



**Dept. of Electronics and Telecommunication
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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 8031microcontroller based system design.

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

5. Employment Record(I-431685651):

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	06/11/1986	30/06/1987
KES's College of Engineering, Sakharale, Sangli	Lecturer	06/08/1985	05/11/1986

6. Membership of Scientific and Professional Societies:

- Member, IEEE, USA(93912656)
- Member, Institute of Engineering and Technology (IET), UK1100329794
- Life Member, Indian Society for Technical Education(ISTE), New Delhi (LM5571)
- Fellow, Institute of Electronics & Telecom. Engineering(IETE), New Delhi(F160499)
- Member, International Association of Engineers (IAENG), Hong Kong(111716)
- Member, Association of Medical Physicists of India.(LM2286)

7. Honors and Awards:

- **2021-22: Honored with National Level "A.I.C.T.E. Visveswaraya Best Teacher Award"** for the year 2021-22, from All India Council for Technical Education (A.I.C.T.E.) New Delhi in recognition with outstanding work in technical education. Award carries **Certificate, Memento, and Cash prize of Rs. 25,000/-**. Award was conferred by the Hon'ble Minister of Education, Government of India, on September 5, 2021 (Teachers Day).
- **2017-18: "Best Teacher Award"** for the year 2017-18, from Swami Ramanand Teerth Marathwada University, Nanded to recognize excellent work in the educational field. Award carries **Certificate, University Memento, and Cash prize of Rs. 10,000/-**
- **2019: First prize in "Indian Driving Dataset (IDD) Semantic Segmentation Challenge"** organized by IIIT Hyderabad and Intel at NCVPRIPG Conference, Dec. 2019 (with Bhakti Baheti et al.)
- **2018: Third Prize 2018 MICCAI BraTS Challenge, Spain** 16-21stSept.2018(with Ujjwal Baid et.al.)
- **2017: 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 (with Ganesh Singadhkar)
- **2017: Best Poster Paper Award** titled "Multiscale Directional Mask Pattern for Medical Image Classification and retrieval", at International Conference on Computer Vision and Image Processing-2017" organized by IIT Roorkee Sept 09-12, 2017 (with Akshay Dudhane)
- **2016: Best Paper Award** for paper entitled, "Interstitial Lung Disease Classification using Feed Forward Neural Networks", ICCASP-16, pp.515-521, Dec2016 (ATLANTIS PRESS)
- **2009: 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).
- **2010: 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).

- **2003: Young Scientist Award** for paper titled “Bandwidth Enhancement using Loading Technique and comparison between square Micro strip Antenna” By URSI, Belgium, 2003

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
- Deep Learning

9. Research Productivity:

Total Papers published: **220**

Cumulative Citation Index: **2131**

H- Index: **19**

i10- Index: **53**

Cumulative Impact factor: **115.00+**

Research Funding fetched: **INR 146.3**

No. of ME/MTech. supervised: **91+**

No. of PhD students supervised: **24**

Funding for COE: **INR 720 Lakhs**

Research projects completed: **3**

Conference Organized: **2**

ISTE-STTP/FDP: **10**

Workshops Organized: **18**

Invited Talks in STTP/Conferences: **100**

(List of MTech: [Appendix-A](#)/List of PhD: [Appendix-B](#))

GoogleScholar: https://scholar.google.co.in/citations?hl=en&user=k1PJvBoAAAAJ&view_op=list_works&sortby=pubdate

10. Academic/Institute Leadership:

Always proactive in shouldering responsibilities at department as well as institute level as listed below:

1. **Professor & Head**, Department of Electronics & Telecommunication Engineering at Dr. Babasaheb Ambedkar Technological University, Lonere-Raigad from 31/07/2002 to 31/05/2004.
2. **Registrar**, at SGGSIET, Nanded from 25/08/2004-18/05/2007
3. **Head**, Department of Electronics & Telecommunication Engineering, SGGSIET, Nanded from 1/6/2008 to 28/2/2009.
4. **Dean (Planning)**, at SGGSIET Nanded from 1/3/2009 to 14/08/2010
5. **Dean (Students Affair)** at SGGSOET Nanded from 14/08/2017 to 31/07/2020

In addition, also worked as--

- **Member, Executive Council**, Dr. Babasaheb Ambedkar Technological University, Lonere-Raigad (31/07/2002 to 31/05/2004)
- **Member Academic Council**, Dr. Babasaheb Ambedkar Technological University, Lonere-Raigad (31/07/2002 to 31/05/2004).
- **Member Academic Council**, Swami Ramanand Teerth Marathwad University, Nanded (2018-2020)

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)	Sinhagad Institute of Technology, Lonavala	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 Vivekanand 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	Matoshri COE Nashik	14 Apr 2012

	(Keynote address)		
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 Communication, Computing & Networking (Convener)	SGGSIET, Nanded	15-16March 2013
24	National Conference on Recent Initiatives towards Green Electronics, NCRIGE -2013 (Keynote address)	BrijlalBiyani College, Amrawati	8-9Feb 2013
25	Int. Conf. on Industrial App. of Signal Processing	DACOE, Karad	26 Nov 2013
26	Int. Conf. On Emerging Trends in CS and IT(Session Chair)	Yeshwant College, Nanded	9 Feb 2014
27	International conference on Pervasive Computing (Session Chair)	SCOE, Pune	9 Jan 2015
28	ICISP (Session Chair)	COEP, Pune	29 May 2015
29	ICONSIP 2016 (Chairman, Organizing Committee, Session Chair)	SGGSIET Nanded	6-7 Oct 2016
30	IESC 2017 (Paper presentation)	NITM, Shillong	6-7 th April 2017
31	IC on ES and VLSI 2018	Pune	6-10 th Jan 2018
32	RSNA-2018, Chicago, USA (Paper presentation)	Chicago	26-29 Nov 2018
33	NCVPRIPG (Participation in IDD Challenge)	Hubli	22-24th Dec 2019
34	XIX Annual Conference "Event Based Management of Cancer in India"(Expert Lecture)	TMH, Mumbai	26-28 Feb 2021
35	International Conference Innovations in Computer-Science and Information Technology (Expert Lecture)	SKN COE Pandharpur	25-26 June 2021
36	National Workshop on Research Methodology (Expert Lecture)	WIT, Solapur	25-26 June 2021
37	IEEE Conference on Technologies for Future Cities (Plenary Talk)	PCE, Panvel, Mumbai	8 th Oct 2021

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

(I) Research Projects:

I have been actively involved in preparation of research projects, presentation before expert committee and received funding for different research projects as listed below:

- **Principal Investigator:** AICTE-RPS "Texture Analysis-A Multiresolution Analysis (Rs. 8.6Lakhs) during 2000-2002. Digital Image Processing Laboratory

- is developed under this project with CCD camera, frame grabber and 10 Pentium computers
- **Principal Investigator/Nodal Officer:** Vphd Scheme (Flagship program) from Ministry of Electronics and Information Technology (123Lakhs), Govt. of India. Three students have selected for PhD with fulltime scholarship.
 - **Principal Investigator:** Rajeev Gandhi Science and Technology Commission, Govt. of Maharashtra Project Topic: “Design and development of CAD for Lung Segmentation for CT Images” (14.7Lakhs).
 - **Co-Principle Investigator** for the “Centre of Excellence in Signal and Image Processing” established at SGGSIET, Nanded (Funding of Rs.7 Crores from TEQIP, MHRD, GoI) and
 - **Convener,** National Conference on Communication, Computation and networking Technologies, 13-14 March 2013.
 - **Project Manager:** Designed and implemented **research project** “Gesture Recognition using Hidden Markov Model” at Ocean Networks India Ltd., Pune [2001].
 - 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) Patents Filed: 5+1

1. A Variable Digital Architecture Reconfigurable for multiple Analog to Digital Converter Using structural Approach (with Umesh More) [Application No.2021210267458](#), [Publication date:16/07/2021](#).
2. Computer and Embedded Computing Platform based Front Foot No Ball Detector using Stump Camera with Image Processing Approach and Method”, (with Mr. Naresh Sawale), [Application No:202021045045](#), [Publication Date:13/11/2020](#)
3. Electronic Gadget for preventing Accident due to Drowning and Method (with Akshay Ramesh Amrutkar, Hemant Balu HJaisingpure, Pavan Ashok Bhujade), Published 20/9/2019 ([Issue No.38/2019](#), [Application No:201921033101](#), [Publication Date:20/09/2019](#))
4. Reconfigurable Single Digital Output stage Architecture for Three Different Analogue to Digital Converter (with Umesh More), [Application No.201821045704 A](#), [Published Issue No:06/2019](#), [Date of Publication 08/02/2019](#)
5. A New Fast and Efficient Encoder: Cache-Based Coding for Error Free Image Data Compression (with Satish Varma), [COPYRIGHT](#), [Diary Number: 3021/2018-CO/L, 27/02/2018](#)
6. Methodology for unsupervised & Automatic Segmentation of Tibia and Femur Bones of Knee Magnetic resonance Images (with Akash Gandhmal, Deelip Kumar) [Application Number – 2016703901, 2016](#)

(III) MOU for Internships/ Research:

- Took keen interest to improve Institute-Industry interaction during last several years.
- Proactively interacted with various industries and signed MOUs with following industries so as to promote interaction with industries and finally extract benefit to students in terms of UG/PG summer internships, projects internships and placement activity.

- 1. MOU with Tata Memorial Hospital (2013-2016)**
- 2. MOU with Tata Memorial Hospital (2020-2025)**
- 3. Jankharia Imaging Lab, Mumbai**
- 4. Life Line Diagnostic Centre, Nanded**

(These MOUs helped a lot for research students for Indian database with expert knowledge exchange and validation of results. This has been benefited for 5PhD & 10 PG students in the area of Biomedical Imaging)

5. MOU with Military College of Telecommunication, Mhow, Indore (2019--).
6. MOU with ECIL Hyderabad (For UG/PG student internships/projects)
7. MOU with VSAS and SPJ Embedded Technologies Pune (Internships/Expert lectures/Workshops)
8. Paraloxami Technologies, Banglore (UG/PG students internships in AI domain) (These MOUs are useful for interships/project work)

MOU with International Level Universities like:

9. MOU with UTP Malaysia (2013-2016)
10. MOU with UTP Malaysia (2016-2020)

(Under this MOU 6 faculty members visited UTP Malaysia twice for seminar/workshop. The 3-Phd students done research internship for 6-12 months and 4 PG students done various workshops & internship. Two students have been selected for Post Doc position at UPen, USA from August 2020.

13. Foreign Visits:

- a. Visited Ohio State University for LEAP program sponsored by MHRD GoI and coordinated by AMU,(20Aug-5th Sep)during 8-15th Sept 2019.
- b. Visited Stanford University, CA and attended RSNA2018 at Chicago in 24-28 November 2018
- c. Visited UTP from 2nd -8th August 2016 for CISIR_SGGSIET Workshop.
- d. Visited National Technological University, Singapore 30/08/2013
- e. Attended to short term courses at UTP Malaysia “Statistical Inference Theory” 24-25/8/2013 and Advanced Medical Imaging on 29/08/2013
- f. MoU with Universiti Teknologi Petronas, Epoh, Malaysia for joint research programme August 2013.
- g. Collaborative research Programme with Prof. Jonathan Chambers, at DSP Centre, Cardiff University, Cardiff, UK from 7thMay- 3rd June, 2005

14. Industry Visit and Internship

- a. 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
- b. Every year at least One Sponsored project for UG students from SPJ Systems Pune
- c. Upgraded “Embedded VLSI Lab” with donations from Texas Instrument (MSP430 kits) and ACTEL, USA thr’ Reanu Micro Electronics, Pune
- d. Conducted Workshops for UG as well as PG students in the area of Embedded Systems once in every semester for 15 years.

15. Research Consultancy/ Training Offered

SN.	Year	Brief Description of Activity	Revenue Generated
1	2019-20	Conducted two courses (Digital Image Processing and Advanced Embedded System using LPC1768) in Two Months Basic Training Program “RF and Microwave Technology” for Training Activity under CSR activity of KCTI, Bharat Forge, Pune	
2	2016	TEQIP sponsored STTP on “Computer Vision & Pattern Recognition”	TEQIP sponsored Rs.3.00 Lakhs
3	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)
4	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
5	2010	Upgraded Embedded Lab with donations from Texas Instrument (MSP430 kits)	Rs.0. 50 Lakhs
6	2004	Developed Communication Laboratory under MODROB Scheme [Rs. 5.5Lakhs 2004]	Rs. 5.5 Lakhs
7	2004	ISTE-AICTE STTP on “Computer Vision” from March, 1- 12 2004 (DBATU, Lonere)	ISTE Sponsored (2.2Lakhs)
8	2003	ISTE-AICTE STTP on “Embedded System Design” December 1-13, 2003(DBATU, Lonere)	ISTE sponsored (2.2Lakhs)
9	2003	ISTE-AICTE STTP on “Modern Computer	ISTE Sponsored

		Networking”, Nov. 3-14, 2003(DBATU, Lonere)	(2.2Lakhs)
10	2000	ISTE-AICTE STTP on “Digital Signal and Image pro.” with Dr. Y.V. Joshi from June 5-17, 2000.	ISTE Sponsored (2.2Lakhs)
11	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/-
12	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
13	1998	Established Computer Lab, in the department through DCA project [MODROB, Rs. 17.0 Lakhs]	Rs. 17.0 Lakhs

Visited Medhavi Cement Products plant in Nanded, Maharashtra with two faculty colleagues, to identify opportunities for improvement, on Jan 31, 2015. The major area for improvement was automation, with four distinct automation projects identified.

- 1] Cage Welding Machine
- 2] 3-Edge Load Bearing Test Machine
- 3] Hydrostatic Test Machine
- 4] Post Manufacturing Automated Handling of Pallets

Out of these four projects, we designed “Cage Welding Machine” which will automate the welding process at the wireframe joints of the round cages used in reinforced cement pipes. The goal was to first design the prototype, put it to work, refine as necessary, and subsequently productize the machine for sale. The complete simulation was initially prepared with CAD software and then prototype was successfully completed with the help of M.Tech. students from Electronics, Instrumentation and CAD-CAM in 2015-2016.

16. Short Term Course Conducted and Coordinated(sponsored)

1. TEQIP_II sponsored STTP on “Computer Vision and Pattern Recognition” during 13-23 July 2016.
2. AICTE Sponsored STTP on “Recent Advances in Speech, Image and Video Processing” at SGGSIET, Nanded, on 12-23th December 2011.
3. Coordinated Short Term Intensive course on “FPGA and DSP Design Flow” with expert from CG Corel, Bangalore [Feb2008]
4. Coordinated ISTE STTP on “Research Methodologies in Image Processing” at KBPCOE, Satara, December 1-12, 2008.
5. ISTE-AICTE STTP on “Computer Vision” from March, 1- 12 2004.
6. ISTE-AICTE STTP on “Embedded System Design” December 1-13, 2003.
7. ISTE-AICTE STTP on “Modern Computer Networking”, Nov. 3-14, 2003.

8. Intensive course on JAVA Programming for staff and students of SGGGS College of Engineering and Technology, Nanded, Jan-March 2001.
9. ISTE-AICTE STTP on “Digital Signal and Image processing” with Dr. Y.V. Joshi from June 5-17, 2000.
10. Ten days short-term course on Computers for Commerce Teachers of SRT Marathwada University, Nanded, with Dr. Y.V. Joshi, December 1998.
11. STTP on “Computer Programming and Applications”, Dec. 1990.

17. Professional and Other Activity:

➔ Working as reviewer for following international journals:

- IEEE Reviews in Biomedical Engg
- IEEE Transaction on Fuzzy Sets
- IEEE Access
- ACM Transactions on Multimedia Computing Communications & Applications
- Elsevier Pattern Recognition
- Elsevier-Computers in Biology and Biomedical
- Elsevier- Biocybernetics and Biomedical Engineering
- Elsevier- Concurrency and Computation
- Wiley- Computational Intelligence
- SAGE- Digital health
- **Taylor and Francis-** Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization
- Hindawi- Journal of Healthcare Engineering
- Hindawi- Computational Intelligence and Neuroscience
- Hindawi- Applied Computational Intelligence and Soft Computing
- Elsevier- Infomatics in Medical Unlocked
- IETE Technical Review
- International Journal of Imaging Systems and Technology
- Transaction on Systems, Machines and Cybernetics
- Journal of Information Processing, South Korea
- 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	Summer School on Artificial Intelligence	IIIT Hyderabad	4 weeks	8-31 st Sept 2021
2	Introduction to Deep Learning	IIIT Hyderabad	1-week	10-15July 2017
3	Advance Imaging Techniques for Biomedical Applications	University Teknologi PETRONOS, Malaysia	1-day	29/08/2013

4	Statistical Inference Theory and Practice	University Teknologi PETRONOS, Malaysia	2 days	24-25/8/2013
5	Wavelets	IIT Mumbai (DBATU Lonere)	1 week	31/07/2013-4/08/2013
6	Workshop on Biodesign	SIB,AIIMS Delhi and SGGSIET Nanded	2 days	8/8/2013-9/8/2013
7	TI Microcontrollers	Texas Instrument, Banglore	1 week	07-11 Feb 2011
8	Wireless Standardization	GISFI Workshop	3-days	26-28 Feb 2010
9	Virtual DSP Lab	IIT Powai, Mumbai	2-days	13-14 Dec2010
10	Signals, Systems and Signal Processing	IUCEE, Infosys, Mysore	1 week	06-10 July 2009
11	Fundamentals of FPGA & DSP Design Flow	CG Corel Programming Solutions Pvt. Ltd. Banglore	1 week	18 -21 Feb 2008
12	Building World Class Institutes	Sinhgad College of Engineering, Loawala	1 week	21-24 Nov 07
13	Embedded Linux on ARM	SPJ Embedded Tech. At I2IT, Pune	3-days	18-20 Oct07
14	Embedded System and Technology	IIT Kharagpur	1 week	19-24 June06
15	DSP Tools and Practices	IIT Kharagpur	1 week	12-17 June06
16	Management Capacity and Vision Development	PWIM, Mumbai	3-days	Jan'06
17	VLSI Signal Processing	IIT Kharagpur	1 week	23-29 Dec'06
18	Institute Capacity Development for Future	ASCI, Hyderabad& SGGSIET, Nanded		Dec' 2005
19	Signal and Image Processing	IISc, Banglore	2 weeks	Feb'98
20	Intensive Course on TELEMATICS	IIT, New Delhi	(2 weeks)	Dec'97
21	Recent advances in DSP	MalnadCollege of Engg. Hassan	2 weeks	June'94
22	Parallel Processing	IIT, Kharagpur	1 Week	June '94
23	Advanced Computing	C-DAC, Pune	1 Week	June '93
24	Electronic Measurement Tech. & Equipment Maint.	IIT, New Delhi	2 weeks	July '90

25	UNIX and C Programming	Govt. College of Tech., Coimbatore	2 weeks	Jun' 88
26	16- bit Microprocessors	KREC, Suratkal	2 weeks	Dec' 88
27	Induction Training Course for Technical Teachers	TTI, Bhopal	4 weeks	Nov-Dec'85

19. Contribution towards Academic activities: University Recog.

- Member, BOS, SAGE University, Indore(2019-2022)
- Member, BOS, WCE, Sangli(2018-2021)
- Member, RRC, PADH Solapur University, Solapur (2019-2021)
- Member BOS, SGGSIET, Nanded (2004-2022)
- Member, BOS, GCE, Aurangabad (2015-2020)
- Member, BOS, RIT, Sakharale, Sangli (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 (2013-2016)
- Member of RRC of SRTMU Nanded (2012-2021)
- 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 VC, SRTMUN.
- Research Guide of Electronics / CSE, SRTMU, Nanded
- PG Teacher, in the Subject of Electronics Engineering, DBAMU, A'bad(1994)
- PG Teacher, in the subject of Electronics Eng, SRTM University, Nanded(1996)

NBA/NAAC:

- UG and PG programmes of Electronics and Telecommunication Department has conducted four cycles of NBA accreditation.
- Actively participated in all NBA activities of department right from preparation of SAR documents till the completion of visit.
- Worked as a member of “NAAC SSR preparation and Coordination team” of SGGSIET Nanded from 2018-2020 and responsible for preparation of student activities and related information. I have taken whole heartedly participated in all NAAC related activities.
- Working as a member of IQAC Cell of SKN College of Engineering, Pandharpur (2018-2021)

Contribution to Govt of India Committees/Initiatives:

- worked as a member of EVC committee appointed by AICTE for inspection for new institutes/Surprise Visits of various technical institutes all over India from 2010-2019.
- Also worked as Reviewer for AICTE-RPS proposals.
- Actively participated in “Skill India” initiative of Govt. of India and delivered Lectures on “Future Skilling”.

20. Co-curricular Activity/Sports/Gymkhana/NSS/NCC:

As a a Dean(Students Affairs) (14/08/2017 to 31/07/2020) responsible for conducting Co-curricular and Extracurricular activities of students.

- Coordinated sport activities like Intra-Institute competitions, promoted students participation, and won 15 prizes out of 18 events (Winner and Runner-up) conducted at University level (SRTMU Nanded) and promoted participation of students at Inter-University competitions.
- Coordinated state level Inter-college sports competitions (**Zenith**) successfully for three years. About 1200 students participated all over Maharashtra for 15 different sport events with sponsorships from various local industries.
- Conducted Blood donation camps as well as “Shwacha Bharat Camp” twice a year with NSS students group.
- Coordinated “Dream Marathon” competition in Nanded City during 2018 and 2019. About 3000 people participated in this Marathon event including school children in and around Nanded City.
- Planned & developed ‘**state-of-the-art**’ **GYM** for students(2019-20).
- Coordinated all activities related for “**student Council**” spread though out academic year with various student groups like drama club, dance club, Art club
- Conducted “**Annual Social Gathering**” during 2017-2020.

21. Community out Reach Activity/Hackathon/Technical clubs:

- During tenure as Head(2008-2009), departmental students initiated “Robotics Club” and “R&D KC Club” and continued as a faculty coordinator for 3 years.
- During Dean(students Affair), coordinated all 5 various Technical club activities conducted throughout the year. This includes Technical clubs like RNXG club, team Praveg, Team Phonix, Team MTrix, etc.
- Responsible for “National level Students Technical Festival (Pragya)” during 2018-2020. There were about 30 different technical events/competition conducted with participation of about 1000 students.

- Faculty coordinator for VOICE Club and supported to students for conducting various technical as well social activities. like workshop by Industrial experts, Camps for handicap & Orphan students.
- Lead role to promote Hackathon since its inception for students .
- worked as a member of Institute Grievance Committee and Vishakha – Women Grievance Committee during 2017-2020.

22. Lectures Delivered at National level:

- Delivered expert lectures in the following short-term courses and National/International level workshop/Seminars/Conferences.
1. Plenary Talk at IEEE Conference on Technologies for Future Cities, PCE Panvel, 8-9th October 2021
 2. Expert Lecture at National Level Workshop on “Research Methods for Engineering”, at Walchand Institute of Engineering, Solapur 25th June 2021.
 3. Key Note Address and Session Chair at International Conferences on Computation Intelligence in Engineering Systems at SKN College of Engineering, Pandharpur (Solapur). Topic: “Advanced Driver Assistance Systems Applications” On 25/06/2021
 4. Faculty Lecture at Annual Conference on “Event Based Management of Cancer in India” by Tata Memorial Hospital, Mumbai 27/02/2021
 5. Course conducted on “Digital Image Processing” at 2 Months Basic Training-“RF and Microwave Technology” coordinated by KCTI-Bharat Forge CSR Activity 12Oct-31th December 2020.
 6. Course conducted on “Advanced Embedded System” at 2 Months Basic Training-“RF and Microwave Technology” coordinated by KCTI-Bharat Forge CSR Activity 12Oct-31th December 2020.
 7. Expert lecture at FDP-ISTE, “CNN Architectures for Image Processing” at AISSMIIT, Pune, 26th October-2020
 8. Expert for Research Panel discussion at International Conference on Computing in Engineering and Technology (ICCET2020) at MGM’s COE, Nanded 10/01/2020
 9. Expert lecture at FDP-STTP, “Research Trends in Medical Imaging: Brain Tumor Segmentation” at SKNCOE, Pune, 5th october2020
 10. Expert Lecture for PG and Faculty “Introduction to Deep learning” at KJSCOE, Mumbai 15th May, 2019
 11. Expert Lecture on “Introduction to Deep learning” at DBIT Mumbai, 15th May 2019
 12. Expert Lecture at TEQIP-SDP on “VLSI Design” at SGGSIET, Nanded 22-24 February 2018.

13. Guest Lecture at VP-KBIET Baramati on Image Processing Applications & Research” – specific Topic-“Deep Learning Approach for Medical Image Segmentation” 10/10/2018.
14. Expert Lecture on “Introduction to Image Processing and Pre-processing Techniques” at AICTE-STTP on “Image Processing Advances & Challenges” at Sinhad College of Engineering, Pune 11/12/2017
15. Key Note Speaker, Reviewer and Session Chair at International Conference Contents, Computing and Communications (ICCCC-2017) at Matoshri College of Engineering & Research, Nasik, 18/04/2017
16. Expert Lecture on “Image Transforms” at FDP on “Image Processing-Advances and Research Challenges” Sinhad College of Engineering, Pune December 11-15, 2017.
17. Expert Lecture on ”Multiresolution Analysis” at First CISIR-SGSIET Workshop held at CISIR, UTP Malaysia 2-8 Aug 2016.
18. Expert Lecture on “Multiresolution Analysis” at AICTE-STTP on “Select Topics in Signal Processing & Machine Intelligence with Hands on” at College of Engineering, Pune 26th May 2016
19. Expert Lecture on “Introduction to Computer Vision” at TEQIP-STTP on “Computer Vision & Pattern Recognition” at SGSIET, Nanded 13-23 July 2016
20. Resource Person for ”MATLAB and its Application in Engineering” at One Week MSBTE STTP at Govt. Residential Women’s Polytechnic Latur 7th Jan 2016
21. Expert Lectures for PG Students on “Advanced Image Processing” at DKTI’s Institute of technology, Ichalkarnji (Kolapur) on 14/10/2016
22. Expert Lecture on “Multi-Resolution Techniques for Pattern recognition and Classification” STTP at ADCET, Ashta (Sangli) 7/12/2016
23. One Week Full course conducted on “Recent Trends in Image Processing-Wavelets and Machine Learning” at JJMCOE, Jaisingpur(Kolhapur), 28/11-2/12/2016
24. Expert Lecture on “Multiresolution Analysis” at STTP on “Research Opportunities in Signal Processing & Neural Network”, NMIS-MPSTME, Mumbai 16 July 2015
25. Resource Speaker on “Recent Trends in Image Processing” at FDP on “Recent Methodology for PhD Aspirants” at KJSIIT, Sion Mumbai 12/05/2014
26. Expert Lecture on “Intelligent Video Surveillance” for UG students at WIT, Solapur 3/11/2014
27. Resource Person on “Image Processing”at FDP on “Embedded Image Processing” at SCOE Pune 6-10th May 2013
28. Resource Person one week workshop on “Signal and Image Processing” at Zeal College of Engineering 15-20 April 2013

29. Invited Talk and Session Chair National Conference Recent Initiative towards Green Electronics (NCRIGE-2013) at BrijLal Biyani Science College Amravati 8-9Feb 2013
30. Key Note Address National Conference on Recent Trends in VLSI, Embedded Systems, Signal processing & Communications” at VVP Institute of Engineering & Technology, Solapur, 10/01/2013.
31. Expert Lecture on Embeddded Systems” MSBTE-STTP at Gramin Polytechnic, Nanded 2013
32. Expert Lecture on “Image Transforms & Applications” at TEQIP-SDP on “Signal & Image Processing with wavelets” at VJTI, 21-23/12/2013
33. Expert Lecture on “Image Compression” at AICTE-STTP on “Advances in Signal and Image Pro.,” GCOE, Jalgaon, 27 Nov. 2012
34. Chief Guest for Inaugural Function, Key Note Speaker and Session Chair at National Symposium on Engineering and Research(NSER-2012) at Matoshri College of Engineering & Research, Nasik, 14/04/2012
35. Resource Person at Workshop on “Image Processing and Computer Vision” at JJMCOE, Jaisingpur, 3-4 August, 2012
36. Key Note Speaker, Panel Discussion and Session Chair at “National Conference on Machine Vision & Image Processing” at COEP 7th- 9th December 2011.
37. Expert Lecture at One Week FDP on “MATLAB with Simulink for DSP” at AG Patil Institute of Technology, Solapur 22-23 January 2011
38. Coordinator & Expert Lecture at AICTE-SDP “ Recent Advances in Speech, Image and Video Processing at SGGSIET, Nanded 12-23 Deceber 2011
39. Expert Lecture on “Introduction to Image Processing & Applications” at MCOE, Jalana, 17/9/2010
40. ISTE STTP FDP on “Applications of Image Thinning Methodology” at BVRIT, Narsapur, Medak, AP, 23nd June, 2009
41. Expert Lecture on ‘Embedded System”, at MSBTE sponsored SDP KKW Polytechnic, 14, Sept 2009
42. State Level Workshop on “MATLAB Programming & Applications” at AISSMs’ IIT, Pune 18th Sept. 2009
43. Key Note Speaker at IETE-National Conference Electronics Communication and Computers (NCCC-2009) at NaviMumbai 13-14/02/2009
44. Key Note Speaker on “Pattern recognition” at IET National Conference on Signal & Image Processing Applications” at COEP 19-20 September 2009

45. Resource Person at Workshop on Image Processing at PVPPCOE, Sion Mumbai, 18-19 oct 2008
46. Resource Person at ISTE STTP “Advances in Signal Proc. & Soft Computing”, May 18-22, 2009
47. Resource Person at IEEE National Workshop on “Wavelets and Applications”, at SGGS, 2009
48. ISTE STTP on “Image Transforms and applications” conducted by Don Bosco Institute of Technology, Mumbai 2nd January 2008
49. ISTE STTP on “Wavelet Transforms and applications” conducted by KJ Somya Institute of Information Technology, Sion, Mumbai on 10th Jan. 2008
50. Expert lecture on” Fundamental of Pattern Recognition”at State-Level Workshop on DSP organized by SVK College of Engineering, Chincholi, Nasik, 12 January 2008
51. Expert Lecture[Dr. Ram Manohar Lecture Series] at Science College Nanded for Faculty and MSc(Extc) students, Topic: ”Fundamentals of Image Processing” and “Embedded Systems” on 25 February 2008
52. Expert Lecture at Ramdeobaba Kamala Nehru College of Engineering, Nagpur, Topic: “Applications of Image Processing: OCR, Satellite Image Proc, Digital Watermarking” on 10 March 2008
53. Invited Talk at National Conference Computing Communication & Electronica at KCE, Jalgaon 08/02/2008
54. Resource Person at ISTE-STTP on “Digital Image Processing” conducted by BNCOE, Pusad on April 2008.
55. Expert Lecture at AICTE-SDP on “Current Trends in real Time Applications of DSP & Image Processing” at BVU’s College of Engineering Pune 16/06-28/06/2008.
56. Resource Faculty/Person at Training program on “MATLAB for Engineering Teachers ” (under Lead College Scheme of Shivaji university) at KBPCOE, Satara 9-14/06/2008
57. Resource Person “Image Processing” at AICTE-STTP at DBIT, Mumbai 10/1/2008
58. Expert Lecture at MGMCOE, Nanded for final year Electronics students on “Embedded Real Time Image Processing” 13/10/2007
59. Resource Person at Two days FDP on “Signal and Image Processing” at RIT, Sakhrle, Sangli, 19-01-2007
60. Expert Lecture on “Image Transforms and Compression” at AICTE-SDP on “Advanced DSP” at Sinhad College of Engineering, Pune 08/12/2007.

61. Expert Lecture at AICTE-STTP on “Image Processing & Application” at JDIT Yeotmal, 29th October-2Nov Nov2007.
62. Resource Person on Pattern Recognition at STTP on “Soft Computing” at VIIT, Pune 17/-7/2007
63. Expert Lecture on “Recent Advances in Image Processing” at JDIT, Yeotmal, 28/02/2006.
64. Expert Lecture on “Wavelet Transform and its Applications” at Basweswar College of Engineering, Bagalkot, Karnataka October 2006.
65. Expert lecture on “Advances in Signal Processing”, ISTE-STTP, BES’s COE, Ambajogai, July2006
66. Expert Lecture on “Image Processing: Preprocessing” at AICTE-ISTE-STTP on “Image Processing and Multimedia Systems” at VJTI Mumbai (7/6/2004-2/7/2004(Maharashtra)
67. Expert Lecture “Introduction to Image Processing & Applications” at PRCOE, Loni, Pravara Nagar, 2004
68. Expert Lecture on “Texture Analysis” at STTP Signal and Image Processing Application in Instrumentation, VIT, Pune, 27/03-10/04/2004
69. Expert Lecture at ISTE-STTP on “Computer Vision” at DBATU, Lonere, Raighad March, 2004
70. Expert Lecture at ISTE-STTP on “Embedded System Design” at DBATU, Lonere, Raighad 2003
71. Expert Lecture at ISTE-STTP on “Modern Computer Network” at DBATU, Lonere, Raighad 2003
72. Resource Person at ISTE-STTP on “Programming Paradigms: Verification Perspective” at SGGSIET, Nanded, 8-20th December 2004
73. Resource Faculty/Person at ISTE-STTP on “Programming with C & C++” at SGGSIET, Nanded, 29th June-19 July 2004
74. Resource Faculty/Person at ISTE-STTP on “Digital Signal Processing ” at SGGSIET, Nanded, 16-27/02/1998
75. Session chair at First “Doctoral Symposium on Natural Computing Reserach (DSNCR-2020) at SKNCOE Pune 8August 2020
76. Session chair at International Conference on “Signal and Information Processing (ICONSIP-2016) at SGGSIET Nanded, 6-8Oct 2016
77. Session Chair at National Conference “Instrumentation, Control and Signal Processing” at SGGSIET, Nanded 8-9th July 2013.

78. Session chair at International Conference on “Emerging Trends in Computer Science & Information Technology” at Yeshwant Mahavidyalaya, Nanded 9-10Jan2010
79. Session chair at International Conference on “Industrial Instrumentation & Control (ICIC2015)” at COEP, 29May 2015
80. Session chair at International Conference on “Pervasive Computing (ICPC2015)” at SCOEP, 8-10 January 2015
81. Session chair at National Conference on “Advances in Computation,Networking and Security ” at SGGSIET Nanded 23-24 December 2013
82. Expert Lecture on “Recent Trends in Image Processing” at PVPCOE, Ahmednagar, 2003
83. Expert Lecture on “Computer Programming” at UGC-FDP at SRTMU, Nanded 2001
84. Expert Lecture on “Recent Trends on Image Processing” at SIESCOE, Nerul-Navi, Mumbai 2010
85. Expert Lecture on “Image Processing” at RAIT, Nerul 2005
86. Expert Lecture on “Fundamental of Image Processing & MATLAB Programming” at STTP at KITS, Huzurabad, Warangal, AP 2005
87. Expert Lecture on “Recent Trends in Image Processing & Pattern Recognition” at UGC-FDP at Dept. of CSE&IT, DBAMU, Aurangabad 2005
88. Expert Lecture for PG students on “Computer Vison: Texture Analysis” at MGMCOE, Nanded, 2012
89. Invitation for “Project Evaluation: Concept2008” @PICT, Pune 14.03.2008
90. Expert Lecture to PG students on “Image Processing” at WCE, Sangli, 2008
91. Expert Lecture at SEVRI COE Pandharpur, 2013
92. Expert Lecture “Image Processing” at PG Computer Science department of Shivaji University Kolhapur, 25/11/2013
93. Resource Person at ISTE-STTP on “Digital Image Processing” conducted by BNCOE, Pusad on April 2008.

Dr. S.N.Talbar

Appendix A
List of M.Tech. Students Guided

SN	Name of the student	Title of thesis	Year of
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			Completion
91	Kajal More 2018MEC004	Person Re-Identification	Sept 2020
90	Seema Patil 2018MEC014	Medical Image Analysis	Sept 2020
89	Neha Bhawtankar 2018MVE010	Novel CMOS CFDITA and Its Application as Electronically-Tunable Bistable Multivibrator	Sept 2020
88	Neha Todewal 2017mec021	Breast Cancer Detection using U-Net	July 2019
87	Rahul Gachhe 2017mec003	Satellite Image Fusion	July 2019
86	Kiomal Ghoti komalghoti2793@gmail.com	Bone Fracture Segmentation using U-NET	July 2019
85	Priyanka Dube 2017MVE006	FPGA based Video Processing Board	July2019
84	Pratiksha Ratnalikar 2017MVE011	IOT based Parameter monitoring System (LUANS ELECTRONICS A'bad)	July 2019
83	Ankit Gurjar 2017MVE016	Adaptive Cruise Control (TCS, Nagpur)	July2019
82	Praful Hambarde (2016MEC006)	Prostate Lesion Segmentation in MRI using ML and deep learning Techniques	July2018
81	Poonam Zagade (2016MEC013)	Brain Tumor Segmentation using Deep Learning	July2018
80	Shradha Kulkarni (2016MEC007)	S-Transform (TCS)	July 2018
79	Sneha Bundele (2016MEC015)	Deep Learning Based Approach for Lung Nodule Detection	July2018
78	Shivanand Deshmukh (20016MVE011)	Implementation of Prevention for Ransomware Impacts on Home Autom.	July2018
77	Ketki Borole (2016MEC009)	Home Automation Gateway to Study Different Wireless Protocols	July 2018
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	July 2016

		FPGA Prototyping (Synopsys, Bangalore)	
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 Dete. & 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 WT	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	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 Trans.	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 Tran.	July 2001
26	M.S.Patil	Data Fusion using Wavelet Trans.	April 2000
25	K.C.Jondhale	Operator Based Image Segmen.	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 Reser. Sys	
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 dete.	Sept 1999
16	M.B.Kokare	Texture Classification using WT	April 1999
15	V.Rajesh	Texture classification using DWT	March 1998
14	S.C. Deshpande	Image Compression & Classi.using	March 1998

		Laplace in Pyramid	
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 algo.	May 1998
10	M.H.Kolekar	Texture Classification using Fractal Dimension.	Oct 1998
9	A.K.Khachane	Image Compression Wavelet Trans.	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 Tech. to performs compatible smart Trans	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)
29	Ms. Shweta Tyagi	Lung cancer detection and Classification	July, 2019
28	Ms. Swati Pawar	Development of Deep Learning Algorithms for Lung Cancer Analysis	April 2019
27	Mr. Devidas Krushnure	Some studies on automatic liver segmentation	April, 2019
26	Mr Rushikesh Tambe	Design Algorithms for Satellite Image Analysis	Sept 2017 – Submitted June2021
25	Ms. Bhavna Nerkar	Plant Disease classification	2016
25	Ms Bhakti Baheti (Co-guide)	A generic Object Detection Approach for Advanced Driver Assistance System Applications (Co-guide)	Dec 2015 – Nov 2020 (Completed 23/11/2020)
24	Mr. Ujjwal Baid	A Novel Approach for Brain tumor Segmentation and Analysis	Sept 2015 – Sept. 2020 23/10/2020
23	Mr. More Umashankar R.	Design and analysis of variable resolution iterative Analog to Digital Converter	24 December 2014 – ThesisSubmitted June2021
22	Ms. Pawar Meenakshi	Computer aided analysis of Mammograms for Breast Diseases	24 December 2014 –2019 Completed 3/5/2019
21	Mr. Sapate Suhas G.	Design and development of algorithms for automatic breast cancer detection	15 September 2014 Completed 21/06/2019

20	Mr. Gandhamal Akash P.	Volumetric Assessment of Articular Cartilage in Knee Osteoarthritis using MR imaging	Sept 2014-2018 28/04/2018
19	Mr. Singhadkar Ganesh	Lung Cancer Segmentation	(2014-2020) Completed on 09/06/2020
18	Mr. Satish S. Chavan	Bio Medical Image Analysis	(2011-18) 28/04/2018
17	Ms Archana Sable	Face Recognition through Enhanced Algorithms and techniques	(Nov2011-Feb2018) 24/02/2018
16	Mr P P Halkarnikar	A robust approach for localization of Standard object from moving images in visually cluttered environment	(2012-2017) 12/04/2017
15	Mr. Gamil Rasheed Salman Quid (Yemen)	Encryption and Decryption of Image using Multi-objective Soft Computing Algorithm	(2011-2016) 13/01/2016
14	Ms. Rajankar S.O.	Qualitative Evaluation of Algorithmic Approaches to Biomedical Signal Comp.	(2009-2016) 13/12/2016
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
12	Mr. Thakare Y. B.	Design of Fractal Micro-strip Antennas and their back scattering analysis	(2008-2015) 19/06/2015
11	Mr. Patil S.R.	Performance Analysis of CBIR Systems	(2008-2014) 08/03/2014
10	Mr. Pawar V.N.	Investigation of Machine Vision Algorithms for Object Recognition	(2008-2013) 25/03/2013
9	Mr. Varma S. L.	Content Based Video Analysis and Retrieval	(2008-2013) 26/03/2013
8	Mr. A.K. Deshmane	Biomedical Signal Compression	(2007-2012) 13/3/2012
7	Mr. Pankaj Lande (Co-guided)	Hardware Architectures for Watermarking Algorithms	(2006-2011) Nov 2011
6	Mr. Bodade R.M.	Irish Based recognition using ICA	(2006-2011) 23/9/2011
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
4	Mr. Karande K. J.	Biometric Face Recognition using ICA	(2007-2011) 6/5/2011
3	Mr. Saleh Abdelghani Abdo, Ibb University, Sana'a, Yemen	Satellite Image Classification and Change detection	(2006-2010) 9/8/2010
2	Mr. Pardeshi S.A.	Automatic Face Recognition System Using Multi-Channel Filtering Approach	(2004-2010) 7/05/2010
1	Mr. Upadhyay A.R.	Non Linear diffusion and Its Applications in	(2004-2009)

	Image Enhancement & Segmentation	10/06/2009
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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. Meenakshi M. Pawar, Suvarna D. Pujari, Mrs. Swati P. Pawar, S. N. Talbar, “MuSCF-Net: Multi-scale, Multi-Channel feature network using Resnet Based Attention mechanism for breast histopathological image classification, accepted for Book **MACHINE LEARNING AND DEEP LEARNING TECHNIQUES FOR MEDICAL SCIENCE**, CRC Press, Taylor & Francis, USA.

2. Sweta Tyagi, Sanjay Talbar, "A Novel Approach to Lung Tumor Segmentation using a 3D Convolutional Neural Network, "Handbook of Research on Applied Intelligence for Health and Clinical Informatics" (IGI Global), Accepted, 2021
3. Devidas Kushnure and Sanjay Talbar, "DMSAN: Deep Multi-Scale Attention Network for Automatic Segmentation of Liver on Abdomen CT Images", Medical Imaging and Health Informatics, Accepted 2021
4. Devidas Kushnure and Sanjay Talbar, "M2UNet++ A Modified Multi-Scale UNet++ Architecture for Automatic Liver Segmentation in Computed Tomography Images," Handbook of Research on Applied Intelligence for Health and Clinical Informatics (IGI Global), Accepted, 2021
5. Ujjwal Baid, S. N. Talbar et al. , " Brain Tumor Segmentation with Cascaded Deep Convolutional Neural Network", Springer LNCS, International MICCAI Brainlesion Workshop BrainLes 2019: Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries
6. Thakur S., Baheti B., Gajre S., Talbar S. (2019) Pose Estimation for Distracted Driver Detection Using Deep Convolutional Neural Networks. In: Arora C., Mitra K. (eds) Computer Vision Applications. WCVA 2018. Communications in Computer and Information Science, vol 1019. Springer, Singapore
7. Siddhesh Thakur, Bhakti Baheti, Suhas Gajre and Sanjay Talbar, "Pose Estimation for Distracted Driver Detection Using Deep Convolutional Neural Networks" ICVGIP Workshop on Computer Vision Applications, Springer Communication in Computer and Information Science, Vol.1019, pp.102-114, 2018
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