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**SANJEEVAN**

**ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA**

Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur.  
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○ Approved By AICTE, New Delhi ○ Recognized by Govt. of Maharashtra & DTE  
○ Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### STAFF PROFILE INFORMATION

	<b>Name of Staff:-</b>	Dr. Manjusha N. Chavan
	<b>Designation: -</b>	Assistant Professor
	<b>Qualification:-</b>	B.E.(Electronics), M.E. (Electronics), Ph.D.( Electrical and Electronics Engineering Sciences)
	<b>Area of Specialization:-</b>	Signal and image processing, Pattern recognition
	<b>Experience:</b>	15 Years
	<b>email id:-</b>	manjusha.chavan@seti.edu.in
	<b>Contact Number:-</b>	9420506555

### RESEARCH CITATIONS

Google Scholar Citations: **120**, H-Index: **4**, i-10 index: **4**

### PATENTS:

- Title-** Artificial Intelligence based urban sewage management system with real time monitoring and damage repairing (Indian Patent Published on 19/01/2024. Application No.-202321084969 A)
- Title-** Heavy Metal detecting pen device. (Indian design patent Published on 7/06/2024, Application no.-410875-001)

➤ **PAPER PUBLICATIONS:**

**PAPER PUBLICATIONS: CONFERENCE-NATIONAL / INTERNATIONAL , JOURNAL**

Sr. No	TITLE	JOURNAL / CONFERENCE	VOLUME	ISSN
1	Iris liveness Detection: A Review	Journal of Trend in Research and Development	3	2394-9333
2	Need Based Automatic Liquid Filling System With PH Indication	International Research Journal of Engineering and Technology (IRJET)	3	e-ISSN: 2395 -0056
3	Image Segmentation Technology in medical analysis : A Boon for detection of cancer	International Journal of Innovation in Engineering Research and Technology	--	2394-3696
4	Wavelet Shrinkage Techniques for Images	International Journal of Computer Applications	7	0975-8887
5	Wavelet Transform for removal of noise from speech signal	CIIT International journal of Digital Signal Processing	2	0974-9705
6	Studies on Implementation of wavelet for denoising Speech Signal	International Journal of Computer Applications	3	0975-8887
7	Wavelet transform for image noise reduction	CIIT International journal of Digital Image Processing	2	0974-9691
8	Implementation of SYMLET wavelets to removal of Gaussian additive noise from speech signal	Proceedings of the 10th International conference on Recent Researches in Communications, Automation, Signal	--	ISBN: 978-960-474-276-9

		Processing, Nanotechnology, Astronomy and Nuclear Physics		
9	A Review of Iris Liveness Detection Methods”	ICIASP-2013		
10	Challenges Inherent in Building an Intelligent Paradigm for Tumor Detection Using Machine Learning Algorithms	Advances in Machine Learning and Data Science. Advances in Intelligent Systems and Computing	705	
11	Scaled Conjugate Gradient Algorithm and SVM for Iris Liveness Detection.	International Conference on ISMAC in Computational Vision and Bio-Engineering 2018 (ISMAC-CVB). ISMAC 2018. Lecture Notes in Computational Vision and Biomechanics, vol 30. Springer, Cham.		
12	Low-Dimensional Spectral Feature Fusion Model for Iris Image Validation	8th International Conference on Soft computing for problem Solving (SocPros), VIT, Vellore, 17th -19th December 2018 . (Published In AISC Springer, Singapore)	1057	
13	Application of Haar wavelet in speech denoising	National Symposium on Instrumentation (NSI-33), December		

		8-10, 2008.		
14	Denoising of speech signal using Daubechies wavelet	National conference on pervasive computing (NCPC-2010), 9-10 April-2010, SIT, Pune		

➤ **Research IDs:**

1	<b>Google scholar ID</b>	BVfqJ_8AAAAJ
2	<b>Researcher ID</b>	
3	<b>ORCID ID</b>	<a href="https://orcid.org/0000-0001-9739-7574?lang=en">https://orcid.org/0000-0001-9739-7574?lang=en</a>

**Book Published: 01**

“Natural Language Processing for Beginners”, 1st Edition,

ISBN No: 978-93-6132-080-4, Scientific International Publishing House (SIPH)

**Book Chapters: 03**

S. No.	Title of Book	Year	Name of Publisher	ISBN
1	Challenges Inherent in Building an Intelligent Paradigm for Tumor Detection Using Machine Learning Algorithms.	2018	Advances in Machine Learning and Data Science. Advances in Intelligent Systems and Computing, vol 705. Springer, Singapore	<b>ISBN 978-981-10-8569-7.(e-book)</b>
2	Scaled Conjugate Gradient Algorithm and SVM for Iris Liveness Detection	2019	Lecture Notes in Computational Vision and Biomechanics, vol 30. Cham. Springer	

3	Low-Dimensional Spectral Feature Fusion Model for Iris Image Validation	2020	Soft Computing for Problem Solving. Advances in Intelligent Systems and Computing Book series, AISC, Vol 1057. Springer	
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➤ **Member of Professional Bodies:**

**ISTE LM76716**  
**IEAENG**

➤ **Achievements**

- 100% result of Mechatronics , B.E(Mechanical) (Year 2010-11)
- 100% result of Digital Signal Processing T E(E & TC)(Year 2012-13)
- 100% Result of Satellite Communication B.E (E & TC)(Year 2013-14,2014-15)
- 100 % Result of Image Processing B.E (2015-16)
- 
- Delivered expert lecture on "Data Structure" at NMCOE Peth in 2016.
- Was Invited as a Judge for Paper Presentation in Electronics Group , event at AMGOI, Vathar,2016

➤ **EXPERT TALKS DELIVERED**

"Data Structure" at NMCOE Peth , 2016.

➤ **OTHER HONOURARY WORK**

Event Judge at Paper Presentation in Electronics Group, AMGOI, Vathar, 2016

➤ **STTP/ Workshop/Webinar Organized:**

1. Coordinator of one week FDP on, "Artificial Intelligence and Robotics", 5<sup>th</sup> – 10<sup>th</sup> Dec. 2016, Organized by Department of Electronics and Telecommunication Engineering, ADCET, Ashta.
2. Co-coordinator of Student development program, "workshop on "Arduino Processor & Embedded C", 30<sup>th</sup> – 31<sup>st</sup> July 2016, Organized by Department of

Electronics and Telecommunication Engineering, ADCET, Ashta.

3. Coordinator of Webinar on “Introduction to Electrical Vehicles”, by Dr. Sreejith S. NIT, Silchar 4<sup>th</sup> July 2020, Organized by Department of Electronics and Telecommunication Engineering, ADCET, Ashta.

➤ **Details of Faculty Development Programs (Workshop/Conference/Training Program)**

S. No.	Title of Program	Organized by (Venue)	Year	Duration
1	Implementation of NEP 2020	Department of Computer Science and Engineering, Nutan College of Engineering and Research (NCER), Talegaon Dabhade	2024	16 <sup>th</sup> Jan to 20 <sup>th</sup> Jan 2024
2	Writing an effective Research article: Tips and Tricks	Department of Civil Engineering, KLS VEDIT, Haliyal, Karnataka.	2023	3 <sup>rd</sup> Oct 2023 to 7 <sup>th</sup> Oct 2023
3	Advances and Research opportunities in E & TC Engineering	Department of E & TC Engineering, SVERI's college of Engineering Pandharpur.	2020	10 <sup>th</sup> -14 <sup>th</sup> June
4	Python	Department of E & TC Engineering, SKN Sinhgad College of Engineering Pandharpur in association with spoken tutorial by IIT Bombay.	2020	18 <sup>th</sup> to 23 <sup>rd</sup> May
3	Effective proposal writing for research and Funding	Department of E & TC Engineering Sandip Institute of Technology & Research Centre, Nashik in association with IEEE Women in Engineering.	2020	13th-18th May
4	Signal, Image and Video Processing: A practical Approach (SIVPAPA-2020)	Department of E & TC Engineering, Government College of Engineering, Karad.	2020	23th-30th May
5	Matlab 2018a Tools and its Engineering Applications	ADCET, Ashta	2018	24th-28th December
6	Deep Learning and Image Processing	MIT, Pune	2017	11 <sup>th</sup> to 16 <sup>th</sup> December
7	Image Processing	E-Infochips, Ahemadabad, At ADCET,Ashta	2016	25th Dec 2015-5 Jan
8	Research methodology & Latex	ADCET, Ashta	2014	13th to 18th Oct

9	Image Processing and soft computing Algorithm Implementations in Interdisciplinary area	DKTE Ichalkaranji.	2014	17th -19th & 24th -25th Jan.
10	Advances in Wireless Communication	ADCET, Ashta	2013	24th to 28th June
11	Numerical Methods For Engineers With Matlab	ADCET, Ashta	2012	17 <sup>th</sup> to 21 <sup>st</sup> December
12	Research Methodology in Engineering & Applied Sciences	ADCET, Ashta	2011	25 <sup>th</sup> April to 29 <sup>th</sup> April
13	Signal Processing Applications with Matlab	ADCET, Ashta	2010	27 <sup>th</sup> December to 31 <sup>st</sup> December
14	Hands on experience of virtual Instrumentation applications in Engineering and Technology	NIT, Warangal sponsored by MHRD	2009	7 <sup>th</sup> -13 <sup>th</sup> December
15	Embedded Systems and Applications	Core technologies Kolhapur	2008	15 <sup>th</sup> June – 30 <sup>th</sup> June

**Place: Pnahala**