

	Name	Dr. Mrs. Mangal Vedant Patil		
	Designation	Assistant Professor		
	Department	Electronics and Communication Engineering		
	Qualification	M.E. PhD (Electronics)		
	Contact No.	020-24107390	Ph. Extension	272
	Email ID	mvpatil@bvucoep.edu.in		
	Experience	Teaching :	19-Years	Industry :

Area of Interest	Signal processing, Communication			
Publications	International Journals:	37	National Journals :	
	International Conferences:	02	National Conference:	02
Publication Details	<p>Academic Year 2020-21</p> <ol style="list-style-type: none"> Mangal Patil, Preeti Bamne , “A comparative study of different LSTM neural networks in predicting air pollutant concentrations” Indian Journal of Science and Technology, Vol: 13, Issue: 35, pp: 3664-3674, October 2020 Mangal Patil, Preeti Bamane, S. Hasarmani, “Efficient watermarking in Color Video Using DWT-DFT and SVD Technique”, Progress in Advanced Computing and Intelligent Engineering, Springer, vol.1198, PP. 978-981, Oct 2020. https://doi.org/10.1007/978-981-15-6584-7_8 Mangal Patil, Preeti Bamane, “Multiple Linear Regression using Tensor Flow Predicting Fuel Consumption” International Research Journal of Engineering and Technology (IRJET) Volume: 07, Issue: 06, June 2020. Mrs. M V Patil, Shaurya Srivastava, Parag Fadnis, Rishabh Sharma, “Arduino based Short Circuit Protection System using various sensors”, International Journal of Scientific Research in Engineering and Management, Volume: 04, Issue: 06 , June -2020 Mrs. M V Patil, Digvijay Singh, Diksha Singh, Lucy, “Microcontroller based open aqua-aero purifier”, International Journal of Scientific Research in Engineering and Management, Volume: 04, Issue: 06 , June -2020 <p>Academic Year 2019-20</p> <ol style="list-style-type: none"> M. V. Patil, Vishal, Anurag, Yashwant, “Music Identification based on fingerprinting” International Journal of Scientific research in Engg and Management” Vol.3, Issue 6, June 2019. Patil M V, Tanvi, J S Morbale,” Robotic Vehicle controlled by hand gesture using PIC” International Journal of Scientific research in Engg and Management” Vol.3, Issue 6, June 2019. 			

Academic Year 2018-19

8. Keshav Kumar, Kumari Ritu, Mrigangna Singh, Mangal V. Patil, "Wireless Display using GSM and Arduino", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Vol.3, Issue.5, June 2018,ISSN : 2456-3307.
9. Antra Priya, Ankit Gupta, Jitendra Kumar , M.V. Patil, "Delta-3D Printer based on Cortex M3 Processor", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Vol.3, Issue.5, June 2018, ISSN : 2456-3307.

Academic Year 2017-18

10. Mangal Patil, Vishakha Patil, "[Curvelet Based ECG Steganography for Protection of Data](#)" Springer [Lecture Notes in Computational Vision and Biomechanics](#) book series (LNCVB, Vol. 28), pp 238-248, DOI: https://doi.org/10.1007/978-3-319-71767-8_20 , P-ISBN: -978-3-319-71766-1, (Feb. 2018) (Springer)
11. Mangal Patil , J. S. Chitode, "[Robustness Improvement of Digital Audio Watermarking by optimizing Singular values for Copyright Protection](#)" WSEAS TRANSACTIONS on SYSTEMS and CONTROL, Vol. 12, PP.440-450,(Dec. 2017) (SCOPUS)
12. Maheshwari Kulmethe, M. V. Patil, "Techniques of Characteristics, Components of a Raga Identification System", Imperial Journal of Interdisciplinary Research (IJIR) ,Vol-3, Issue-9, 2017,ISSN: 2454-1362,Pp.953-958

Academic Year 2016-17

13. M. V. Patil, Kalpana Shete, J. S. Chitode, "Least Significant bit & discrete wavelet Transform algorithm realization for Image steganography employing FPGA", International Journal of Image, Graphics and signal processing, Vol.6, PP.48-56, June 2016, DOI:10.5815/ijigsp.2016.06.06. (IF-0.722) (web of science)
14. Mrs. M. V. Patil, Dr. J. S. Chitode , "[A Novel Digital Audio Watermarking Algorithm by Optimizing Singular Values](#)",. International Journal of Computer Science and Information Security, Vol.14, No.12, December 2016, pp.880-885.
15. Mrs. M. V. Patil , Aditya, "Solar based Cell phone signal strength amplifier on GSM 900 frequency band," International Journal of Scientific and Engineering Research, Vol. 8, issue 3, March 2017.
16. Mrs. M. V. Patil ,NitishOza, "Obstacle sensing walking stick for visually impaired: , International Research Journal of Engineering and Technology(IRJET), vol. 4, issue 4, Apr 2017.

17. Sheetal Shelke, Mrs. M V Patil, J.S. Chitode “Implementation of Audio Watermarking algorithm based on embedding strategy in high frequency sub-band with binary sequence using DWT-FFT”, International Journal of Advanced Research ,Vol.4(9), Sept. 2016
18. Mangal Patil, Janardan Chitode, “Performance Evaluation of Digital Audio Watermarking based on Discrete Wavelet Transform for Ownership Protection”, International Journal on Electrical Engineering and Informatics, Vol. 9, No. 1, March 2017.
19. Gaurav Singh Bisht ,Vivek Kumar Verma , Anish Kumar Singh, M. V. Patil , “A Study on Vehicle Accident Alert System”,International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering(IJAREEIE)ISSN (Online): 2278 – 8875, Vol. 6, Issue 4, April 2017 . Pp.2383-2389.

Academic Year 2015-16

20. Bharat Avasthi, Sabya, Ashish Kumar, Mrs. M V Patil, “Robotic Arm Wirelessly Controlled By Android Application”, International Journal of Engineering and Technical Research (IJETR) ISSN: 2321-0869, Volume-3, Issue-6,PP.193-196, June 2015.(IF.2.19)
21. Utkarsha Singh, Teesta Moitra, Neha Dubey, Mrs. M V Patil, “Automated fabric defect detection using Matlab”, International Journal of Advanced Technology in Engineering and Science , Volume No.03, Issue No. 06,PP.294-299, June 2015, ISSN (online): 2348 – 7550, IF-2.87
22. Sheetal Shelke, Mrs. M V Patil, J.S. Chitode, “DWT-DFT based Audio watermarking algorithm for copyright protection” International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-5, Issue-2, Dec.2015.(IF-3.84)
23. Shete Kalpana, Mrs. M V Patil, J.S. Morbale, “FPGA implementation of Image Stegnography using LSB and DWT” , International Journal of Computer Science & Network(IJCSN) ISSN: 2277-5420,Vol.4,Issue 6, PP. 847-853, Dec.2015.(IF.1.02)
24. Supriya Hasarmani, Mrs. M V Patil, P.R. Naregalkar, “Digital Video Watermarking using DWT-DFT Transforms and SVD Technique”, International Journal of Computer Science & Network(IJCSN) ISSN: 2277-5420,Vol.4,Issue 6, PP. 854-859, Dec.2015.(IF-1.02)
25. M. V. Patil, Dheeraj Patil, “ A Fast FPGA based Architecture Implementation for Reversible Image Watermarking”, International Journal of Engineering and Advanced Technology Vol.5, Issue 4, April 2016. PP. 228-232. (IF- 3.84)
26. M. V. Patil, Disha Kapoor, Rohit Pandey, Rishav Vaid, “ Electronics Dice using Dot matrix display” , International Journal of Engineering Sciences & Research Technology, Vol.5, May 2016. (IF- 3.785),PP. 315-321.

27. Sonam Singh, Mrs. M.V. Patil, “Multi Focus Image Fusion Based on Spatial Frequency and Contrast Based Analysis under Stationary Wavelet Transform Domain”, [International Journal of Scientific & Engineering Research](#), Vol.7, No. 5, May 2016,PP. 225-230.(IF- 3.8)

Academic Year 2014-15

28. Mrs. M V Patil , Prashant Chauhan, Prem Prakash , “Wireless Agriculture System Using Zigbee, International Journal of Electronics &Communication Technology, Vol. 5, Issue 2, April - June 2014, PP-233-236, ISSN: 2230-7109. IF-0.675
29. Mrs. M V Patil , Ashish , Ashwin Kumar, “Zigbee based voice recognition wireless home automation system”, Indian streams Research Journal, Vol. 4 Issue. 6, PP. , ISSN- -2230-7850. July 2014. DOI : 10.9780/22307850, (IF-4.1625)

Academic Year 2013-14

30. Mrs. M. V. Patil,. Dr. J. S. Chitode , “Improved Technique for Audio Watermarking Based on Discrete Wavelet Transform”, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-2, Issue-5, June 2013,pp.511-516.(1.097)
31. KomalShedge, Mrs. M V Patil, “ A New Facet in Robust Audio Watermarking in DWT-SVD Domain”, International Journal of Engineering Research & Technology (IJERT), volume 3,Issue 5,May 2014 (IF-1.76)
32. Jyoti Mishra, Mrs. M. V. Patil, “An Effective Audio Watermarking using DWT-SVD, International Journal of Computer Application ,PP. 6-11,ISSN- 0975 – 8887,May. 2013.(IF-0.791)
33. Komal Shedge, Mrs. M V Patil, ”Dual Transform Based Audio Watermarking”, International Journal of Scientific & Engineering Research (IJSER), volume 5, Issue 5, May 2014. ISSN: 2229-5518 (IF-3.8)

National Conference

34. Sahil Jain, Mudit Agarwal, M.V.Patil, “Biometric Voting machine”, NACICE-2013,Pune.
35. M V Patil, “A Review of image compression technique using DCT, Traditional and lifting Wavelet transform” NACICE 17-18 April 2013 BVDU COE, Pune

International Conference

36. Mrs. M V Patil, Komal Shedge, “Adaptive Audio Watermarking techniques: A literature Review”, Conference on Recent Trends in Engineering & Technology (ICRTET’2014), K. B. Jain College of Engineering, Chandwad. 978-93-5107-221-8, March 2014.

	<p>Academic Year 2012-13</p> <p>37. Mrs. Mangal V. Patil , Dr. J. S. Chitode, “ A Concise Review of Digital Audio Watermarking Techniques “, CIIT International Journal of Digital Signal Processing, Vol 4, No 5, May 2012, pp.205-211 ,ISSN: 0974 – 9594.IF-0.126)</p> <p>38. Mrs. Mangal V. Patil, Dr. J. S. Chitode, “Audio Watermarking: A way to Copyright Protection”, International Journal of Engineering & Research & Technology, Vol. 1 Issue 6, August – 2012, pp.1-5. ISSN: 2278-0181(1.76)</p> <p>39. Mrs. M. V Patil, Yatin Baluja, “Frequency domain based data hiding technique for audio” Vol. 2, Issue 5, May 2013 PP. 1564-1569, (IF-1.23)</p> <p>40. Mrs. M. V Patil, ”Audio and Speech Compression Using DCT and DWT Techniques”, International Journal of Innovative Research in Science, Engineering and Technology, pp. 1712-1719, May 2013, Vol. 2, Issue 5, ISSN: 2319-8753, (IF-6.209)</p> <p>International Conference</p> <p>41. Mrs. M V Patil , “ GSM based remote patient monitoring system”, ICEVD,2008 .</p>		
<p>Research Projects</p>	<p>Title of the Project: Dual Transform based Digital Audio Watermarking Technique Funded by : TEQIP-II- 2.83 Lakh BVUCOE - 17 Lakhs</p> <p>Research Grant of 19.83 Lakh received under TEQIP for the development of ‘ Speech and Sound Processing Laboratory’ in the department of Electronics and communication Engineering</p>		
<p>Professional Memberships</p>	<p>1. ISTE (Life membership)</p>		
<p>Workshop/ Seminar/ Conference attended</p>	<p>FDP/STTP attended</p>	<p>Dates</p>	<p>Place</p>
	<p>Technical Leadership Training Program</p>	<p>16 & 17th July 2019 & 30/08/ 2019.</p>	<p>BVDUCOE, Pune</p>
	<p>SWAYAM ARPIT Online Course Certification on ‘Skills For New Educational Architecture’</p>	<p>Sept 2019 to Jan 2020</p>	<p>Sant Gadge Baba Amravati University</p>
	<p>ATAL Online FDP on "Augmented Reality (AR)/ Virtual Reality (VR)"</p>	<p>16-06-2020 to 20-06-2020</p>	<p>National Institute of Technology Warangal.</p>
	<p>Online FDP on Future Nano electronic devices and circuits</p>	<p>06/07/2020 to 10/07/2020</p>	<p>MGIT, Hyderabad</p>

	STTP on “Terahertz Band: Next Frontier for Wireless Communication”	20- 25th July 2020	IFET college of Engineering, Villupuram.
	FDP on “AI and Data Science”	22 - 26 July 2020.	JSPM’s Rajarshi Shahu College of Engineering,Pune
	FDP on Embedded Systems and IoT (ESI-2020)"	04-08 Aug. 2020	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
	Two week Online FDP on ‘Implementation of Artificial Intelligence for Solving Digital Signal and Image Processing Problems’	16-11-2020 to 28-11-2020	ECE Dept., Vidya Jyothi Institute of Technology, Hyderabad
	(ATAL) FDP on "Internet of Things (IoT)"	30/11/2020 to 4/12/2020	Sairam Engineering College.
	ATAL Online FDP on Data Sciences	14/12/2020 to 18/12/2020	Amity Institute of Information Technology.
	ATAL Online FDP on ‘Artificial Intelligence’	1/1/2021 to 5/1/2021	Aditya Institute of Technology & Management
	NPTEL Special Lecture Series on “Innovation and Entrepreneurship in a Post-Covid World	22/6/2020 to 29/06/2020	Rajendra Mishra School of Engineering Entrepreneurship Indian Institute of Technology , Kharagpur
	FDP ON Artificial Intelligence and Machine Learning	15-17 May 2018	BVUCOE, Pune
	STTP on ‘Developing Interpersonal skills & effective communication	2/1/2017 - 7/1/2017	SPCOE, Mumbai.
	Workshop on ‘High Impact teaching skills	29/9/2015 – 30/9/2015	BVUCOE, Pune
	FDP on Internet of Things	28/11/2016 - 2/12/2016	DYPCOE, Akurdi.
Achievements	Cambridge University Teachers Training Certification		
Extra Activities	<ul style="list-style-type: none"> ○ Virtual Labs Nodal Coordinator (Institute level) ○ Speech and Sound Processing Lab Coordinator ○ Executive council member of Alumni Association 		

	<ul style="list-style-type: none">○ Institute's Innovation Council (IIC) Committee member○ Unit Test Coordinator○ Admission committee member○ Department NBA Coordinator (2006 to 2017)○ Faculty Development Program coordinator (Virtual Learning Environment (2016), Computer Networking-2017).
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