

Name MR. SAURABH SHRIKANT ATHALYE
B.E (E&TC), M.E. (ELECTRONICS),
PhD (Pursuing)

Date of Birth 30/01/1987

Highest Qualification Master of Engineering

Branch / Specialization **Electronics**

Designation Assistant Professor

Department Electronics & Telecommunication

Date of Joining the Institute 17/01/2019

Email address Saurabhathalye87@gmail.com



Academic Appointments

| Name of the University / Institute | Duration | Designation |
|--|-------------------------------|---------------------|
| Finolex Academy of Management and Technology, Ratnagiri | From 17/01/2019 to till date | Assistant Professor |
| K.K.Wagh Institute of Engineering Education & Research, Nashik | From 29/01/2018 to 03/11/2018 | Assistant Professor |
| Rajendra Mane College of Engineering & Technology, Ambav | From 26/08/2008 to 27/01/2018 | Assistant Professor |

Total Experience – 10 Years

Papers Presented/Published in National/ International Conferences (04)

1. Paper presented titled " **Comparative Study of Brain Tumor Classification Using SVM and PNN Classifier**" International Conference on Emerging Trends in Science & Technology (ICETST-2018) at Gateway Institute of Engineering and Technology, Gateway Campus, Sector 11, Sonipat, Haryana, India on 13th April 2018, ISBN: 978-93-87433-20-5
2. Paper presented titled "**Mobile proximity detection using wrist watch**" in national conference

on Changing technology and rural development CTRD 2K16 held during 16-17 December 2016 at RMCET, Ambav

3. Paper presented titled "**Android App Based Tourist Guide**" In 2nd national conference on Recent Advances in Science and Technology at Finolex Academy of Management and Technology, Ratnagiri on 17 to 18 February 2016.
4. Paper presented titled "**Robust dual watermarking using SVD and DWT**" In National Conference on Nascent trends in Information and Communication Technology at Terna Engineering College, Nerul, Navi Mumbai on 11 to 13 March 2013

Papers Presented/Published in National/ International Journals (05)

1. Paper titled " **Comparative Study of Brain Tumor Classification Using SVM and PNN Classifier**" International Journal of Computer & Mathematical Sciences IJCMS ISSN 2347 – 8527 Volume 7, Issue 4 April 2018
2. Paper titled "**Moving Object Detection Using FPGA.**" International Journal of Emerging Trends and Technology in Computer Science, Volume 3 - Issue 3 May-June 2014 page no.219-222-ISSN 2278-6856
3. Paper titled "**Detection of Moving Object Based on Background Subtraction**" International Journal of Emerging Trends and Technology in Computer Science, Volume 3, Issue 3 May-June 2014 Page No-215 to 218-ISSN 2278-6856
4. Paper titled "**Self Organizing Approach for Moving Object Detection and Tracking for Visual Survey-lance**" International Journal of Engineering and Technical Research, Volume 2, Issue 5, May-June 2014 Page No.40-43-ISSN 2321- 0869
5. Paper titled "**Robust dual watermarking using DWT and SVD**" International Journal of Emerging Trends and Technology in Computer Science, Volume 2, Issue 4 July- August 2013 Page No-360 to 363-ISSN 2278-6856

Book Written

"Use of singular value decomposition for digital image watermarking" Publisher: Lambert Academic Publishing. ISBN (978-613-5-80134-7).

Watermarking is the process of embedding data into a multimedia cover, and can be used primarily for copyright protection and other purposes. Schemes that have recently been proposed modify the pixel values or Transform domain coefficients. The Singular Value Decomposition (SVD) is a practical numerical tool with applications in a number of signal processing fields including image compression. In an SVD-based watermarking scheme, the singular values of the cover image are modified to embed the watermark data. This method has been proposed an optimal SVD-based watermarking scheme that embeds the watermark in two steps. In the first step, the cover image is divided into smaller blocks and a piece of the watermark is embedded in each block. In the second step extracting the watermark from the watermarked image. Use of SVD provides robustness. It can be proved by testing it in presence of various noise attacks & general image processing operations.



Saurabh Athalye
Sprooha Athalye
Siddhi Athalye

Saurabh Athalye is from India. Qualification is M.E.(Electronics). Now he is doing his Phd. Area of interest is Digital Signal Processing. The author has 9 years of teaching experience at undergraduate level.

**Use of singular value
decomposition for digital
image watermarking**



978-613-5-80134-7

LAP LAMBERT
Academic Publishing

Number of Workshops, Seminars, STTPs, FDPs Attended –14

1. Attended One week Faculty Development Program on “Machine Learning Techniques using Matlab” from 14th to 18th May 2018 organized by Bharati Vidyapeeth deemed to university College of Engineering, Pune.
2. Completed four week NPTEL online course on “Effective Engineering Teaching in Practice” with Elite certification conducted in Feb-Mar 2018. This course was funded by the ministry of HRD, govt. of India and organized by IIT, Madras.
3. Attended one week online course conducted by ISRO on “UAV remote sensing & applications” from 3rd September 2017 to 7 September 2017.
4. Completed one week AICTE sponsored short term training programme on “Image Processing & Computer Vision” held during 12th -16th December 2016 at College Of Engineering Pune.
5. Completed four month CDEEP online course on “Signals & Systems” with Honour Code certification conducted in July-March 2016. This course was funded by the ministry of HRD, govt. of India and organized by IIT, Bombay.
6. Attended one day workshop on “Outcome based education” organized by department of Automobile & Mechanical Engineering at Rajendra mane College of Engineering & Technology on 12 July 2014.
7. Participated in Two week ISTE Workshop on “Computer Programming” conducted by IIT Bombay in duration 20th May 2014 to 21st June 2014.
8. Participated in Three day Workshop on “Preparing for NBA Accreditation” organized by Bharati Vidyapeeth Deemed University College Of Engineering, Pune from 23rd to 25th September 2013.
9. Participated in ISTE approved one week short term training programme on “Applications of Matlab in Engineering” from 29th August to 2nd September 2013 at Rajendra Mane College Of Engineering & Technology, Ambav.
10. Completed Inplant Industrial Training at BSNL, Ratnagiri from 23rd July to 27 July 2012.
11. Participated in ISTE approved one week short term training programme on “Digital Signal Processing with Image Processing” from 9th July to 13th July 2012 at SAKEC, Mumbai.
12. Completed STTP conducted by Prolific Systems & Technologies pvt ltd. On “Microcontroller Programming Embedded C” during 9th to 12th October 2010 at RMCET, Ambav.
13. Participated in two days’ workshop on “Simulation of Electronic Circuits & Power Electronics using SEQUEL” from 31st October to 1st November 2009 at FAMT, Ratnagiri.
14. Attended ISTE approved two week STTP on “Applications of Fuzzy Mathematics & Matlab in

Engineering" from 15th December to 26th December at Dr.J.J.Magdum college of Engineering, Jaysingpur.

Membership in Professional Bodies

1. Life member of "ISTE" (LM 80596)
2. Life time Associate Member of "IETE" (AM-501043)

Seminars/Lecture/ Invited Talks Delivered As Resource Person

1. Co-ordinated Employability enhancement programme for SE,TE,BE students in year 2018
2. Delivered seminar on "Virtual Lab" at Government Polytechnic, Ratnagiri.

Awards / Honours / Prizes

Received award -The Best Teacher of Electronics & Telecommunication Engineering department for academic year 2016-17 at Rajendra Mane College of engineering & Technology, Ambav-Devrukh.

College Exam Duties - Type of Work

1. Carried out exam related duties such as **Moderator, Examiner and External Examiner** for conducting practical and oral exam as pointed by Board of Examination, Mumbai University.
2. Carried out exam related duties such as **Moderator, Examiner and External Examiner** for conducting practical and oral exam as pointed by Board of Examination, Savitribai Phule Pune University.

Other Experience

1. Worked as a Departmental Training and Placement coordinator for five years at Rajendra Mane College of Engineering & Technology
2. Worked as a Faculty Head of Student Council for two years at Rajendra Mane College of Engineering & Technology
3. Worked as a Member of attendance monitoring committee for two years at Rajendra Mane College of Engineering & Technology
4. Worked as an Editor of college and departmental newsletter for five years at Rajendra Mane College of Engineering & Technology
5. Worked as an Executive Secretary of National Level Technical Symposium 'URJITAM- 2010' at Rajendra Mane College of Engineering & Technology
6. Worked as a Public Relation Team In charge of National Level Technical Symposium 'URJITAM-2012' at Rajendra Mane College of Engineering & Technology

7. Worked as a Secretary of National Level Technical Symposium 'Scintilla-2014' at Rajendra Mane College of Engineering & Technology
8. Worked as a Secretary and Public Relation team in charge of National Level Technical Symposium 'Scintilla2K16' at Rajendra Mane College of Engineering & Technology.
9. Worked as a departmental coordinator of Entrepreneurship Development Cell for 6 months at K.K.Wagh Institute of Engineering education & Research, Nashik.

Subjects Taught

| SR | Name of the subject | Year/Branch/ | Experience |
|----|--|--------------|------------|
| 1 | Signals & Systems | T.E.-E & TC | 3 |
| 2 | Discrete Time Signal Processing | B.E.-E & TC | 1 |
| 3 | Discrete Time Signal Processing | T.E.-E & TC | 3 |
| 4. | Principles of Communication Engineering | S.E.-E&TC | 2 |
| 5. | Object Oriented Programming Methodology | S.E.-E&TC | 3 |
| 6. | Speech Processing | B.E.-E & TC | 2 |
| 7. | Basic Electrical & Electronics Engineering | F.E. | 2 |
| 8. | Basic Electrical Engineering | F.E. | 1 |
| 9 | Basic Electronics | F.E. | 1 |
| 10 | Television & Video Engineering | T.E.-E & TC | 2 |
| 11 | Industrial Economics & Telecomm Regulation | T.E.-E & TC | 2 |
| 12 | Industrial Economics & Management | T.E.-E & TC | 1 |
| 13 | Mobile Communication | B.E.-E & TC | 1 |
| 14 | Computer Communication Network | B.E.-E & TC | 1 |