



• **Publications (Journal): Academic Year (1 June 2020 to 30 June 2021)**

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.	Satyashil D. Nagarale(Ext.), B. P. Patil	A Review on AI based predictive Battery Management System for E-Mobility	Test Engineering and Management	International	0193-4120	Vol. 83	1505 3 – 1506 4	May- Jun 2020	Scopus
2.	Sarika Patil(Ext.), B. P. Patil	Automated macula proximity diagnosis for early finding of diabetic macular edema	Research On Biomedical Engineering	International	2446-4740 (Online) 2446-4732 (Print)	Vol. 36 Issue 3	249– 265	Sept 2020	Scopus
3.	Sarika Patil(Ext.), B. P. Patil	Retinal fundus image enhancement using adaptive CLAHE methods	Journal of Seybold Report	International	1533-9211	Vol.15 , Issue 9	3476 - 3484	Sept 2020	Scopus
4.	Prasad Kalane (Ext.), Sarika Patil (Ext.), B. P. Patil Davinder Pal Sharma(Ext.).	Automatic detection of COVID-19 disease using U-Net architecture based fully convolutional network	Biomedical Signal Processing and Control	International	I1746-8094	Vol. 61	1025 18 (1-9)	May 2021	SCIE
5.	Dr Surekha K S, Dr. B.P.Patil	Power line interference removal from electrocardiogram signal using multi-order adaptive LMS filtering	International Journal of Biomedical Engineering and Technology	International	1752-6426(Online) 1752-6418 (Print)	Vol 35, Issue2	PP 135- 151	Feb 2021	SCOPUS and ESCI
6.	Laxman S Godse(Ext.), Vispi N Karkaria (Ext.), Mayank J Bhalerao (Ext.), Dr P B Karandikar, Neelima R Kulkarni (Ext.).	Process-based modeling of nylon separator super capacitor	Energy Storage Wiley	International	DOI: https://doi.org/10.1002/est2.204			18 Sept 2020	
7.	Laxman S. Godse, (Ext.) M.J. Bhalerao (Ext.), Faiz M. Khwaja (Ext.), Neelima R. Kulkarni (Ext.), Dr P B Karandikar	Development of of Statistical Model for Selection of Electrode Parameter in Manufacturing of Ultra capacitor	Chemical Eng Technology 2020	International	DOI: 10.1002/ceat.201900616	43 No 9	1765- 1773	26 th May 2020	



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STAFF ACTIVITY (A.Y. 2020-21)



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8.	Anupama Singh (Ext.), Dr P B Karandikar, N.R. Kulkarni (Ext.)	Mitigation of sulfation in lead acid battery towards life time extension using ultra capacitor in hybrid electric vehicle	Journal of Energy Storage, 2020,	International	https://doi.org/10.1016/j.est.2020.102219	Vol 34	1022 19	Feb 2021	SCIE
9.	Dr P B Karandikar, Seema Mathew (Ext.) Neelima R. Kulkarni (Ext.).	Modeling and Optimization of a Jackfruit Seed-Based Supercapacitor Electrode Using Machine Learning	Chemical Engineering & Technology 2020	International	DOI: 10.1002/ceat.201900616	43 (9)	1765- 1773	27 May 2020	SCIE
10.	Laxman S Godse(Ext.), Vispi N Karkaria (Ext.), Mayank J Bhalerao (Ext.), Dr P B Karandikar, Neelima R Kulkarni (Ext.).	Process based statistical modeling for ball mill machine to improve performance of nylon ultracapacitor	Journal of The Institution of Engineers (India)	International	https://doi.org/10.1007/s40031-21-00570-0			2 nd Apr 2021	Scopus
11.	Anupama Singh (Ext), Dr P B Karandikar, Neelima R Kulkarni (Ext.).	Life Improvement of Lead Acid Battery using dc-dc Convertor for HEV	Annual Technical Volume of Electrical Engineering Division Board	National	-	Vol 5	79-83	2020	-
12.	Jayavant Suryavanshi (Ext.), Alok Deep (Ext.), R.S.Desai (Ext.), Dr. P.B.Karandikar, R.M. Holmukhe	Study Of Parametric Mismatch Of Supercapacitor Materials	Turkish Journal of Computer and Mathematics Education	International	-	Vol.12 No.12 (2021)	1875- 1882	online: 23 May 2021	
13.	Dr. S.D. Oza, K.R. Joshi(Ext.).	GPU based Gaussian Bilateral Filter for Noisy MR Image	International Journal of Scientific Research in Computer Science and Engineering	International UGC	E-ISSN: 2320-7639 DOI: https://doi.org/10.26438/ijsrcs/v8i3.3944	Vol.8, Issue. 3	pp.39 -44		



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14.	Prerna Singh, Rishabh Tiwari, Rana Sourav. Dr. Renuka Bhandari	Design and Implementation of Black Box for Security and Monitoring of Automobile	International Journal on Emerging technologies	International	0975-8364	11(2)	825-828		
15.	Mr. Avinash Patil, S.C.Patil(Ext), D.S.Bormane (Ext), Dr. Sushma Wadar	Square Operation Implementation On Reconfigurable Hardware Logic To Attain High Speed , Area Optimization And Low Power Consumption.	Journal Of Mechanics of Continua And Mathematical Sciences.	International	0973-8975(Print) 2454-7190 (Online) https://doi.org/10.26782/jmcm.s.spl.9/2020.05.00004	9	33-42	May 2020	
16.	Dr. Sushma Wadar, D.S.Bormane (Ext), S.C.Patil (Ext), Mr. Avinash Patil.	A Novel Architecture for Multi-BIT Shift and Rotate Operation.	Journal Of Mechanics of Continua And Mathematical Sciences.	International	0973-8975(Print) 2454-7190 (Online) https://doi.org/10.26782/jmcm.s.spl.9/2020.05.00004	9	22-32	May 2020	
17.	D.S.Bormane (Ext), Dr. Sushma Wadar, Mr. Avinash Patil. S.C.Patil (Ext).	Acceleration Techniques using Reconfigurable Hardware for Implementation of Floating Point Multiplier.	Helix	International	https://doi.org/10.29042/2020-10-05-08-14 .	10(5)	08-14	Oct 2020	
18.	Ms. Preeti Warrior, Pritesh Shah (Ext).	Fractional Order Control of Power Electronic Converters in Industrial Drives and Renewable Energy Systems: A Review	IEEE	International	2169-3536 DOI: 10.1109/ACCESS.2021.3073033	Vol 9	5898 2 - 5900 9	13 April 2021	Scopus and SCIE
19.	Dr. Rajashree Suryavanshi, P. Kavyapriya (Ext), Dr. B.P. Patil	A Novel Modulation Scheme of 8x8 MIMO in Industry 4.0	Journal of Cases on Information Technology	International	1548-7717	Vol.23 Issue 3	pp. 1- 10	April 2021	WoS (ESCI)



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20.	Ms. Shilpa Pawar, Ms. Sharayu Lokhande.	Analysis of type of CVD by comparing the threshold value of heart rate using IOT.	International journal of Electronics Communication & Instrumentation Engg. Research	International	2249-648X	Vol 11, Issue 1	1-6	31 st May 2021	

Note : SCI – Scimago Citation Index (Refer Web link - <https://www.scimagojr.com>)
JCR – Joint Citation Report (Search on google for JCR report for year of publication)



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• **Publications (Conference): Academic Year (1 June 2020 to 30 June 2021)**

Sr. No.	Name of Authors	Title of Paper	Name of Conference	Local Level/State Level/National/International	ISBN	Page No.	Date/Year of Conference	Presented (Y/N)	Indexing if Any
1	Dr. G.R.Patil, Akhilesh Singh, Dr. Renuka Bhandari, Ranvijay Singh, Pranay Agrawal	Implementation of OFDM System and Analysis of BER Using Labview	International Conference on Recent Emerging trends in Science, Engineering & Advanced Research in Communication & Healthcare-2021 (ICRESEARCH-2021)	International	978-93-5473-898-2		4 th - 5 th June 2021	Y	
2	Arjun Dogra, Dr. Surekha K.S.	IOT Based Smart Warehouse Inventory Management System.	3 rd International Conference on Recent Trends In Engineering & Technology at VIIT	International			28 th Nov 2020	Y	
3	Ms. Shilpa Pawar Mr. Sudhir Papulal Dhanure (Ext.).	Extraction Endocardium and Epicardium of Left Ventricle using Internal and External Energy Terms of Signed Distance Function in Cardiac MRI	ICCP-2020 (SSRN)	International			2020	Y	
4	Ms. Shilpa Pawar, Deepak Kumar Abhishek Kushwaha, Nawab Alam	Wi-Fi Cloud Server based User Operated Billing System in Mall	ICCES IEEE xplore	International	ISBN 978-1-7281-5371-1	1351-1355	2020	Y	
5	Ms. Shilpa Pawar, Shipra, Priyanka Singha, Divya Singh.	Deep learning watershed algorithm to calculate cardiac stroke volume	International Conference on innovation & research	International			17 th & 18 th June 2021	Y	
6	Ms. Snehal Marathe, Dr. B.P.Patil.	Mechanism for Improving the Productivity of the existing Photovoltaic Panels.	International Conference on Computational Performance Evaluation (ComPE)	International	978-1-7281-6644-5		2 nd -4 th July 2020	Y	
		Performance of solar panel in the presence & absence of dust.	CONIT 2021	International	978-1-7281-8581-1		25 th -27 th June 2021		



• **Book Article/ Chapter published: Academic Year (1 June 2020 to 30 June 2021)**

Sr. No.	Name of Authors	Title of Chapter/Article	Name of book	ISBN	National /International	Vol	Page no.	Publisher Details	Date /Year
1	Ms. Dhanashree Patil Dr. Sangita Jadhav	Food Extraction Techniques From Remote Sensing Image	Innovative Data Communication & Application	978-981-15-9650-6	International	59	663-677	Springer	3 rd Feb 2021

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Sr. No.	Name of Authors	Name of Book	ISBN	Local /National /International	Publisher Details	Edition	Date/Year
1	Dr. G.R. Patil	Data Structures	978-93-90225-91-0	Local	Nirali Prakashan	First	Aug 2020
		Digital Communication for final year in DBAT University	978-93-90506-06-4	Local	Nirali Prakashan	First	Oct 2020
		Principles of Communication System	978-93-90596-25-6	National	Nirali Prakashan	First	Feb 2021