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Designation	**Associate Professor**				
Department	**Electronics & Communication Engineering**				
Qualification	**PhD (IIT Kharagpur)**				
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Experience	**Teaching :**	15-Years	**Industry :**	3 Years	

Area of Interest	**Quantum Computing, Machine Intelligence, Multimodal Image/Signal Analysis, Pattern Recognition**			
Publications	**International Journal (s):**	10	**National Journals (s) :**	00
	International Conference (s):	06	**National Conference:**	00
	Patents: 00			

Publication Details

1. D M Dhane, P V Mulmule, R D Kanphade, "Artificial Intelligence Assisted Cervical Dysplasia Detection Using Papanicolaou Smear Images", *The Visual Computers*, (Under Review).
2. D M Dhane, V Krishna, A Achar, C Bar, K Sanyal, C Chakraborty, "Spectral Clustering for Unsupervised Segmentation of Lower Extremity Wound Beds Using Optical Images", *Journal of Medical Systems 40 (9), 2016.*
3. D M Dhane, M Maity, T Mungle, A Achar, C Bar, M Kolekar, C Chakraborty, "Fuzzy spectral clustering for automated delineation of chronic wound region using digital images", *Computer in Biology and medicine, Elsevier.*
4. D M Dhane, M, Kolekar Mahesh H, Patil Priti N, "Adaptive Image Enhancement and Accelerated Key Frame Selection for Echocardiogram Images",*Journal of Medical Imaging and Health Informatics, Springer Volume 2, Number 2, June 2012, pp. 195-199(5).*
5. Rashmi Mukherjee, D M Dhane, Dev Kumar Das, Arun Achar, Analava Mitra, and Chandan Chakraborty, "Automated tissue classification framework for reproducible chronic wound assessment", *BioMed Research International, Volume 14, pp. 9, 2014.*
6. Yadav M K, Dhane D M, Mukherjee Gargi, Chakraborty Chandan, "Segmentation of Chronic Wound Areas by Clustering Techniques Using Selected Color Space", *Journal of Medical Imaging and Health Informatics, Volume 3, Number 1, March 2013, pp. 22-29(8).*
7. M Maity, D K Das, D M Dhane, C Chakraborty, A Maiti, "Fusion of Entropy-based Thresholding and Active Contour Model for Detection of Exudate and Optic Disk in Colour Fundus Image", *Journal of Medical and Biological Engineering.*
8. Dhiraj Dhane, Maity, Maitreya, Tushar Mungle, Asok Kumar Maiti, and Chandan Chakraborty. "An Ensemble Rule Learning Approach for Automated Morphological Classification of Erythrocytes." *Journal of medical systems 41, no. 4 (2017): 56.*
9. Maity, Maitreya, Dhiraj Dhane, Tushar Mungle, A. K. Maiti, and Chandan

	Chakraborty. "Web-Enabled Distributed Health-Care Framework for Automated Malaria Parasite Classification: an E-Health Approach." *Journal of medical systems 41, no. 12 (2017): 192.* 10. Dhiraj M. Dhane, Narote, Sandipann P., Pradnya N. Bhujbal, Abbhilasha S. Narote, "A review of recent advances in lane detection and departure warning system." *Pattern Recognition* 73 (2018): 216-234. 11. Dhiraj Dhane, Maity, Maitreya, Chittaranjan Bar, Chandan Chakraborty, and Jyotirmoy Chatterjee. "Selection of Colour Correction Algorithms for Calibrating Optical Chronic Ulcer Images." In Advanced Computational and Communication Paradigms, pp. 561-570. Springer, Singapore, 2018. 12. Dhiraj Dhane, Maity, Maitreya, Chittaranjan Bar, Chandan Chakraborty, and Jyotirmoy Chatterjee. "Assessment of Segmentation Techniques for Chronic Wound Surface Area Detection." In Advanced Computational and Communication Paradigms, pp. 707-716. Springer, Singapore, 2018. 13. Dhiraj Dhane, Maity, Maitreya, Chittaranjan Bar, Chandan Chakraborty, and Jyotirmoy Chatterjee. "Pixel-Based Supervised Tissue Classification of Chronic Wound Images with Deep Autoencoder." In Advanced Computational and Communication Paradigms, pp. 727-735. Springer, Singapore, 2018. 14. Maitreya Maity, Dhiraj Manohar Dhane, Tushar Mungle, Rupak Chakraborty, Vasant Deokamble, Chandan Chakraborty, A Secure One-Time Password Authentication Scheme Using Image Texture Features, *SSCC'16, 625, pp.283–294, CCIS, Springer Nature Singapore (2016)* 15. D M Dhane, M Maity, A Achar, C Bar, C Chakraborty, "Selection of Optimal Denoising Filter Using Quality Assessment for Potentially Lethal Optical Wound Images", *Elsevier Procedia (2015)* 16. Dhiraj M. Dhane and Chetan Deokar, "Key Frame Abstraction, Extraction, and Browsing Of Echocardiogram Videos", *In Proceedings of IEEE Conference on Industrial Electronics, Control & Robotics (IECR), pp.220-224, Rourkela, India (2010)*
Patent Published	1. Granted International Patent on "I-Drone: Intelligent Drone to Detect the Human and Provide Help". Patent No: 2020102304, Granted on 14/10/2020, Filed and Registered on 16/09/2020. 2. Registered Indian Patent on "IAD: Intelligent Alcohol level detection and notification system". Patent No: 202021002674, Filed and Registered on 21/01/2020. 3. Registered Indian Patent on "Intelligent City". Patent No: 202041002527, Filed and Registered on 21/01/2020.
Professional Memberships	IEEE Senior Member, IEEE Engineering in Medicine and Biology Society (EMBS)
Workshop/ Short-Term Course Organized	**1.** Savitribai Phule Pune University Funded Two-Day National Workshop on "Machine Learning for Data Analytics". (7-8 Feb , 2020) (3 Lakhs Fund Received)
FDP Organised/Resource Person	**1.** Resource person for AICTE-ISTE sponsored Short Faculty Term Training Programme on "Digital Skills for Professionals" 3-8 Dec 2018 at Govt. college of Engineering, Chandrapur, Maharashtra.

Editior/Reviewer Assignments	**Journal Guest Editor for Special Issue** - Guest Editor (Health Informatics Journal-Inderscience) **Journal Reviewer** - Computers in Biology and Medicine (Elsevier). - Patter recognition letters (Elsevier) - IEEE Transactions on Intelligent Transport Systems - IEEE Access - Journal of Experimental & Theoretical Artificial Intelligence (T & F). - Journal of Ambient Intelligence and Humanized Computing (Elsevier). - Multimedia Tools and Applications (Elsevier) - Journal of mechanics in medicine and biology (World Scientific). - Journal of medical imaging and health informatics (World Scientific) **Conference Reviewer** - International Conference on Signal, Image and Video Processing (ICSIVP), Patna, 2012 - IEEE TechSym, IIT Kharagpur, 2014, 2015, 2016 - IEEE- INDICON, Singapore – 2016 - ICACCI, Kochi, Jaipur, 2016. - IEEE Discover 2020, 2021 - IEEE I2CT 2018, 2020, 2021
Achievement	2016 Research Associate, ICMR Delhi. 2009 Senior Research Fellow at Defence Institute of Advance Technology, Girinagar, Pune, India. 2009 Qualified GATE - 2009 with 97.32 percentile score in Electronics and Communication discipline. 2008 Best teacher award at IOIT 2005 Second prize winner of national level paper presentation competition held at Rajarambapu Institute of Technology (RIT), Sakharale, Maharashtra.
Grant Fetched	**1.** 3 Lakhs Fund Received for Two-Day National Workshop on "Machine Learning for Data Analytics". (7-8 Feb, 2020). **2.** 1 lakh fund received from AICTE SPICES.