

## STAFF PROFILE



**Dr. Sangeeta Dhananjay Jadhav**

Professor

Information Technology

hodit@aitpune.edu.in

Date of Joining  
31/05/2017

Nature of Appointment  
Regular

### Educational Details

Qualification	Degree	University	Grade	Year
SSC		Maharashtra board	83	1985
HSC		Maharashtra board	84	1987
Graduation	BE(Electronics)	Pune University	72.33	1992
PG	M(Electronics & Telecommunication)	Pune University	61	1999
Doctoral	Ph D(Electronics)	BAMU	A	2012

### Areas of Interest

1.Signal Processing 2) Image processing 3) Wireless communication 4) Computer Network

### Experience Details

Total : 25.00 years	Teaching : 25.00 years	Research : 0.00 years	Industry : 0.00 years
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Type	Duration/ Period	Designation/ Organisation Name	Brief Job Profile
Educational	4.00 Years Oct 1992-Dec 1996	Lecturer DY Patil College of Engg,Pune	Taught various subjects like Microprocessor based systems, Process Instrumentation, Linear Integrated Circuits
Educational	8.00 Years Jan1997-July 2004	Lecturer Army Institute of Technology	Taught various subjects like signal processing, image processing, control systems , power electronics, signals and systems etc
Educational	8.00 Years July 2004-july 2012	Asst. Professor Army Institute of Technology	Taught various subjects like signal processing, image processing, control systems , power electronics, signals and systems etc
Educational	5.00 Years july 2012-till date	Professor Army Institute of Technology	Taught various subjects like computer organisation and architecture, Digital communication, fundamentals of communication and computer networking, image processing, control systems , power electronics, signals and systems etc

### Journal Publications

1. Dr. Sangeeta Jadhav, (2019). Cloud Chain-Revamp health record system using block chain. *IJRASET*. 7(5), 10-11. ISBN/ ISSN No : ISSN-2321-9653. URL : [www.ijraset.com](http://www.ijraset.com) .
2. Renuka Bhandari, Sangeeta Jadhav, (2018). [Insight on Blind Channel Estimation of MIMO- OSTBC](#)

[using Higher Order Statistics with Kalman Filter \(HOS-KF\)](#). *Helix the scientific explorer*. 8(4), 3431-3437. ISBN/ ISSN No : 2319 – 5592. URL : <http://helix.dnares.in/wp-content/uploads/2018/08/3431-3437.pdf>.

3. Renuka Bhandari, Sangeeta Jadhav, (2018). [Spectral Efficient Blind Channel Estimation Technique for MIMO-OFDM Communications](#). *Journal of Advanced Research in Dynamical and Control Systems*. 10 (12), 771-785. ISBN/ ISSN No : 1943-023X. URL : <http://www.jardcs.org/abstract.php?archiveid=5536>.
4. Renuka Bhandari, Sangeeta Jadhav, (2018). [Spectral and Power Efficient Blind Channel Estimation Technique for MIMO-OFDM Communications](#). *Jour of Adv Research in Dynamical & Control Systems*. 10(8), 93-106. ISBN/ ISSN No : 1943-023X. URL : <http://www.jardcs.org/abstract.php?archiveid=5401>.
5. Renuka Bhandari, Sangeeta Jadhav, (2018). Spectral Efficient Blind Channel Estimation Technique for MIMO-OFDM Communications. *International Journal of Advances in Applied Sciences*. 7(3), 286-297. ISBN/ ISSN No : ISSN:2252-8814. URL : [www.iaescore.com/journals/index.php/IJAAS/article/view/13547](http://www.iaescore.com/journals/index.php/IJAAS/article/view/13547).
6. Renuka Bhandari, Sangeeta Jadhav, (2018). [Novel Spectral Efficient Technique for MIMO-OFDM Channel Estimation with Reference to PAPR and BER Analysis](#). *Wireless Personal Communications*. in press(in press), DOI 10.1007/s11277-018-6077-7. ISBN/ ISSN No : 1572-834X. URL : <https://www.springerprofessional.de/en/novel-spectral-efficient-technique-for-mimo-ofdm-channel-estimati/16253782>.
7. Renuka Bhandari, (2017). [1. Blind Channel Estimation using Novel Independent Component Analysis with Pulse Shaping for Interference Cancellation](#). *Springer's series -Studies in Computational Intelligence*. 722(1), 45-56. ISBN/ ISSN No : 1860-949X. URL : [https://link.springer.com/chapter/10.1007/978-3-319-61388-8\\_3](https://link.springer.com/chapter/10.1007/978-3-319-61388-8_3).
8. Renuka Bhandari, Sangeeta Jadhav, (2017). [Blind Channel Estimation using Novel Independent Component Analysis with Pulse Shaping for Interference Cancellation](#). *Springer's series -Studies in Computational Intelligence*. 722(1), 45-56. ISBN/ ISSN No : 1860-949X. URL : [https://link.springer.com/chapter/10.1007/978-3-319-61388-8\\_3](https://link.springer.com/chapter/10.1007/978-3-319-61388-8_3).
9. Dr. Sangeeta Jadhav, (2013). A Review of BSS Based Digital Image Watermarking and Extraction Methods. *IOSR Journal of Electronics and Communication Engg.*. Vol 5(06), 41-45. ISBN/ ISSN No : ISSN- 2278-8375. URL : [www.iosrjournals.org/ccount/click.php?id=4283](http://www.iosrjournals.org/ccount/click.php?id=4283).
10. Sangeeta Jadhav, Dr. Anjali Bhalchandra, (2011). Insight on Using Non-Evolutionary Optimization Method to Estimate Mixing Matrix for BSS Based Digital Image Watermarking. *International Journal on Graphics, Vision and Image Processing(GVIP)*. 11(1), 21-27. ISBN/ ISSN No : ISSN 1687- 398X(print). URL : [www.icgst.com/gvip/Volume11/Issue1/P1151043322.html](http://www.icgst.com/gvip/Volume11/Issue1/P1151043322.html).
11. Sangeeta Jadhav, Dr. Anjali Bhalchandra, (2010). [Robust Digital Image-Adaptive Watermarking Using Wavelet Domain Embedding and BSS based Extraction Technique](#). *International Journal of Engineering Research and Industrial Applications(IJERIA)*. Vol.3,No.(II), 83-97. ISBN/ ISSN No : ISSN 0974-1518,. URL : <http://www.ascent-journals.com/IJERIA/Vol3No2/Paper-6.pdf>.
12. Sangeeta Jadhav, Dr. Anjali Bhalchandra, (2010). Robust Digital Image-Adaptive Watermarking Using BSS Based Extraction Technique. *International Journal of Image Processing(IJIP)*. Vol.(4)(1), 77-88. ISBN/ ISSN No : ISSN 1985-2304. URL : [www.cscjournals.org/csc/manuscriptinfo.php?ManuscriptCode=72...](http://www.cscjournals.org/csc/manuscriptinfo.php?ManuscriptCode=72...)

## Conference Publications

1. Dr. Sangeeta Jadhav, (2020). [A Comprehensive Survey of Different Phases for Involuntary System for Face Emotion Recognition](#). *RTIP2R 2020*. 1(2), 21-22. ISBN/ ISSN No : 1234.
2. Dr. Sangeeta Jadhav, Smita Kulkarni, (2019). A Discriminative Model for Multiple People Detection. *International conference on Signal and Data Processing (ICSDP-2019)*. 1(1), 20-21. ISBN/ ISSN No : ISBN-1.
3. Sangeeta Jadhav, Renuka Bhandari, (2017). [Blind Channel Estimation using Novel Independent Component Analysis with Pulse Shaping for Interference Cancellation](#). *15 th International Conference on Software Engineering Research, Management and Application (SERA 2017)*. -( ), 45-56. ISBN/ ISSN No : ISBN 1860-949X .
4. Dr. Sangeeta Jadhav, Neelum Dave, (2016). [Facial Emotion recognition using Log Gabor filter and PCA](#). *2016 International Conference on Computing Communication Control and automation (ICCUBEA)* . 2(1), 20-23. ISBN/ ISSN No : -.
5. Renuka Bhandari, Sangeeta Jadhav, (2015). [A literature Review on BSS Approaches for MIMO -OFDM Communication](#). *International Conference, ICCUBEA (IEEE sponsored)*. 10.1109/ICCUBEA.201(NA), 238-241. ISBN/ ISSN No : 978-1-4799-6892-3 .
6. Dr. Sangeeta D. Jadhav, (2013). [Digital Color Image Watermarking System Using Blind Source Separation](#). *International conference on digital image processing-2013*. -( ), 109-116. ISBN/ ISSN No : 10.5121/csit.2013.3911.
7. Sangeeta Jadhav, Anjali Bhalchandra, (2010). Blind Source Separation Based Robust Digital Image Watermarking Using Wavelet Domain Embedding. *International conferences on Cybernetics & Intelligent Systems (CIS) & Robotics, Automation and Mechatronics (RAM)*. -( ), 12-13. ISBN/ ISSN No : ISBN: 978-1-4244-6506-4.

8. Sangeeta D. Jadhav, Dr. Anjali Bhalchandra, (2009). Digital Color Image – Adaptive Watermarking Using Blind Source Separation. *International Conference on Advances in Computer Vision and Information Technology*. --(--), 193-201. ISBN/ ISSN No : ISBN-13: 9789380026954.
9. Sangeeta D. Jadhav, Dr. Anjali Bhalchandra, (2009). Digital Color Image Watermarking by Means of Blind Source Separation. *International Conference on Control, Automation, Communication and Energy Conservation-2009(INCACEC-09)*. -( -), 163-166. ISBN/ ISSN No : ISBN 978-81- 8424-439-7.
10. Sangeeta Jadhav, Dr. Anjali Bhalchandra, (2009). Blind Source Separation Based Digital Color Image –Adaptive Watermarking. *Fifth International Conference on Image and Graphics,(ICIG) Xian,China*. -( -), 13-17. ISBN/ ISSN No : ISBN : 978-0-7695-3883-9,.
11. Sangeeta D. Jadhav, Dr. Anjali Bhalchandra, (2008). Blind Source Separation: Trends of New Age - A Review. *International Conference on Wireless, Mobile and Multimedia Networks*. -( -), 251-254. ISBN/ ISSN No : ISBN: 978 0 86341 887 7.

## Book Chapters

1. Dr. Sangeeta Jadhav, Smita Kulkarni, (2019). [Survey on human activity recognition by analysing person action from video sequences using machine learning techniques](#). *Optimization in machine learning and applications*. Springer . ISBN/ ISSN No : ISBN 978-981-15-0993-3.
2. Dr. Sangeeta Jadhav, Smita Kulkarni, (2018). [Insight on Symmetrical Posture Detection of Human Using SIFT ...](#). *Advances in Intelligent Systems and Computing*. Springer . ISBN/ ISSN No : ISBN 978-981-10-6871-3.
3. renuka bhandari, sangeeta jadhav, (2017). [Blind Channel Estimation Using Novel Independent Component Analysis with Pulse Shaping for Interference Cancellation](#). *Software Engineering Research, Management and Applications*. Springer, Cham. ISBN/ ISSN No : 978-3-319-61388-8.
4. smita kulkarni, Dr. Sangeeta Jadhav, (2016). [Insight on Symmetrical Posture Detection of Human Using SIFT](#). *Progress in Intelligent Computing Techniques: Theory, Practice, and Applications*. Springer. ISBN/ ISSN No : (ISBN 978-981-10-3376-6.

## Books

1. Mrs Sangeeta Jadhav, (2008). *Digital Image Processing for BE ( E & TC)*. NIRALI. ISBN/ ISSN No : ISBN 029433.
2. Mrs Sangeeta Jadhav, (2006). *Electronic product Design for BE ( E and TC)*. NIRALI. ISBN/ ISSN No : ISBN 029312.

## Patent

1. Sangeeta Dhananjay Jadhav, (2011). 1536/MUM/2011. *A Method of Digital watermarking*. 25/05/2011, India.

## Copyright

1. RenukaBhandari, Sangeeta Jadhav, (2018). L -76176/2018. [Investigation of Blind Source Separation Approaches for MIMO communication Sytems](#). 21/06/2018, India.

## Conference

1. Session chair for National conference NCETCET-2017 (Attended), NCETCET-2017 , 2017, MIT college,Pune
2. International Conference on Advanced Computing and Intelligent Engineering ( ICACIE 2016) (Attended), Insight on Symmetrical Posture Detection of Human Using SIFT”, 2016, Bhubaneshwar,Odisha,India

## Guest Lecture

1. “Upcoming Languages and Technologies” (Organized), Guest Lecture, 2017, IT Dept-AIT

## Resource Talk

1. Guest lecture on COA (Attended), MIPS-For COA, 2019, RSCOE , Pune

2. Guest lecture on COA (Attended), MIPS-For COA, 2018, RSCOE , Pune
3. National level FDP by AICTE at DY PATil Akurdi Polytechnic college (Attended), Recent Trends in Wireless, 2018, DY PATil Polytechnic college Akurdi.

## Workshop

1. One day workshop at SPPU (Attended), Sexual harassment at workplace, 2018, SPPU Pune
2. NBA workshop (Attended), CO-PO mapping, 2018, AIT Pune
3. Foundation Program in ICT for Education-Pedagogy for Online and Blended Teaching – Learning Process (Attended), Two weeks FDP by IIT Bombay, 2018, AIT- RC center
4. Machine Learning and Deep Learning (Organized), One week STTP, 2017, AIT
5. Linux Kernel Programming (Organized), Workshop for students, 2017, IT Dept-AIT
6. Attended One day workshop on "Training programme on sexual harassment of women at workplace" (Attended), Training programme on sexual harassment of women at workplace, 2017, SPPU
7. One day FDP on Syllabus revision on "Foundations of Communication and Computer Network" (Attended), Syllabus revision on "Foundations of Communication and Computer Network", 2016, DY Patil college ,Akurdi,Pune

## Research Grants

Title Of Project	Funding Agency	Duration		Sanctioned Amount	Role of Investigator
Practical approaches of Artificial Neural Network and Deep Learning	SPPU under QIP	17/12/2018	19/12/2018	100000.00	Principal Investigator
Probability and Statistics for Machine learning and Deep learning	SPPU under QIP Research Project	05/12/2017	09/12/2017	100000.00	Principal Investigator
Navigation System Using Optical Flow Detection Technique for Visually Impaired	BCUD	01/07/2014	01/07/2016	85000.00	Co-Investigator

## Consultancy

Title Of Project	Funding Agency	Duration	Sanctioned Amount	Investigator Role
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## Professional Memberships

Society	Membership No	Duration	
ISTE	LM 19821	01/06/1994	01/05/2030
IETE	F-233930	01/06/2012	01/05/2030
IEEE	IEEE- 90436726	01/01/2018	31/12/2018

## Achievements/ Contribution

Year	Details
2011	Best result award
2010	AIT Best Teacher Award

**No of PhD Students Guided** : 5      **No of PG Students Guided** : 0  
**No of PhD Awarded Students** : 1