



**ARMY INSTITUTE OF TECHNOLOGY**  
Dighi Hills, Alandi Road, Pune 411 015  
**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING**  
**R&D Data Academic Year 2019-20**



• **Publications (Journal): Academic Year (June 2019 – May 2020)**

Sr. No	Name of Authors	Title of Paper	Name of Journal	National/ International	Issn No.	Vol/ Issue No.	Page No.	Date/ Year	Indexing Scopus/SCI/SCIE/WOS/UGC Approved/ Other
1	Dr. B.P. Patil	A Hybrid Approach Combining Statistical Image Information and Image Informatics for 3D Reconstruction	Advanced Science, Engineering and Medicine	International	ISSN: 2164-6627 (print); EISSN: 2164-6635 (online)	Vol. 11, No.9	888–899	Sept 2019	Scopus
2	Dr. B.P. Patil	Performance Analysis of 8 X 8 MU-MIMO in Uplink of LTE-A	International Journal on Emerging Technologies	International	ISSN (Print) : 0975-8364, (Online): 2249-3255	Vol. 10(2)	44-49	Jul 2019	Scopus
3	Dr. B.P. Patil	Wireless Power Transfer through Inductive Coupling for AIMDs	International Journal of Innovative Technology and Exploring Engineering	International	ISSN:2278-3075(Online)	Vol. 8, Issue 11	138-141	Sept 2019	Scopus
4	Dr. B.P. Patil	GWO Based Optimal Channel Estimation Technique for Large Scale MIMO in LTE Network	International Journal of Innovative Technology and Exploring Engineering	International	ISSN:2278-3075 (Online)	Vol. 8 Issue 12	5306-5314	Oct 2019	Scopus
5	Mr. Deepak Kr Yadav, Mr. Bharat Prasad Dixit, Mr. Pankaj Yadav, Dr. Gajanan R Patil, Mr. Jayesh Jain	Design and Implementation of Robust Navigation System Platform for Autonomous Mobile Robot	International Journal of Engineering and Advanced Technology (IJEAT)	International	2249 – 8958	9/2	1346-1349	Dec 2019	Scopus Indexed journal/UGC approved
6	Mr. Vishnu Kokate, Mr. RM Holmukhe, Dr. PB Karandikar, Mr. Saurabh, Ms. Nidhi Yadav	Applications of Ultra Capacitor In Indian Vehicles	IJSTR	International	2277-8616	Vol 9 Issue 4	914-917	April 2020	Scopus Indexed
7	Ms. Samata Parulekar, Dr. P B Karandikar, Mr. R M Holmukhe,	Capacitors Beyond Fundamentals	Electrical India	International	0972-3277	Vol 59 issue 10	52-57	Oct 2019	Industrial magazine



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8	Mr. Vishnu Kokate, Mr. RM Holmukhe, Dr. PB Karandikar, Mr. DS Bankar, Ms. P. Apraj	Optimization of Battery – Ultra capacitor For Electrically Operated Vehicle For Urban Driving Cycle In India	International Journal of Scientific & Technology Research	International	ISSN 2277-8616	VOLU ME 9, ISSUE 03	7270-7274	MAR CH 2020	Scopus
9	Dr. Renuka Bhandari, Ms. Ananya Tiwari, Mr. Anshu Banerjee	Secure Radio Frequency Transmission for Paperless Voting System	International Journal of Innovative Technology and Exploring Engineering	International	2278-3075	Vol 9, Issue no. 7	842-846	May 2020	Scopus
10	Dr. Renuka Bhandari Ms. Prerna Singh Mr. Rishab Tiwari Mr. Sourav Rana	Design & Implementation of Black Box for Security and Monitoring of Automobiles	International Journal of Emerging Technologies	International	Issn 0975-8364	Vol 11 Issue 2	825-828	March 2020	Scopus
11	Ms. Ashwini Patil Ms. Swati Jha Ms. Uma Kumari Dr. Surekha KS	Smart Municipal Solid Waste Management	International Journal of Research-Granthaalayah	International	2350-0530 (O)	Vol 8, issue4	127-132	April 2020	Others
12	Ms. Shivani Bhandari Ms. Pooja Gangola Ms. Shivani Verma Dr. Surekha K S	IoT Based Food Monitoring System In Warehouses	Int Research Journal of Engineering and Technology	International	2395-0072	Vol 7, Issue 4	5957-5960	April 2020	Others
13	Ms. Shriya Nagrath Dr. Surekha KS Ms. Sadhika Ms. Preeti Kumari	IoT based Animal Monitoring System	Test Engineering & Management	International	0193-4120	Vol 83, issue 2	2515-2516 2	March - April 2020	Scopus
14	Mrs. R. Suryawanshi Dr. B. P. Patil Dr. P. Kavipriya	Performance Analysis of 8 X 8 MU-MIMO in Uplink of LTE-A	International Journal on Emerging Technologies	International	0975-8364	Vol. 10, Iss 2,	44-49	July 2019	Scopus
15	Ms. Rajashree Suryawanshi Dr. B. P. Patil Dr. P. Kavipriya	GWO Based Optimal Channel Estimation Technique For Large Scale MIMO In LTE Network	International Journal of Innovative Technology and Exploring Engineering	International	2278-3075	Vol.8, Issue 12	5306-5314	October 2019	Scopus



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16	Dr. S. D. Oza	GPU Accelerated bilateral filter for denoising knee MR Image	International Journal of Scientific Research in Computer Science & Engg.	International	ISSN: 2212-4047	vol. 8 issue 1,	01-05	Feb 2020	Scopus
17	Mrs. Sushma Patil	A Fast Optimized Architecture to Perform Multi Bit Permutation Operation	Helix The Scientific Explorer	International	ISSN: 2277-3495	Vol-9(5)	5269-5274	31st October 2019	Web of Science (ESCI)
18	Mrs. Sushma Patil Mr. Avinash Patil	A Novel Architecture for Multi-Bit Shift and Rotate Operation	Journal of Mechanism of Continua and Mathematical Science	International	ISSN 2454-7190	Issue-9	22-32	May 2020	Others
19	Mrs. Sushma Patil Mr. Avinash Patil	Square Operation Implementation on Reconfigurable Hardware Logic to Attain High Speed, Area Optimization and Low Power Consumption	Journal of Mechanism of Continua and Mathematical Science	International	ISSN 2454-7190	Issue-9	33-42	May 2020	Others
20	Mr. Avinash Patil	Novel Method to Compute Cube Confirming Low Device Utilization on FPGA	Helix The Scientific Explorer	International	ISSN: 2277-3495	Vol-9(5)	5275-5281	Oct 2019	Others
21	Dr. Harjeet Kaur	Smart Farming Using Automated Bot	International Journal of Electrical & Data Communication	International	ISSN2320-2084	Vol 7 Iss 6	76-79	June 2019	Others
22	Dr. Harjeet Kaur Ms. Sharda Patil	A Wavelet Based Hybrid Threshold Transform Method for Speech Intelligibility and quality in noisy Speech Patterns of English Language	International Journal of Wireless Personal Communications	International	ISSN 0929-6212	Vol 112/2	1113-1135	Jan 2020	Web of Science



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• **Publications (Conference): Academic Year (June 2019 – May 2020)**

Sr. No.	Name of Authors	Title of Paper	Name of Conference	Local Level/State Level/National/International	ISBN	Page No.	Date/Year of Conference	Indexing If Any
1	Dr. B.P Patil	Automatic Detection of Microanurysms in Retinal Fundus Images using Modified High Boost Filtering, Line Detectors and OC-SVM	IEEE International Conference On Industry 4.0 Technology 2020 (I4Tech2020)	International		148-153	13th to 15th Feb 2020	
2	Dr. P. B. Karandikar	Electrode Electrolyte Compatibility for Superior Performance of Super-Capacitor	International Conf on Power Electronics Applications & Technology in Present Energy Scenario	International	19380710	1-5	29-31 Aug 2019	Scopus
		Comparative Study of Blinders for Super-Capacitor	Int Conf IEEE	International	978-1-7218-1924	1-4	Dec 2019	Scopus
3	Ms. Dhanshri Patil	Road Extraction Techniques from remote Sensing Images	International Conference on Sentimental Analysis & Deep Learning	International			2-3 April 2020	



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• **Book Article/ Chapter published: Academic Year (June 2019 – May 2020)**

SR. NO.	NAME AUTHORS	TITLE OF CHAPTER/ARTICLE	NAME OF BOOK	ISBN	NATIONAL /INTERNATIONAL	VOL	PAGE NO.	PUBLISHER DETAILS	DATE/YEAR
1	Dr. P. B. Karandikar Ms. Seema Mathew Ms. N. Kulkarni	Modeling and Optimization of a Jackfruit Seed-Based Super capacitor Electrode Using Machine Learning	Chemical Engineering Technology	1521-4125	International	43	1765-1773	Wiley	Sept 2020