by AICTE, New Delhi. Digital Image Processing Laboratory is developed under this project with CCD camera, frame grabber and 10 Pentium computers [Rs.8.6Lakhs 2000-2002].**

- For **Doctoral research**, we investigated issues related to identification of appropriate features and classifiers for Texture images. Carried out comparative study of Multi-channel Multi-resolution methods including *Gabor filter, Laplacian Pyramid and Wavelet Transform* for Texture Analysis. The study also includes development of ANN based classifier for Supervised and Unsupervised texture segmentation [1996-1999].
- Designed and developed “8031 Micro-controller based System” as a marketable product [PG Dissertation work, 1990]

(II) MOU for Research:

- **Universiti Teknologi PETRONAS, Malaysia**
- **Tata Memorial Hospital, Mumbai**
- **Jankharia Imaging Lab, Mumbai**
- **Life Line Diagnostic Centre, Nanded**

13. Foreign Visits:

- Collaborative research Programme with Prof. Jonathan Chambers, at DSP Centre, Cardiff University, Cardiff, UK from 7thMay- 3rd June, 2005
- MoU with Universiti Teknologi Petronos, Epoh, Malasia for joint research programme August 2013.
- Attended to short term courses at UTP Malaysia “Statistical Inference Theory” 24-25/8/2013 and Advanced Medical Imaging on 29/08/2013
- Visited National Technological University, Singapore 30/08/2013
- Visited UTP from 2nd -8th August 2016 for CISIR_SGGS Institute of Technology Workshop.

14. Industry Visit and Internship

- Arranged Internship to for MTech (EXTC and CSE) students at Compton and Greaves R&D Lab, Mumbai, TCS, Pune & Mumbai, Synopses Banglore, SPJ Systems, Pune, CEERI Pilani, ECIL Hyderabad, Wavelet Group, Pune CDAC, Pune
- Every year at least One Sponsored project for UG students from SPJ Systems Pune
- Upgraded “Embedded VLSI Lab” with donations from Texas Instrument (MSP430 kits) and ACTEL, USA thr’ Reanu Micro Electronics, Pune
- Conducted Workshops for UG as well as PG students in the area of Embedded Systems

15. Research Consultancy/ Training Offered

SN.	Year	Brief Description of Activity	Revenue Generated
1	2011	AICTE Sponsored STTP on “Recent Advances in Speech, Image and Video Processing” at SGGSIET, Nanded, on 12-23thDecember 2011.	AICTE Sponsored (Rs.5.85 Lakhs)

2	2010	Developed “Embedded VLSI Lab” with donations from Texas Instrument and ACTEL, USA thr’ Reanu Micro Electronics, Pune [Rs.1 Lakh 2010]	Rs. 1 Lakh
	2010	Upgraded Embedded Lab with donations from Texas Instrument (MSP430 kits)	Rs.0. 50 Lakhs
3	2004	Developed Communication Laboratory under MODROB Scheme [Rs. 5.5Lakhs 2004]	Rs. 5.5 Lakhs
4	2004	ISTE-AICTE STTP on “Computer Vision” from March, 1- 12 2004 (DBATU, Lonere)	ISTE Sponsored (2.2Lakhs)
5	2003	ISTE-AICTE STTP on “Embedded System Design” December 1-13, 2003(DBATU, Lonere)	ISTE sponsored (2.2Lakhs)
6	2003	ISTE-AICTE STTP on “Modern Computer Networking”, Nov. 3-14, 2003(DBATU, Lonere)	ISTE Sponsored (2.2Lakhs)
7	2000	ISTE-AICTE STTP on “Digital Signal and Image pro.” with Dr. Y.V. Joshi from June 5-17, 2000.	ISTE Sponsored (2.2Lakhs)
8	2001	Intensive course on JAVA Programming for staff and students of SGGGS College of Engineering and Technology, Nanded, Jan-March 2001	Rs. 1,50,000/-
9	1999-2001	Established new Digital Image Processing Lab in Electronics Department through DCA projects [R&D Rs. 8.6 Lakhs 1999-2001]	Rs. 8.6 Lakhs
10	1998	Established Computer Lab, in the department through DCA project [MODROB, Rs. 17.0 Lakhs]	Rs. 17.0 Lakhs

16. Short Term Course Conducted and Coordinated

- TEQIP_II sponsored STTP on “Computer Vision and Pattern Recognition” during 13-23 July 2016.
- AICTE Sponsored STTP on “Recent Advances in Speech, Image and Video Processing” at SGGSIET, Nanded, on 12-23rd December 2011.
- Coordinated Short Term Intensive course on “FPGA and DSP Design Flow” with expert from CG Corel, Bangalore [Feb2008]
- Coordinated ISTE STTP on “Research Methodologies in Image Processing” at KBPCOE, Satara, December 1-12, 2008.
- ISTE-AICTE STTP on “Computer Vision” from March, 1- 12 2004.
- ISTE-AICTE STTP on “Embedded System Design” December 1-13, 2003.
- ISTE-AICTE STTP on “Modern Computer Networking”, Nov. 3-14, 2003.
- Intensive course on JAVA Programming for staff and students of SGGGS College of Engineering and Technology, Nanded, Jan-March 2001.

- ISTE-AICTE STTP on “Digital Signal and Image processing” with Dr. Y.V. Joshi from June 5-17, 2000.
- Ten days short-term course on Computers for Commerce Teachers of SRT Marathwada University, Nanded, with Dr. Y.V. Joshi, December 1998.
- STTP on “Computer Programming and Applications”, Dec. 1990.

17. Professional and Other Activity:

- ➔ Working as reviewer for following international journals:
- IEEE Transaction on Systems, Machines and Cybernetics
 - Journal of Information Processing, South Korea
 - International Journal of Computer Science & Communication Technology
 - International Journal of Computer Applications, USA
 - The Computer Journal, Oxford University Press
 - Journal of Advanced Studies in Topology

18. List of Short Term Courses Participated:

SN.	Name of the Program	Organized by	Duration	Dates
1	Advance Imaging Techniques for Biomedical Applications	University Teknologi PETRONOS, Malaysia	1-day	29/08/2013
2	Statistical Inference Theory and Practice	University Teknologi PETRONOS, Malaysia	2 days	24-25/8/2013
3	Wavelets	IIT Mumbai (DBATU Lonere)	1 week	31/07/2013 -4/08/2013
4	Workshop on Biodesign	SIB,AIIMS Delhi and SGGSIET Nanded	2 days	8/8/2013-9/8/2013
5	TI Microcontrollers	Texas Instrument, Banglore	1 week	07-11 Feb 2011
6	Wireless Standardization	GISFI Workshop	3-days	26-28 Feb 2010
7	Virtual DSP Lab	IIT Powai, Mumbai	2-days	13-14 Dec2010
8	Signals, Systems and Signal Processing	IUCEE, Infosys, Mysore	1 week	06-10 July 2009
9	Fundamentals of FPGA & DSP Design Flow	CG Corel Programming Solutions Pvt. Ltd. Banglore	1 week	18 -21 Feb 2008
10	Building World Class Institutes	Sinhgad College of Engineering, Loawala	1 week	21-24 Nov 07
11	Embedded Linux on ARM	SPJ Embedded Tech. At I2IT, Pune	3-days	18-20 Oct07

12	Embedded System and Technology	IIT Kharagpur	1 week	19-24 June06
13	DSP Tools and Practices	IIT Kharagpur	1 week	12-17 June06
14	Management Capacity and Vision Development	PWIM, Mumbai	3-days	Jan'06
15	VLSI Signal Processing	IIT Kharagpur	1 week	23-29 Dec'06
16	Institute Capacity Development for Future	ASCI, Hyderabad & SGGSIET, Nanded		Dec' 2005
17	Signal and Image Processing	IISc, Bangalore	2 weeks	Feb'98
18	Intensive Course on TELEMATICS	IIT, New Delhi	(2 weeks)	Dec'97
19	Recent advances in DSP	Malnad College of Engg. Hassan	2 weeks	June'94
20	Parallel Processing	IIT, Kharagpur	1 Week	June '94
21	Advanced Computing	C-DAC, Pune	1 Week	June '93
22	Electronic Measurement Tech. & Equipment Maint.	IIT, New Delhi	2 weeks	July '90
23	UNIX and C Programming	Govt. College of Tech., Coimbatore	2 weeks	Jun' 88
24	16-bit Microprocessors	KREC, Suratkal	2 weeks	Dec' 88
25	Induction Training Course for technical Teachers	TTI, Bhopal	4 weeks	Nov-Dec'85

19. Lectures Delivered at National level:

Delivered expert lectures in the following short-term courses and National level workshop/Seminars.

- Expert Lecture at ISTE-STTP at DKITCOE, Ichalkarnji Jan 4, 2014
- Expert Lecture at SEVRI COE Pandharpur, 2013
- Expert Lecture at SCOE, Pandharpur, 2013
- Expert Lecture at Shivaji University Kolhapur, 25/11/2013
- Expert Lecture at BTE-STTP at Gramin Polytechnic, Nanded 2013
- Expert Lecture at TEQIP-SDP on wavelet at VJTI, 21-23/12/2013
- STTP on “Advances in Signal and Image Pro.,” GCOE, Jalgaon, 27 Nov. 2012
- Expert Lecture at MGMCOE, Nanded 2012
- Conducted Workshop on “Image Processing and Computer Vision” at JJMCOE, Jaisingpur, 3-4 August, 2012
- Expert Lecture at MCOE, Jalana, 17/9/2010

- ISTE STTP FDP on “Applications of Image Thinning Methodology” at BVRIT, Narsapur, Medak, AP, 23rd June, 2009
- BTE sponsored SDP “Embedded System”, KKW Polytechnic, 14, Sept 2009
- Workshop on “MATLAB Tools” coordinated by AISSMs’ IIT, Pune 18th Sept. 2009
- Workshop on “MATLAB Tools” coordinated by AISSMs’ IIT, Pune 18/9/2009
- ISTE STTP FDP on “Applications of Image Thinning Methodology” at BVRIT, Narsapur, Medak, AP, 23rd June, 2009
- Workshop on Image Processing at PVPPCOE, Sion Mumbai, 2009
- ISTE STTP on Image Processing at JDIT, Yeotmal, 29 & 30/9/2008.
- ISTE STTP “Advances in Signal Processing and Soft Computing”, May 18-22, 2009
- IEEE National Workshop on “Wavelets and Applications”, at SGGSIETN, May 2009
- ISTE STTP on “Image Processing and Applications, DBIT, Mumbai, Jan 2008
- Expert Lecture at MGMCOE, Nanded for final year Electronics students on “Embedded Real Time Image Processing” 13/10/2007
- ISTE STTP on “Image Transforms and applications” conducted by Don Bosco Institute of Technology, Mumbai 2nd January 2008
- ISTE STTP on “Wavelet Transforms and applications” conducted by KJ Somya Institute of Information Technology, Sion, Mumbai on 10th January 2008
- Workshop on DSP organized by SVK College of Engineering, Chincholi, Nasik, Topic: “Pattern Recognition” on 12 January 2008
- Science College Nanded for Faculty and MSc(extc) students, Topic: “Fundamentals of Image Processing” and “Embedded Systems” on 25 February 2008 [Dr. Ram Manohar Lecture Series]
- Ramdeobaba Kamala Nehru College of Engineering, Nagpur, Topic: “Applications of Image Processing: OCR, Satellite Image Proc, Digital Watermarking” on 10 March 2008
- Invitation for “Project Evaluation: Concept2008” @PICT, Pune on 14 March 2008
- Expert Lecture on Image Processing at WCE, Sangli, 2008
- Expert Lecture STTP at DBIT, Mumbai 10/1/2008
- Invitation for National Level Project Competition @SSGMCOE, Shegaon, 29 & 30/9/2007
- Two days FDP on “Signal/Image Processing” at RIT, Sakhrle, Sangli, 19-2007
- ISTE on “Digital Image Processing” conducted by BNCOE, Pusad on April 2007
- STTP on “Wavelet Transform and its Applications” at Basweswar College of Engineering, Bagalkot, Karnataka October 2006.
- ISTE-STTP on “Advances in Signal Processing”, COE, Ambajogai [July2006]

- STTP on “Recent Trends in Digital Signal & Image Processing” at SGGSC&T, Nanded, May 2006.
- QIP STTP, “Image Processing and Multimedia Systems” organized by VJTI Mumbai during 7th June to 2nd July 2004 at Mumbai (Maharashtra), India.
- Expert Lecture at PRCOE, Loni, Pravara Nagar, 2004
- Expert Lecture at ISTE-STTP VIT, Pune, 2004
- Expert Lecture at ISTE-STTP at DBATU, Lonere, Raighad 2003 & 2004
- Expert Lecture at PVPCOE, Ahmednagar, 2003
- Expert Lecture at UGC FDP at SRTMU, Nanded 2001
- Expert Lecture at STTP- SCOE, Pune
- Expert Lecture at SIESCOE, NerulNaviMumbai
- Expert Lecture at RAIT, Nerul
- Expert Lecture at ISTE-STTP at JDIT, Yawatmal
- Expert Lecture at WIT, Solapur
- TEQIP STTP at BCOE, Bagalkot Karnataka
- Expert Lecture at STTP at KITS, Huzurabad, Warangal, AP
- Expert Lecture at ISTE STTP at COE, Ambajogai
- Expert Lecture in UGC-FDP at Dept. of CSE&IT, DBAMU, Aurngabad
- Expert Lecture at MGMCOE, Nanded,
- ISTE STTP at Saraswati COE, Kharghar, Mumbai

20. Contribution towards Academic activities:

University Recognition and Related Work

- Member BOS, SGGSIET, Nanded
- Member, BOS, RIT, Sakharale (2010-2015)
- Member 32.5-SRTMU Nanded (2011-2015)
- Member of RRC North Maharashtra University, Jalgaon (2012-2015)
- Member of RRC of SNTD University, Mumbai (2012-)
- Member of RRC of SRTMU Nanded (2012-2015)
- Member, BOS, Solapur University, Solapur (2010-2013)
- Member, BOS (Electronics and Tele.) for Dr. BAMU, Aurangabad (2006-2010).
- Member of RRC of Mumbai University(Oct 2006-August 2010)
- Member, BOS (Electronics and Telecom.) for Pune University (2001-2006).
- Member, BOS (Electronics Engg) Shivaji University, Kolhapur (2000-2005)
- Member, RRC (Instrumentation) of Pune University, Pune (2001-2006).
- Member, Board of Studies (Electronics & Telecomm) and (Information Technology) of SRT Marathwada University, Nanded (1995-2002)
- Chairman, BOS, BATU Lonere (2002-2004)
- Member New College affiliation Committee appointed by Vice-Chancellor, SRTMUN.
- Research Guide of Electronics / Computer Science Engineering, SRTMU, Nanded
- PG Teacher, in the Subject of Electronics Engineering, DBAMU, A’bad (1994 onwards).

- PG Teacher, in the subject of Electronics Engineering, SRT Marathwada University, Nanded (1996 onwards)
- Member of Executive Council of DBATU, Lonere, Raigad (2002-2004)
- Member of Academic Council of DBATU, Lonere, Raigad (2002-2004)

Dr. S.N.Talbar

Appendix A **List of M.Tech. Students Guided**

SN	Name of the student	Title of thesis	Year of Completion
76	Akshay Ashok Dudhane (2015MEC004)	A Novel Feature Descriptor for Lung Segmentation & Classification	July 2017
75	Sneha Ramesh Mote (2015MEC031)	Neural Network Based Approach for Brain Tumor Segmentation	July 2017
74	Sharda Sawant (2015MEC0017)	Benchmarking using LiDAR of Tracker of Automotive RADAR from Real Life Traffic Data	July 2017
73	Sneha Yesankar (2015MVE018)	FPGA based Implementation of Real-Time Extreme Learning Machine Classifier for Computer Vision Applications	July 2017
72	Pratik Shah	Camera Calibration (TCS Bangalore)	July 2016
71	Veena Ojha	ASIC Clock Tree Conversion For FPGA Prototyping (Synopsys, Bangalore)	July 2016
70	Bhakti Baheti	Object detection and Tracking	July 2015
69	Ujjwal Baid	Image Registration and Homography Estimation	July 2015
68	Akash Gandhmal	Intelligent Video Surveillance	July 2014
67	Nikita Rathi	Medical Image Fusion	July 2014
66	Ganesh S. Wani	Surround View System for Vehicles (Tata Elexi Pune)	July 2013
65	Kiran Pophale	Real Time Door Access System (TCS Pune)	July 2013
64	Deviprasad Tuptewar	Content based image retrieval by using MPEG-7 Shape descriptor	July 2012
63	Surendra Sot	Car Monitoring, Alerting and Tracking Model Enhanced with Mobile Application	July 2012
62	Ankit A Bhurane	Face Recognition using DTW Transform	July 2011
61	Vikrant Karale	Video coding Technique using Swarm Intelligence in 3-D DTCxWavelet Transform	July 2011
60	JyotiPatil	Face Recognition	2011
59	Geetanjali Lokhande	Watermarking using Spread Spectrum	July 2010

58	SandeepLomte	Wireless Identification Data & Power Transfer for System	July 2009
57	Sunil Jatti	ARM Based Data Converter Interfacing for Development of DC Calibrator	July 2009
56	Girish Kapse	Advance Video Coding Standard/H.264	July 2009
55	Snjeevani Nandedekar	Image Coding using Dual Tree DWT	Dec 2009
54	AvinashIthape	Real Time H/264 MPEG 4 Video Compr. Standard using TMS3206711 DSP	July 2008
53	Ms. ShitalPatil	Analysis, Design and Hardware Implem. of Power Disturbances using FPGA	July 2008
52	ShashikantJadhav	Motion Estimation and Optical Flow For Multiple Object Detection & Tracking in Video Sequence	July 2008
51	Bhavsar C.A.	Digital Camera Design in Verilog	May 2008
50	Deepak Sarwade	Digital Answering Machine	June 2007
49	ShaileshBhalerao	An Automated Model Development System For Pressure Sensor	July 2007
48	ParagSarode	Face Recognition (BARC).	July 2006
47	NileshDhone	OCR (Robert Bosch ,B'lore)	July 2006
46	Ms. Chayya Devi	Image Compression using wavelet Form.	July 2005
45	Jambhale (NIITR Ch)	Texture Classification	2005
44	NarendraJadhav (BATU)	Simulation of DCT using VHDL	March 2004
43	AjitBarbadkar (BATU)	Data Logger System For a Vehicle	March 2004
42	Patil Sanjay A. (BATU)	Edge Detection Techniques	March 2004
41	GajananBiradar (BATU)	Texture Segmentation With Gabor filters	May 2004
40	SatishChavan (BATU)	Image Compression using EZW	May 2004
39	SnehalJadhav (BATU)	Segmentation of Oriented Texture images	May 2004
38	Vishal Kale (BATU)	RFI Location using GMRT antennas and Mobile RFI Finder (IUCCA Pune)	May 2004
37	SachinPathak (BATU)	RFI Detection and Location using AIPS (IUCCA Pune)	May 2004
36	KailashKarande (BATU)	Face Detection and Recognition	May 2004
35	Vijay Rathod (BATU)	JPEG Compressing on DSP	May 2004
34	Ms. InduMourya (BATU)	Interrupt Latency Measurement (BARC)	May 2004
33	SatishVarma (BATU)	Image Compressing using SPIHT	Dec 2003
32	ShilpaMetkar	Video Compression	Jan 2002
31	B.V.Gavali	Image Compression	July 2002
30	Chepurishankar	Rotation invariant Texture Segmentation using Wavelet Transform	Jan 2001
29	Ms.SanjeevaniJadhav	Wavelet Based Unsupervised Image Segmentation	March 2001
28	S.S.Deshpande	Spatial Domain Image Enhancement Tech.	Jan 2001
27	Anil Deshmane	ECG Analysis using Wavelet Transform	July 2001
26	M.S.Patil	Data Fusion using Wavelet Transform	April 2000
25	K.C.Jondhale	Operator Based Image Segmentation	April 1999
24	M.H.Shashtri	Sub band Coding of Monochrome and Color Image	June 1999

23	S.S.Kanade	EEG Analysis Through Fourier and Hartley Transform	Aug 1999
22	B.P.desorkar	Multiresolution Analysis & Neural Network for Texture Segmentation	Aug 1999
21	M. Ravi Keron	Study of Windows: User for Prototype of a Flight Reservation System	
20	S.B.Kale	Unsupervised Texture Segmentation using Gabor Filters	Aug 1999
19	N.M.Shahane	Unsupervised Texture Segmentation using Multiscale	Aug 1999
18	D.S.Debedwar	Unsupervised Texture Segmentation using Multiscale Features With Fusion Tech	Aug 1999
17	B.Ratnakant	Unsupervised Texture Segmentation based on edge detection	Sept 1999
16	M.B.Kokare	Texture Classification using wavelet transform	April 1999
15	V.Rajesh	Texture classification using Wavelet transform	March 1998
14	S.C. Deshpande	Image Compression & Classification using Laplace in Pyramid	March 1998
13	K.Gopliaih	Morphological Filters For Texture analysis	March 1998
12	N.Chandra Mohan	Texture Classification using Gabor Filters	March 1998
11	S.P.Pawnarkar	Optical Character Recognition based on profile & Moment algorithm	May 1998
10	M.H.Kolekar	Texture Classification using Fractal Dimension.	Oct 1998
9	A.K.Khachane	Image Compression Wavelet Transform	Oct 1997
8	A.V. Chaudhari	Study of fractal Generation & its application to texture.	Feb 1997
7	R. S. Sonkamble	Texture Analysis.	Feb 1997
6	S. Jayramhai	Offline Signature Identification.	June 1997
5	V.B.Pokale	Image Segmentation Techniques.	Feb 1997
4	R.C.Deshpande	PC based Interface for smart instruments using IEEE488.	March 1997
3	M.M.Jain	Development of Hand-Held Technical for performs compatible smart Transducer	May 1996
2	G. B. Lohiya	Development of Profiles Compatible smart Transducer	1997
1	B. Madullati	Texture Segmentation using Gabor wavelet with DRA	1998

Appendix B
List of Ph.D Students Guided/Registered

SN	Name of student	Topic	Status (Completed /Ongoing)
1	Mr. Upadhyay A.R.	Non Linear diffusion and Its Applications in Image Enhancement & Segmentation	(2004-2009) 10/06/2009
2	Mr. Pardeshi S.A.	Automatic Face Recognition System Using Multi-Channel Filtering Approach	(2004-2010) 7/05/2010
3	Mr. Saleh Abdelghani Abdo, Ibb University, Sana'a, Yemen	Satellite Image Classification and Change detection	(2006-2010) 9/8/2010
4	Mr. Karande K. J.	Biometric Face Recognition using ICA	(2007-2011) 6/5/2011
5	Ms. Metkar S. P.	Digital Video coding Algorithm for Efficient Storage transmission and Processing of Video data in Multimedia Environment	(2005-2011) 23/9/2011
6	Mr. Bodade R.M.	Irish Based recognition using ICA	(2006-2011) 23/9/2011
7	Mr. PankajLande (Co-guided)	Hardware Architectures for Watermarking Algorithms	(2006-2011) Nov 2011
8	Mr. A.K. Deshmane	Biomedical Signal Compression	(2007-2012) 13/3/2012
9	Mr. Varma S. L.	Content Based Video Analysis and Retrieval	(2008-2013) 26/03/2013
10	Mr. Pawar V.N.	Investigation of Machine Vision Algorithms for Object Recognition	(2008-2013) 25/03/2013
11	Mr. Patil S.R.	Performance Analysis of CBIR Systems	(2008-2014) 08/03/2014
12	Mr. Thakare Y. B.	Design of Fractal Micro-strip Antennas and their back scattering analysis	(2008-2015) 19/06/2015
13	Mr. Bagade A.M.	An Efficient Image Morphing System for Secure Transfer of Image data contents using Internet Media	(2009-2014) 11/07/2015
14	Ms. Rajankar S.O.	Qualitative Evaluation of Algorithmic Approaches to Biomedical Signal Comp.	(2009-2016) 13/12/2016
15	Mr. GamilRasheed Salman Quid (Yemen)	Encryption and Decryption of Image using Multi-objective Soft Computing Algorithm	2011-2016 13/01/2016
16	Mr. Satish S. Chavan	Bio Medical Image Analysis	On-going (2011-)
17	Mr. Singhadkar Ganesh	Lung Cancer Segmentation	On-going (2014-)
18	Mr. Gandhamal Akash P.	Volumetric Assessment of Articular Cartilage in Knee Osteoarthritis using MR imaging	15 September 2014

19	Mr. Sapate Suhas G.	Design and development of algorithms for automatic breast cancer detection	15 September 2014
20	Ms. Pawar Minakshi	Computer aided analysis of Mammograms for Breast Diseases	24 December 2014
21	Mr. More Umashankar R.	Design and analysis of variable resolution iterative Analog to Digital Converter	24 December 2014
22	Mr. Ujjwal Baid	Medical Image Processing	Sept 2015
23	Ms Bhakti Baheti	Camera Calibration (Co-guide)	Dec 2015

Appendix C
Research Publications

a) Published Books and Book Chapters:

Books :

1. Rajesh Bodade and S.N.Talbar “Irish Analysis of Biometrics Analysis”, **Springer Briefs in Applied Sciences and Technology-Computational Intelligence**, ISBN 978-81-322-1852-4, 2014.
2. Kailash Karande and S.N.Talbar, “Independent Component Analysis of Edge information for Face Recognition” **Springer Briefs in Applied Sciences and Technology-Computational Intelligence**, ISBN 978-81-322-1511-0, 2013.
3. Shilpa Metkar and S.N.Talbar “Motion Estimation Techniques for Video Coding”, **Springer Briefs in Applied Sciences and Technology-Computational Intelligence**, ISBN 978-81-322-1096-2, 2013
4. Kailash Karande and S.N.Talbar, “Face Recognition using Independent Component Analysis under Variation of Pose, Illumination and Facial Expressions” ISBN 978-3-659-19359-0 by **LAMBERT Academic Publishing GmbH & Co. KG Heinrich-Böcking-Str. 6-8 66121, Saarbrücken, Germany.**
5. Dr. S.N.Talbar and **Akhilesh R. Upadhyay**, “Electronics Instrumentation”, DhanpatRai Publishing Co. Pvt. Ltd., New Delhi, ISBN 81-87433-35-3, February 2001. **Revised edition, July 2005, title “Electronic Measurement & Instrumentation [Analog & Digital]”, ISBN No. 81-87433-35-3. Revised Enlarged 3rd Edition in July 2008**
6. Dr. S.N.Talbar and **Akhilesh R. Upadhyay**, “Instrumentation and Measurement” (as per RGPV, M.P., syllabus), DhanpatRai Publishing Co. Pvt. Ltd., New Delhi, July 2001, **ISBN 81-87433-69-9.**
7. Dr. S.N.Talbar and **Akhilesh R. Upadhyay**, “Electronic Instrumentation and Measurement”, Dhanpat Rai Publishing Co. Pvt. Ltd., New Delhi, July 2004. **Revised edition released in July 2006.**
8. S.N.Talbar and T.R.Sontakke, “Electronics Circuit Design”, (ISBN.81-86639-04-7), Published by Sadhu-Sudha Publications, Nanded, 1996, First Reprint-1997, Second Edition-2001, New Edition-2003.

Book Chapter:

1. Anant M.Bagade, Sanjay N. Talbar, Intelligent Morphing and Steganography Techniques for Multimedia Security”, Book Chapter, **Springer**-Intelligent Morphing and Steganography Techniques for Multimedia Security, Vol.660, pp47-64, 2016
2. Suhas Sapate, Sanjay Talbar, “An Overview of Pectoral Muscle Extraction Algorithms Applied to Digital Mammograms” Book Chapter in’ “Medical Imaging in Clinical Applications”, **Springer** International Publishing Switzerland, pp.19-54, 2016
3. S A Pardeshi, & S.N. Talbar, “Local Feature based Face Recognition”, Face Analysis, Modeling, and Recognition Systems, **InTech**, pp.53-78, 2009
4. Rajesh Bodade & S.N.Talbar , “Segmentation for Iris Localization: A Novel Approach Suitable for Fake Iris Detection” **Springer LNCS** (LNCS-5909/2009), ISSN: 0302-9743 (Print) 1611-3349 (Online).
5. S. L. Varma and S.N. Talbar, “Wavelet and Hadamard Transforms for Image Retrieval Using Color Models,” **Springer LNCS**, vol. 101, pp. 336–338, 2010.
6. S.N.Talbar and Anil K. Deshmane, “Biomedical Image Coding using Dual Tree Discrete Wavelet Transform and Iterative Projection” International Conference on Advances in Information and Communication Technologies, ICT2010, Sept. 7-9,2010, Kochi, Kerla, India. (**Springer LNCS**, 2010)
7. S.R. Patil and S.N. Talbar, “Content Based Image Retrieval using various distance metrics,” LNCS, **Springer-Verlag, Germany**, Vol. 6411, pp.154-161, 2011
8. S. L. Varma, S.N. Talbar, “Video Retrieval Using Local Binary Pattern” **Springer, Computational Intelligence in Data Mining-Vol 1**, pp 123-130, 2015
9. Meenakshi M Pawar, Sanjay N Talbar, “Wavelet Statistical Feature Selection Using Genetic Algorithm with Fuzzy Classifier for Breast Cancer Diagnosis”, Progress in Intelligent Techniques: Theory,, Practice and Applications, Springer, Singapore, pp-95-105, 2018

b) Refereed Journals:

1. Akash Gandhamal, Sanjay Talbar; Suhas Gajre; Ahmad Fadzil M Hani, Dileep Kumar,” Fully Automated Subchondral Bone Segmentation from Knee MR Images: Data from the Osteoarthritis Initiative”, accepted for publication (CBM-D-17-00372R1) **Elsevier**-Computers in Biology and Medicine, An International Journal, [Volume 88](#), 1 September 2017, Pages 110-125
2. Akash Gandhmal, Sanjay Talbar, Suhas Gajre, Ahmad Fadzil M Hani, Dileep Kumar, “Automatic and Unsupervised FEMUR and TIBIA Segmentation using Magnetic

- Resonance Images”, **Elsevier**-Osteoarthritis and Cartilage, Volume 25, Supplement 1, April 2017, Page S258
3. Archana Sable and Sanjay Talbar, “Recognition of Plastic Surgery faces and Surgery types: An Approach with Entropy based Scale Invariant Features”, Journal of King Saud University-Computer and Information Sciences, **Elsevier**, ISSN:1
 4. Archana Sable and Sanjay Talbar, “EV-SIFT- An Extended Scale Invariant Face Recognition for Plastic Surgery Face Recognition”, International Journal of Electrical and Computer Engineering, Vol.7, No.4, ISSN:2088-8708 (Scopus indexed), Pages1923-1933.
 5. Archana Sable and Sanjay Talbar, “Granual Approach for Recognizing Surgically Altered Face Images using Adaptive EV-SIFT and LM Trained NN”, International Journal of Computational Systems Engineering, **Inderscience**, 2017 (accepted)
 6. S Satishkumar S. Chavan, A. Pawar and Sanjay N. Talbar, “Multimodality Medical Image fusion using Nonsubsampled Rotated Wavelet Transform for cancer Treatment”, International Journal of Computational Systems Engineering, **Inderscience**, 2017 (accepted)
 7. Akash Gandhamal, Sanjay Talbar; Suhas Gajre; Ahmad Fadzil M Hani, Dileep Kumar,” Local Gray Level S-Curve Transformation – A Generalized Contrast Enhancement Technique for Medical Images, **Elsevier**-Computers in Biology and Medicine, An International Journal, Vol.83, pp120-133, April 1, 2017
 8. Satishkumar S. Chavan, Abhishek Mahajan, Sanjay N. Talbar, Subhash Desai, Meenakshi Thakur, Anil D'cruz “Nonsubsampled Rotated Complex Wavelet Transform (NSRCxWT) for Medical Image Fusion related to clinical aspects in Neurocysticercosis”, **Elsevier**-Computers in Biology and Medicine, Vol.81, pp.64-78, 2017
 9. Supriya Rajankar, and Sanjay Talbar “Adaptive Thresholding of Wavelet Coefficients using Generalized False Discovery Rate to Compress ECG Signal”, (*Accepted* for International Journal of Biomedical Engineering and Technology, **Inderscience**).
 10. Supriya Rajankar, and Sanjay Talbar “Adaptive Vector K-Tree partitioning Algorithm: A coder for ECG Compression”, (*Accepted* for International Journal of Telemedicine and Clinical practices, **Inderscience**).
 11. Supriya Rajankar and Sanjay Talbar “A quality-on-demand electrocardiogram signal compression using modified set partitioning in hierarchical tree”, Signal, Image and Video Processing, (**Springer-SIViP**), Vol.10(8), pp.1559-1566, Nov2016.
 12. Supriya Rajankar, Raj Bhanushali and Sanjay Talbar “A Wavelet-based Progressive ECG Compression using Modified SPIHT”, International Journal of Biomedical Engineering and Technology, **Inderscience**, Vol.22(3), pp.216-232, 2016.

13. Satish Chavan and S.N.Talbar . "Multimodality Medical Image Fusion using M-Band Wavelet and Daubechies Complex Wavelet Transform for Radiation Therapy," International Journal of Rough Sets and Data Analysis (IJRSDA), 1-23, 2015
14. Sanjay Patil and S.N.Talbar , "*Fusing Magnitude and Phase of Wavelet moment for Content based Image Retrieval*", International Journal of Computational Vision and Robotics(IJCVR) (**Inderscience UK**) 2014, vol.5, No.1, pp.37-54, 2015
15. Anant M.Bagade, S. N. Talbar," A high quality steganographic method using morphing", Journal of Information Processing System (**KIPS Korea**), Vol.10, No.2, pp.256-270, June 2014
16. Anant Bagade, S. N. Talbar,"Secure transmission of morphed stego keys over Internet using IP steganography", International Journal of information and computer security (**Inderscience UK**), vol.6, issue 2, pp.133-142, October 2014
17. Archana Sable, S. N. Talbar, "A Novel Illumination invariant Face recognition method based on PCA and WPD using YCbCr color space", **Elsevier** Journal Procedia Computer Science, Vol .92, pp-181-187, 2016
18. Meenakshi Pawar and Sanjay Talbar, "Genetic Fuzzy System based Wavelet co-occurrence feature selection in mammogram Classification for Breast Cancer Diagnosis", **Elsevier** Perspective in computer science, Vol.8, Pages 247–250, September 2016.
19. Qaid Gamil RS, S.N.Talbar , and Ali Abdo M. AL–Kubati. "Image Security by Using Fuzzy Graph." International Journal of Engineering and Innovative Technology (IJEIT) Volume 3, Issue 12, June 2014
20. V. N. Pawar and S. N. Talbar, "Machine Learning Approach for Object Recognition," International Journal of Modeling and Optimization vol. 2, no. 5, pp. 622-628, ISSN:2010-3697DOI: 10.7763/IJMO.2012.V2.196, 2012
21. S.R. Patil and S.N.Talbar, "Multiresolution analysis using Complex Wavelet and Curvelet Features for CBIR," International Journal of Computer Applications (Vol 47 No17) ISSN 1973-93-86869 pp. 6-10 June 2012
22. V N Pawar and S N Talbar, "Object Recognition Technique based on Level Set Method and Neural Network". International Journal of Computer Applications 40(2), pp.8-12, February 2012
23. Satishkumar L Varma and S. N. Talbar, "Dynamic Threshold in Clip Analysis and Retrieval," International Journal of Image Proc., vol. 5, no. 4, pp. 417–424, Oct. 2011.
24. Y.B. Thakare, P.S. Wankhede, Raj Kumar, P.N.Vasamberkar and S.N.Talbar, "Design of iterative Circular shaped Fractal Antenna and its Backscattering Investigation," International Journal of Microwave and Optical Tech., Vol.6 No.1, pp.29-34, Jan 2011

25. Rajesh M. Bodade and S.N.Talbar, "Ear Recognition using Dual Tree Complex Wavelet Transform," *International Journal of Advanced Computer Science and Applications (Special issue on Image Processing) (IJACSA) Vol.2*, pp. 163-173, New York, USA, 2011.
26. S. N. Talbar, S. L. Varma, "SUCCESeR: Simple and Useful Multicolor concepts for Effective Searches and", *International Journal of Advanced Computer Science and Applications (IJACSA)*, pp.98-104, New York, USA, 2011
27. Ankit A. Bhurane, S.N.Talbar, Preeti N. Gophane, "Comparative Analysis of Conventional, Real and Complex Wavelet Transforms for Face Recognition", *International Journal of Computer Applications (0975 – 8887) Vol.39, No.6*, pp.6-12, February 2012
28. R. M. Bodade, S. N. Talbar, "Fake Iris Detection: A holistic Approach", *International Journal of Computer Applications (IJCA)*, vol.4,No.17, pp.685-690, New York, USA, 2011
29. K. J. Karande, S. N. Talbar, D.K. Singh "Survey on Noise Reduction Technique Using ICA Method" *Journal of Advances in Engineering Science, Special issue*, PP 7-10, 2011
30. A.K. Deshmane, S.N. Talbar, "Medical Video Compression by Adaptive Particle Compression", *International Journal of Latest Trends in Computing*, Vol. 1, No. 1, pp.152-156, Dec. 2010
31. PankajLande, S.N.Talbar , G.M. Shinde, "Robot Image Water Marking using Fuzzy logic: An FPGA Approach", *International Journal of Signal, Image and Pattern Recognition*, vol.3, No.3, pp.97-107, Sept. 2010
32. Pardeshi S.A. and Talbar S N., "Face Description with Local Invariant Features: Application to Face Recognition", *International Journal of Computer Applications* 1(24), pp.75–84, USA (Doi: 10.5120/555-726), February 2010
33. Rajesh M. Bodade and S.N.Talbar, "Novel approach of accurate Iris Localization from High Resolution Eye Images suitable for Fake Iris Detection," *International Journal of Information Technology and Knowledge Management*, Vol.3, No.2 pp.685-690, (ISSN: 0973-4414) July-Dec 2010
34. PankajLande, S.N.Talbar , G.M. Shinde, "Fuzzy Logic Based Approach for to Encrypted Watermarking for Still Images in Wavelet Domain", *International Journal of Signal, Image and Pattern Recognition*, vol.3, No.2,pp.1-8, June 2010.
35. Metkar S. P. and S. N. Talbar, "Motion Detection and Projection Based BlockMotion Estimation Using the Radon Transform for Video Coding" *Journal of Computer Science* 6(9):979-986, (ISSN 1549-3636), 2010
36. Anant M. Bagade and S.N.Talbar, "Image Morphing Concept for Secure Transmission of Image Data Contents over Internet", *Journal of Computer Science*, 6(9) pp.979-984, (ISSN-1549-3636), 2010.
37. PankajLande, S.N.Talbar , G.M. Shinde, "FPGA Prototype of Secured Watermarking Encoder for JPEG 2000", *International Journal Circuits, Systems and Signal Processing*, Issue-3, Vol.4, pp.97-101, 2010

38. PankajLande, S.N.Talbar , G.M. Shinde, "FPGA Prototype of Robust Image Watermarking For JPEG 2000 with Dual Detection ", International Journal of Computer Science & Security (IJCSS) Volume(4):Issue(2), pp.226-236, 2010
39. R.M. Bodade, S.N. Talbar, "Dynamic Iris Localization: A Novel Approach suitable for Fake Iris Detection" International Journal of Computer Information Systems and Industrial Management Applications (IJCISIM), ISSN: 2150-7988 Vol.2, pp.163-173, 2010
40. PankajLande, S.N.Talbar , G.M. Shinde, "FPGA Prototype of Robust Image Watermarking For JPEG 2000 with Dual Detection ", International Journal of Computer Science & Security (IJCSS) Volume(4):Issue(2), pp.226-236, 2010
41. A.K. Deshmane, S.N. Talbar, "ECG Signal Compression Using Dynamic Thresholding", International Journal of Computer Science and Information Technology (IJCSIT), Vol.3, pp.185-188, Jan-June 2010
42. V.N. Pawar , S. N. Talbar , "A Hybrid Machine Learning Approach for Object Recognition: Fusion of Features and Decisions" Machine Graphics & Vision, Vol. 19, No. 4, pp. 411-428, 2010
43. Pankaj U Lande, S. N. Talbar, GN Shinde , "A Fuzzy logic approach to encrypted Watermarking for still Images in Wavelet domain on FPGA, " International Journal of Signal Processing, Image Processing and Pattern Recognition, vol 3, issue 2, pp 1-9, 2010
44. K. J. Karande, S.N.Talbar, "Independent Component Analysis of Edge Information for Face Recognition" International Journal of Image Processing (IJIP), Special issue on Biometrics, (www.cscjournals.com) Volume (3) , Issue (3), pp. 120-131, Sept-Dec 2009
45. Pankaj Lande, S.N.Talbar , G.M. Shinde, "FPGA Implementation of Image Adaptive Watermarking Using Human Visual Model", ICGST-PDCS Journal, Vol.9, Issue 1, pp.17-21, October 2008
46. V. N. Pawar, S. N. Talbar, "An Investigation of Significant Object Recognition Techniques", IJCSNS International Journal of Computer Science and Network Security, VOL.9 No.5, pp.17-29, May 2009
47. Ms. Metkar S.P and S. N. Talbar, "Fast Motion Estimation using Modified Orthogonal Search Algorithm for Video Compression, Journal of Signal and Video Processing, (**Springer SIViP**), Vol.4, No.1, pp123-128, December, 2008.
48. K.J. Karande and S.N.Talbar,"Face Recognition under Variation of Pose and Illumination Using ICA", ICGST International Journal on Graphics, Vision and Image Processing (GVIP), ISSN: 1687-398x, vol(8), Issue(IV), pp.1-6, Dec.2008
49. S.A. Pardeshi and S.N. Talbar,"Automatic Face Recognition Using Local Invariant Features – A Scale Space Approach, Journal of Wavelet Theory and Applications," ISSN 0973-6336 Volume 2 Number 1, pp. 31–39, 2008

50. Maithili Paranjape and S.N.Talbar , “Segmentation Algorithms for Underwater Images- A Review”, International Journal of Computing Sciences and Communication Technologies(IJCSCT), ISSN:0974-3375, Vol.1, No.1, pp. 61-66, July 2008
51. Akhilesh Upadhyay, R. K. Choudhary and S. N. Talbar, “Medical Image Denoising with Ramp Preserving Advanced Nonlinear Diffusion Approach”, International Journal of Imaging (IJI), ISSN:0974-0627, pp.62-72, July 2008.
52. M. H. Kolekar, S.N. Talbar and T.R. Sontakke, “Texture Segmentation using Fractal Signature”, IETE Journal of Research, Vol.46, N0.5, pp.319-323, Sept-Oct 2000.
53. S.N.Talbar, and T.R.Sontakke, “Multi-channel Filtering for Texture Classification”, in “New Vision”, *Research Journal of SRTM University, Nanded*, vol.2.no.1,47-52, Sept. 1999.
54. S.N.Talbar, and T.R.Sontakke, “A Review of Multi-channel Multi-resolution Texture Analysis”, in “New Vision”, *Research Journal of SRTM University, Nanded*, vol.1, No.1, pp.81-94, September 1998.

Papers Published in Conferences:

1. Akash Gandhmal, Sanjay Talbar, Suhas Gajre, Ahmad Fadzil M Hani, Dileep Kumar, “Automatic and Unsupervised FEMUR and TIBIA Segmentation using Magnetic Resonance Images”, accepted for OARSI World Congress on Osteoarthritis to be held at Las Vegas, USA April 27-30, 2017. (received Travel grant of \$1000)
2. Sneha Mote, Ujjwal Baid and Sanjay Talbar, “Non-Negative Matrix Factorization and Self-Organizing Map for Brain Tumor Segmentation” accepted for International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2017) at Chennai, March 22-24, 2017 (IEEE Xplorer).
3. Ujjwal Baid, Shubham Talbar, and Sanjay Talbar, “A Novel Approach for Brain Tumor Segmentation based on NMF”, accepted for International conference IESC -2017, NIT Meghalaya, April 5-6, 2017(IEEE Xplorer)
4. Ganesh Singadkar, Shubham Talbar, Sanjay Talbar, “Automatic Lung Field Segmentation using Machine Learning based Feature Extraction”, accepted for International conference IESC -2017, NIT Meghalaya, April 5-6, 2017 (IEEE Xplorer)
5. Ujjwal Baid, Shubham Talbar, and Sanjay Talbar, “Brain Tumor Segmentation based on Non Negative Matrix factorization and Fuzzy Clustering”, accepted for International conference on BioImaging-2017, Porto, Portugal, 21-23Feb 2017 (SCITEPRESS)
6. Ganesh Singadkar, Shubham Talbar, Bhavin Jankharia, Sanjay Talbar, “Automatic Lung Field Segmentation based on Non Negative Matrix Factorization and Fuzzy Clustering”, accepted for WS4, London UK, 15-16 Feb 2017

7. Akshay Dudhane, Ganesh Singadkar, Parang Sanghavi, Bhavin Jankharia and Sanjay Talbar, "Interstitial Lung Disease Classification using feed forward Neural Networks", **International conf. ICCASP, pp.515-521, 26-27 Dec 2016 (ATLANTIS PRESS).**
8. Ujjwal Baid, Shubham Talbar and Sanjay Talbar, "Comparative Study of K-means, GMM and Fuzzy Clustering for Brain Tumor Segmentation", **International Conf. ICCASP, pp. 592-597, BATU, Lonere, 26-27 Dec 2016 (ATLANTIS PRESS).**
9. Satish Chavan and Sanjay Talbar, "Multimodality Medical Image Fusion using Rotated Wavelet Transform" **International Conf. ICCASP, pp. 592-597, BATU, Lonere, 26-27 Dec 2016 (ATLANTIS PRESS).**
10. Akash Gandhamal, S. N.Talbar, Suhas Gajre, Ahmed Fadzil Hani, Dileep kumar, "A generalized Contrast Enhancement Approach for Knee MR Images," in Proc. of ICoSIP_2016, pp.320-325, Oct 6-8, 2016.(IEEE Explorer)
11. S.O. Rajankar S. N. Talbar., "An optimum ECG denoising with wavelet neural network," in Pervasive Computing (ICPC), 2015 International Conference on , vol., no., pp.1-4, 8-10 Jan.2015 (IEEE Explorer)
12. Akash Gandhamal, S. N.Talbar, "Evaluation of background subtraction algorithms for object extraction," in Pervasive Computing (ICPC), 2015 International Conference on , vol., no., pp.1-6, 8-10 Jan. 2015 (IEEE Explorer)
13. Bhakti Baheti, Ujjwal Baid, S.N. Talbar, "A novel approach for Automatic Image Stitching of spinal cord MRI images using SIFT," in Pervasive Computing (ICPC), 2015 International Conference on , vol., no., pp.1-5, 8-10 Jan. (IEEE Explorer)
14. S. O. Rajankar, S. N. Talbar, "Generalized false discovery rate based adaptive thresholding approach for ECG signal compression," in Medical Imaging, m-Health and Emerging Comm. Sys.(MedCom), Int. Conf. on , vol., no., pp.266-271, 7-8 Nov. 2014
15. S. S. Chavan, S. N. Talbar, "Multimodality image fusion in frequency domain for radiation therapy," in Medical Imaging, m-Health and Emerging Communication Systems (MedCom), International Conference on , vol., no., pp.174-178, 7-8 Nov. 2014
16. K.J. Karande, S.N.Talbar, S. S. Inamdar, "Face Recognition using Oriented Laplacian of Gaussian (OLOG) and Independent Component Analysis (ICA)" **Second IEEE International Conference on Digital Information and Communication Technology and its Applications (DICTAP 2012), Bangkok, Thailand, May 16-18, 2012 (IEEE Explorer)**
17. Thakare, Y.B., Wankhade, P.S., Vasambekar, P.N., Talbar, S.N., Uplane, M.D., "Super wideband fractal antenna for wireless communication", IEEE Int. Conf. Wireless Information Technology and Systems(ICWITS), pp.1-4, 2012 (IEEE Explorer)
18. Satishkumar L. Varma and S.N.Talbar , "Local Entropy and Local Moments for Video Indexing and Retrieval," **International Conference on Systemics, Cybernetics and Informatics, February 15 – 18, 2012**

19. Sanjay Patil and S.N.Talbar , “Comparative Analysis of Image Retrieval using Real and Complex Wavelet Transform”, in proc. of Int. Conference on Advanced Computing and Communication Technologies (ICACCT 2011)Panipat, Haryana, pp. 210-215, Nov 2011
20. Sanjay Patil and S.N.Talbar , “Performance Analysis of CBIR system using DWT, Real and Complex Dual Tree DWT”, Int. Conf. on Systemics, Cybernetics and Informatics(ICSCI 2012), Hyderabad, pp. 269-274, Feb 2012
21. Ankit Bhurane and S N Talbar, “Vision Based Authenticated Robotic Control using Face and Hand Gesture Recognition”, Int. Conf. Electronics Computer Tech. pp.64-68, 2011(IEEE Xplore)
22. Pankaj Lande, S.N. Talbar, “Image Adaptive Watermarking using Fuzzy Logic on FPGA” 10th WSEAS Int. Conf. on Signal Proc., Robotics and Automation (ISPRA '11), Univ. of Cambridge, UK, 20-22 February 2011
23. S.N. Talbar and S.L. Varma, “ViSum: Video Summarization Using Dynamic Threshold”, Third Int. Conf. on Emerging Trends in Engineering and Technology, pp.120-123, January 2010 (IEEE Xplore)
24. Halkarnikar P.P, Khandagale H.P., Talbar S.N., Vasambekar P.N., “Object Detection under Noisy Conditions”, Int. Conf. on Methods and Models in Science & Technology, (ICM2ST10), Vol:1324, pp.288-290, 2010 (IEEE Explorer)
25. Halkarnikar P.P, Talbar S.N., Vasambekar P.N., “Object Separation in Shadow Clutter in Video Sequence”, in proc. of Int. Conf. on Radar, Comm. And Computing, (ICRCC-2012), pp.299-302, 2012 (IEEE Explorer)
26. A.K. Deshmane, S.N. Talbar, “Biomedical Image Coding using Dual Tree Discrete Wavelet Transform and Noise Shaping Algorithm”, Int. Conf. on Computer Appl. & Ind. Electronics, Vol.1, pp.471-474, Kuala Lumpur, Malaysia, Dec.2010 (IEEE Xplore)
27. Vijay Ayangar and S.N. Talbar, “A New DWT-SVD Based watermark Scheme” Int. Conf. on Multimedia &Infor. Tech., pp.105-108, March 2010(IEEE Xplore)
28. Rajesh Bodade & S.N.Talbar, “Dynamic iris localization: A novel approach suitable for fake iris detection” In Proc. IEEE Int. Conf. on Ultra Modern Telecommunications, (ICUMT-2009), pp.1-5, St. Petersburg, 2009(IEEE Xplore)
29. Rajesh Bodade & S.N.Talbar, “Iris Recognition using Combination of Dual Tree Rotated Complex Wavelet and Dual Tree Complex Wavelet” In Proc. IEEE Int. Conf. on Communication-2009, (ICC-2009), Dresden, Germany, June 2009, (This paper is cited in paper at IEEE Trans on System, man and cyber) (IEEE Xplore)
30. Rajesh Bodade & S.N.Talbar, “Segmentation for Iris Localisation: A Novel Approach Suitable for Fake Iris Detection” In Proc. Third Bi-annual Int. Conf. on Pattern Recognition and Machine Intelligence-2009, (PREMI'09), IIT, New Delhi, India, Dec 2009. (LNCS-5909/2009), ISSN: 0302-9743 (Print) 1611-3349 (Online)

31. V. N. Pawar, Dr. S. N. Talbar, Object Recognition System: A Survey of Recent Researches. In Proceedings of World Academy of Science, Engineering and Technology, ISSN: 2070-3740, volume 39, pp.323-327, Hong Kong, China, March 2009
32. V. N. Pawar, Dr. S. N. Talbar, Object Recognition using Scale Invariant Features and Support Vector Machine. In Proc. Int. Conf. on Advanced Computing & Communication Technologies, pp.576-583, Panipat, Haryana, India October-2010
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