

## BIO-DATA



**Name:** Varsha Ramchandra Ratnaparkhe

**Designation:** Associate Professor

**Experience:** 23 Years

**Educational Qualifications:** Ph.D.

**Ph.D. topic:** Biomedical Image Analysis

**Recognized Ph.D. guide at:** Dr.B.A.M. University, Aurangabad

**Research Areas:** Signal and Image Processing

**Research Project Completed:**Project for DRDO Pune

**Member of Professional Bodies:** ISTE LM

**Reviewer** of following Conferences:

1. International Conference on Industrial Instrumentation & Control 2015
2. International Conference on Computing, Analytics and Security Trends 2016

### **Publications:**

International Journal Papers:

1. V.R.Ratnaparkhe, R.R.Manthalkar, Y.V.Joshi, "Texture Classification of CT Images: A Comparative Study of Signal Processing Methods", *DIGITECH: An International Journal of Computer Science & Applications 2012*, International ISSN: 2229-4597, 2012. Vol. 3, No. 5 (2012) 17-30 DOI: 10.1145
2. Mandar Kale, V.R.Ratnaparkhe, A.S. Bhalchandra "Sensors for landmine detection & Techniques: A Review", *International Journal of Engineering Research and Technology Vol 2 issue 1 Jan 2013*, ISSN 2278-0181
3. Vinit Kharkar, V.R.Ratnaparkhe, "Haemoglobin Estimation methods: A Review of Clinical, Sensor and Image Processing Methods", *International Journal of Engineering Research and Technology Vol 2 issue 1 Jan 2013*, ISSN 2278 0181, 02.
4. M.R.Joshi, V.R.Ratnaparkhe, "Natural Disaster Alert System using GSM network", *International Journal of Engineering Research and Technology 2013*, International, ISSN: 2278-0181, 2013.
5. K.M. Khatri, V.R.Ratnaparkhe, S.S. Agrawal, A.S. Bhalchandra, "Image Processing Approach for Malarial Parasite Identification", *Journal International Journal of Computer Applications*.
6. M.P.Patil, V.R.Ratnaparkhe, "Object Counting using Image Processing: Hardware Approach" *International Organization of Scientific Research Journal (IOSR)*, Vol. 4, Issue 2, March 2014, 10.9790/4200-04214953.
7. Soni Reddi, V.R.Ratnaparkhe, A.S. Bhalchandra, "Adaptive Digital Beam Forming using LMS Algorithm", *International Organization of Scientific Research Journal (IOSR) March 2014*.

8. Archana Ekbote, V.R. Ratnaparkhe, "Genetic Syndrome Identification using 2D Transform Approaches, a Comparative Study", *Graphics, Vision and Image Processing Journal*, ISSN 1687-398X, Volume 18, Issue 1, ICGST LLC, Delaware, USA, June 2018
9. Archana Ekbote, V.R. Ratnaparkhe, "Genetic Syndrome Detection using Radon Transform & Bit Planes", *International Journal of Computer Engineering & Technology (IJCET)*, Volu.9, Issue 6, pp.181-188

### **International Conference:**

1. Prajkta Sadgir, P.A. Sadgir, V.R. Ratnaparkhe, "Determination of residual chlorine in potable water with application of digital image processing technique", *International Congress of Environmental Research (ICER13)*, 19.11.13 to 20.11.13
2. Manesh Pawar, Varsha Ratnaparkhe, "Electronic Protection for Exam Paper Leakage", *International Conference on Modelling and Simulation in Engineering & Technology*, on 15-16 Feb-2014 at Godavari College of Engineering, Jalgaon.
3. P.P. Sadgir, V.R. Ratnaparkhe, A.S. Bhalchandra, "GPR Data Processing for Landmine Detection: A Review", *IEEE's International Confernces for Convergence of Technology*, Pune 6-8 April 2014.
4. P. P. Sadgir, V. R. Ratnaparkhe, A. S. Bhalchandra, "GPR Data Processing for Landmines Detection" in *A Review- IEEE International Conference on Convergence of Technology - 2014*, 978-1-4799-3759-2/14/\$31.00©2014 IEEE, Feb 2014.
5. Ram D. Sarje, V. R. Ratnaparkhe, "Script Identification: An Image Processing Approach", *International Conference Multicon*, 29-30 April 2015 Muthayammal Engineering College Rasipuram, Tamilnadu.
6. Sachin Chothe, V.R. Ratnaparkhe, "Plant Identification Using Leaf Images", *International Conference Multicon*, 29-30 April 2015 Muthayammal Engineering College Rasipuram, Tamilnadu.
7. Chandra Kesh Dubey, V.R. Ratnaparkhe, "Electrochemical Synthesis of Polyaniline / TetraphenylPorphyrin Composite", *International Conference on Functional Materials and Microwaves*, 28-30, 2015 DR.B.A.M.U. Aurangabad.
8. M.P. Patil, R. Ratnaparkhe, S.N. Kakarwal, "Adaptive Thresholding for Image Enhancement : Hardware Approach", *International Conference on Nascent Technologies in the Engineering fields of Mechanical, Electrical, Electronics & Telecomm, Computer and Information Technology ICNTE - 2015 (January 09-10, 2015)*.
9. Vaibhav V Kamble, Ratnadeep R Deshmukh, Anil R Karwankar, Varsha R Ratnaparkhe, Suresh A Annadate, "Emotion Recognition for Instantaneous Marathi Spoken Words", *3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014/2015/1/1 Springer International Publishing*.
10. Chandra Kesh Dubey, V.R. Ratnaparkhe, "Single Walled Carbon Nanotube Polyaniline/Poly porphyrin Composite for Gas sensing- A mini review", *Third International Conference on Devices Circuits and Systems 2016, Bengaluru*
11. Ashish Bokade, V.R. Ratnaparkhe, "Video Surveillance Robot Control Using Smart Phone and Raspberry Pi", *International Conference on Communication and Signal Processing-2016*, Melmaruvathur
12. Monica Jige, V.R. Ratnaparkhe, "Population Estimation Of Whitefly For Cotton Plant Using Image Processing Approach", *Second IEEE International Conference on Recent*

*Trends in Electronics, Information & Communication Technology, Sri Venkateshwara College of Engineering, Bengaluru, 2017*

13. Monica Nagawade, "Musical Instrument Identification using MFCC",
14. Jayant Muley, V.R.Ratnaparkhe, "Segmentation of HEp-2 cells Centromere pattern" *Second IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology, Sri Venkateshwara College of Engineering, Bengaluru, 2017*
15. Suhas Dhoke, V.R.Ratnaparkhe, "Estimation of Hemoglobin using AI technique", *Intelligent Systems and Information Management (ICISIM 2017)*
16. Sanchita Mendhe, V.R.Ratnaparkhe, "Fraudulence Detection Using Image Processing Approach", *International Conference on Intelligent Computing and Control Systems (ICICCS 2018) 14-15 June 2018*
17. Heera Begum, V.R.Ratnaparkhe, "Classifier Tools : A Comparative Study", *International Conference on Intelligent Computing and Control Systems (ICICCS 2018) 14-15 June 2018*
18. Supriya Pandarge, V.R.Ratnaparkhe, "Image Processing based Classification of Red Blood Cells", *International Conference on Intelligent Computing & control Systems 2019, Vaigai College of Engineering, IEEE Conference*
19. Vishal Hadoltikar, V.R.Ratnaparkhe, "Optimization of MFCC parameters for Mobile Phone Recognition from Audio Recordings", *International Conference on Electronics, Communication and Aerospace Technology, 2019, Coimbatore, IEEE conference*
20. Vishal Hadoltikar, V.R.Ratnaparkhe, "Effect of format conversion on source identification from audio recordings: a study for forensic purposes", *3<sup>rd</sup> Biennial International Conference on Recent Trends in Image Processing and Pattern Recongition (RTIP2R, 2020) Dr.B.A.M.U. Aurangabad, IEEE conference*

**National Journal:**

1. Archana Ekbote, V.R.Ratnaparkhe, "Genetic Syndrome Identification : An Image Processing Approach", *IETE Journal of Research*

**National Conference:**

1. Komal Khatri, V.R.Ratnaparkhe, S.S.Agrawal, A.S.Bhalchandra, "Image Processing approach for Malarial Parasite identification", *National Conference Growth of Technologies in Electronics, Computers and Telecom : Indian Perception - GTECT-2013 Mumbai, Maharashtra, India , 28 & 29 Sept 2013.*

**Short Term Training Programme Organized:**

1. Certificate Course on Signal & Image Processing ( 3 Batches)
2. STTP of one week on Signal & Image Processing (Under TEQIP II)

**Expert Lectures Presented:**

1. Digital Image Processing, Nielit, Aurangabad
2. Optical Fiber Communication, Devgiri Engineering College, Aurangabad
3. Microwave Engineering Basics, Dr.B.A.M.U.Aurangabad
4. Applications of Digital Image Processing, Dr.B.A.M.U.Aurangabad
5. MATLAB, MIT, Aurangabad
6. MATLAB, G.E.C. Aurangabad
7. Digital Image Processing : Applications, Devgiri Engineering College, Aurangabad
8. Outcome Based Education, B.Ed Government Engineering College, Aurangabad

**Short Term Training Programmes Participated:**

1.	Soft Computing Tools & its Applications in Engineering (20.06.2011 to 01.07.2011), Government College of Engineering, Aurangabad
2.	Skill Matrix Enhancement and effective Teaching-learning for quality Technical education, (28.11.2011 to 09.12.2011), Government College of Engineering, Aurangabad
3.	Engineering Optimization Techniques and its application in Research, (02.01.2012 to 12.01.2012), Government College of Engineering, Aurangabad
4.	Emerging trends in microwave and micro strip devices, (07.05.2012 to 11.05.2012), MIT Aurangabad
5.	Self Management and Team Management for Success Breaking the Barriers (18.09.2012), Government College of Engineering, Aurangabad
6.	Genetic Algorithm and Neuro Fuzzy Applications in Engineering, (17.12.2012 to 21.12.2012), Government College of Engineering, Aurangabad
7.	NBA Workshop for Training Resource Persons on Outcome based Accreditation – Phase I & II, (29.04.2013 & 17.05.2013 to 19.05.2013), C. O. E. Pune
8.	Soft Computing Tools and its Applications in Engineering, (03.06.2013 To 07.06.2013), Government College of Engineering, Aurangabad
9.	System Design using FPGA, (24.06.2013 to 28.06.2013), Government College of Engineering, Aurangabad
10.	MSP 430 and its application and ASD with ASLKv2010 Starter kit, (20.09.13 to 24.09.13), Government College of Engineering, Aurangabad
11.	Network Security, (07.10.2013 to 11.10.2013), Government College of Engineering, Aurangabad
12.	Research Methodology Concepts and tools, (16.12.2013 to 20.12.2013), Government College of Engineering, Aurangabad
13.	Computer Networking using Windows Server, (17.11.2014 to 21.11.2014), NITTTR, JNEC Aurangabad
14.	Pedagogy to Synergogy, (07.12.2015 to 11.12.2015), Government College of Engineering, Aurangabad
15.	Advances in Digital Signal Processing, (03 and 04 Dec, 2015), Government College of Engineering, Aurangabad
16.	Wavelet Theory, (12.04.2016 and 13.04.2016), Government College of Engineering, Aurangabad
17.	Signal & Image Processing 2017, (06.02.2017 to 10.02.2017), Government College of Engineering, Aurangabad
18.	Optimization in Machine Learning , (27.02.2017 to 03.03.2017), Government College of Engineering, Aurangabad
19.	Recent trends in Electromagnetic, RF and Radar Signal Processing, ( 11.06.2018 to 15.06.2018), Government College of Engineering, Aurangabad
20.	Python Programming for Image Processing, (19.09.2018 to 23.09.2018), Government College of Engineering, Aurangabad
21.	Training the Trainers for the course: Engineering Exploration, (03.08.2018 to 07.08.2018), Government College of Engineering, Aurangabad
22.	Remote Sensing & Geographic Information System, (RSGIS-2020), (29.01.2020 to 02.02.2020), Government College of Engineering, Aurangabad