



## Sinhgad Technical Education Society's

Sinhgad College of Engineering

Vadgaon (Budruk) Off. Sinhgad Road, S.No. 44/1,



Mrs. Supriya Omprakash Rajankar

**ME ENTC**

sorajankar.scoe@sinhgad.edu

9623176305

### Academic Qualification

Degree	Institute Name	University Name	Year of Passing	Percentage	Grade	Qualification Status
ME Electronics (Digital Systems)	G.C.O.E.P.	Pune university	2001	62.3%	First Class	Completed
BE Electronics	B.V.C.O.E.P.	Pune university	1992	67.0%	First Class with Distinction	Completed
PhD	SGGS IE&T, Nanded	Swami Ramanand Teerth Marathwada University,	-	-	-	Pursuing

### Conference Details

Name	Venue	Date	Level	Category	Type	Sponsored By
ICPC 2015	Sinhgad College of Engineering, Pune	08 Jan 2015 to 10 Jan 2015	International	Extra-Curricular Activities		IEEE Communication chapter, Pune
International Conference on Pervasive Computing (ICPC) 2015	Sinhgad College of Engineering, Pune	08 Jan 2015 to 10 Jan 2015	International	Research		IEEE
Medical Imaging, m-Health & Emerging communication systems	Greater noida	07 Nov 2014 to 08 Nov 2014	International	Research		IEEE
National Conference on Latest Trends in Electronics and Telecommunication (NCLTE-2013)	Sinhgad College of Engineering, Pune	23 Oct 2013 to 24 Oct 2013	National	Research		University of Pune

National Conference on Communication, Computing and Networking Technologies (NCCCNT-12)	S.G.G.S.I.E.&T., Nanded	16 Mar 2013 to 16 Mar 2013	National	Research		TEQIP-II
National Symposium on Pervasive Computing (NSPC-2013)	Sinhgad College of Engineering, Pune	15 Mar 2013 to 15 Mar 2013	National	Research		TEQIP-II
International Conference on Power System Operation & Energy Management (ICPSOEM-2013)	Mumbai	20 Jan 2013 to 20 Jan 2013	International	Research		Interscience Open Access Journal
International Conference on Current Trends & Challenges in Management, Engineering, Computer Applications and Technology (ICCTCMECAT 2012)	Deogiri Institute of Engineering and Management Studies, Aurangabad	23 Mar 2012 to 24 Mar 2012	International	Research		CIMSR, Pune
INNOVATION-2012	M.A.E. Alandi, Pune	19 Mar 2012 to 20 Mar 2012	University of Pune	Research		BCUD, University of Pune
National Conference on Futuristic Applications in Electronics Engineering	AISSM's IOIT, Pune	10 Mar 2011 to 11 Mar 2011	National	Research		IETE, Pune
International Joint Conference on Advances in Engineering and Technology-AET 2010	Trivendram, Kerala	21 Dec 2010 to 22 Dec 2010	International	Research		ACEEE
INNOVATION-2010	Sinhgad College of Engineering, Pune	26 Oct 2010 to 27 Oct 2010	University of Pune	Research		BCUS, University of Pune
Conference for ME Electronics Students (ePGCON 10)	Rajarshi Shahu College of Engineering, Pune	17 Apr 2010 to 17 Apr 2010	University of Pune	Intra-Institutional Conference		University of Pune

INNOVATION 2009-10	Sinhgad College of Engineering, Pune	16 Dec 2009 to 17 Dec 2009	University of Pune	Research		BCUD, University of Pune
National conference on Signal and Image	Govt. College of Engineering ,Pune	19 Sep 2009 to 20 Sep 2009	National	Research		THE IET(UK), Mumbai network
Conference for PG Electronics Engineering Students (ePGCON 09)	Sinhgad College of Engineering, Pune	25 Apr 2009 to 25 Apr 2009	University of Pune	Intra-Institutional Conference		University of Pune
National Conference on Pervasive Computing(NC PC-2010)	Sinhgad College of Engineering ,Pune	09 Apr 2009 to 09 Apr 2009	National	Research		IEEE, Pune section
National Conference on Signal Processing & Automation(NC SPA-07)	Padmashree Dr.D.Y.Patil I.O.E&T,Pimpri	07 Sep 2007 to 08 Sep 2007	National	Research		IEEE, student's Chapter
Technobuzz-07	Sou.Venutai Chavan Polytechnic, Pune	05 Feb 2007 to 06 Feb 2007	National	Research		ISTE
Technobuzz-07	Sou.Venutai Chavan Polytechnic, Pune	05 Feb 2007 to 06 Feb 2007	National	Research		ISTE
International Conference on Multidisciplinary Aspects of Engineering(IM AE 05)	Pune Institute of Engg. and Technology,Pune,Formerly Govt. C.O.E.P	07 Jan 2005 to 08 Jan 2005	International	Research		IEEE,Bombay section

## Research Projects

Project name	Description	Status	Budget	Project type
A Comparative Study of ECG Signal Compression Techniques	Different transforms like DFT,DCT and DWT were considered for ECG signals. Performance was evaluated based on	Completed	50000	Sponsored Projects

## Research Papers and Journals

ISSN/ISBN No	Paper Title	Publish Date	Journal/Conference Name	Level	Paper Status	Authors
2349-784	Performance Analysis of Computationally Efficient Model based Object Detection and Recognition Techniques	2016	International Journal of Science Technology & Engineering  , Vol 3, Issue 1, 160-165	Journal - International level	Accepted and Published	Supriya Rajankar
ISSN (Online) 2278-1021 ISSN (Print) 2319 5940	A Review: An Efficient Method to Remove Camera Shake in Blurred Images	2016	International Journal of Advanced Research in Computer and Communication Engineering, Vo l. 5, Issue 6, June 2016	Journal - International level	Accepted and Published	Supriya Rajankar
2319-7242	Preprocessing Techniques of Electrocardiogram	2016	International Journal of Engineering And Computer Science, Volume 5 Issue 6	Journal - International level	Accepted and Published	Supriya Rajankar
2277-9655	Biometric Authentication System Using Rpi	2016	International Journal of Engineering Sciences & Research Technology, April, 2016,	Journal - International level	Accepted and Published	Supriya Rajankar
2349-784	Improvising Field of View of Camera using Fisheye Image Correction	2016	International Journal of Science Technology & Engineering, Vol 3, Issue 1, 100-104	Journal - International level	Accepted and Published	Supriya Rajankar
978-1-4799-6272-3/15/\$31.00(c) 2015 IEEE	An optimum ECG Denoising with Wavelet Neural Network	2015	International Conference on Pervasive Computing (ICPC) 2015	Conference-International level	Accepted and Published	Supriya Rajankar
978-1-4799-6272-3/15/\$31.00(c) 2015 IEEE	Automatic Recognition Of Class Variants Of Marathi Consonants	2015	International Conference on Pervasive Computing (ICPC) 2015	Conference-International level	Accepted and Published	Supriya Rajankar
e- ISSN: 2395-0056,p-ISSN 2395-0072	Secure sharing of Sensitive Health Data using Wavelet Stegnography	2015	International Research Journal of Engineering and Technology(IR JET) vol 02,issue 06	Journal - International level	Accepted and Published	Supriya Rajankar
ISSN: 2321-8134	ECG Stegnography based Protection of Confidential Medical Data	2015	International Journal for Engineering Applications and Technology(IJF EAT)	Journal - International level	Accepted and Published	Supriya Rajankar
2395-6720	Vision Based Gesture Recognition Techniques: A Review	2015	Journal of Artificial Intelligence Research & Advances. 2015; vol 2(3):	Journal - International level	Accepted and Published	Supriya Rajankar
978-1-4799-5097-3/14/\$31.00 ©2014 IEEE	Generalized False Discovery Rate based Adaptive Thresholding Approach for ECG signal Compression	2014	International Conference on Medical Imaging, m-Health and Emerging Communication Systems (MedCom) 2014	Conference-International level	Accepted and Published	Supriya Rajankar

2321-0869	A Cross-layer approach for Energy Efficient Wireless Communication	2014	International Journal of Scientific & Engineering Research	Journal - International level	Accepted and Published	Supriya Rajankar
2320-3706	Optical Watermarking Approach for Printed Document Authentication	2014	International Journal & Magazine of Engineering, Technology, Management and Research	Journal - International level	Accepted and Published	Supriya Rajankar
ISSN: 0974-9659	Arm based Electronic Governor	2013	CIIT International Journal of Automation and Autonomous system	Refereed Journal	Accepted and Published	Supriya Rajankar
ISBN:978-93-82880-09-7	ECG Denoising Using Wavelet Neural Network	2013	National Conference on Communication , Computing and Networking Technologies, NCCCNT	Conference- National level	Accepted and Published	Supriya Rajankar
na	Encryption on Compressive Sensing	2013	National Symposium on Pervasive Computing, NSPC 2013 organized by Sinhgad College of	Conference - National level	Accepted and Published	Supriya Rajankar
na	Parameterization and R-Peak Error Estimations of ECG Signals Using	2013	National Symposium on Pervasive Computing, NSPC 2013 organized by Sinhgad College of	Conference - National level	Accepted and Published	Supriya Rajankar
na	Load Mitigation of Wind Turbine Using LIDAR and Feed-Forward	2013	National Symposium on Pervasive Computing, NSPC 2013 organized by Sinhgad College of	Conference - National level	Accepted and Published	Supriya Rajankar
na	Distance Determination for an Automobile Environment	2013	National Symposium on Pervasive Computing, NSPC 2013 organized by Sinhgad College of Engineering, Pune , under TEQIP-II	Conference - National level	Accepted and Published	Supriya Rajankar
na	Watermarking based Printed Document Authentication	2013	National Symposium on Pervasive Computing, NSPC 2013 organized by Sinhgad College of Engineering, Pune, under	Conference - National level	Accepted and Published	Supriya Rajankar
na	Biomedical Signal Compression	2013	National Conference on Pervasive Computing, NCPC 2010 organized by Sinhgad College of Engineering, Pune and IEEE Pune Section	Conference - National level	Accepted and Published	Supriya Rajankar
ISSN 2319-2690	Removing Artifacts from the ECG By using Independent component analysis	2013	[IJRSAT] International Journal for Research in Science & Advanced Technologies	Journal - International level	Accepted and Published	Supriya Rajankar
ISSN (Online): 2347-2820	ECG Data Compression using Principal Component Analysis	2013	International Journal of Electrical, Electronics and Computer Systems, (IJEECS)	Journal - International level	Accepted and Published	Supriya Rajankar

ISSN: 2249 – 8958	Study the Effects of Encryption on Compressive Sensed Data	2013	International Journal of Engineering and Advanced Technology (IJEAT)	Journal - International level	Accepted and Published	Supriya Rajankar
na	Security Attacks on Different Wi-Fi Protocols	2013	National Conference on Latest Trends in Electronics & Telecommunication (NCLTE-2013)	Conference-National level	Accepted and Published	Supriya Rajankar
NA	A 2-D ECG Compression Technique Based on DTCWT & SPIHT	2013	National Conference on Latest Trends in Electronics & Telecommunication (NCLTE-2013)	Conference-National level	Accepted and Published	Supriya Rajankar
na	LIDAR Enabled Wind Turbine Load Mitigation using FX-RSL Feed-Forward Algorithm	2013	International Conference on Power System Operation & Energy Management (ICPSOEM), Mumbai	Conference-International level	Accepted and Published	Supriya Rajankar
ISSN: 231976378	Wind Turbine Load Mitigation Using FX-RSL Feed-Forward Algorithm	2013	International Journal of Emerging Science and Engineering (IJESE)	Refereed Journal	Accepted and Published	Supriya Rajankar
ISSN :2278-1676	ECG Signal Compression: A Transform Based Approach	2012	IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE)	Refereed Journal	Accepted and Published	Supriya Rajankar
ISSN: 2278-7451, ISBN: 2319-6491	ECG Analysis using Wavelet Transform and Neural Network	2012	International Journal of Engineering Inventions	Refereed Journal	Accepted and Published	Supriya Rajankar
ISSN:2278-8875	Performance Evaluation of DWT and DT- CWT with SPIHT Progressive Image Coding for Natural Image Compression	2012	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	Refereed Journal	Accepted and Published	Supriya Rajankar
ISSN: 22768-4721	Design and Development of Smart Automatic Windshield Wiper System: Fuzzy Logic Approach	2012	International Journal of Engineering and Science	Refereed Journal	Accepted and Published	Supriya Rajankar
ISSN: 0975-3397	Dorsal Hand Vein Biometry by Independent Component Analysis	2012	International Journal on Computer Science and Engineering(IJ CSE)	Refereed Journal	Accepted and Published	Supriya Rajankar
na	USB to USB Bridge for Computer Independent Data Transfer	2012	IJCA Proceedings on International Conference on Intuitive Systems and Solutions 2012	Conference - International level	Accepted and Published	Supriya Rajankar

na	Wireless Body Area Network: Real-Time Health Monitoring System	2012	National Conference on Advancement in Electronics and Telecommunications Engineering, MatoshriPratish thanâ??s Group of Institutions School of Engineering, Nanded	Conference - National level	Accepted and Published	Supriya Rajankar
na	Transform based Approach for ECG Signal Compression	2012	National Conference Innovation 12 organized by University of Pune organized by M.A.E. Alandi	Conference - National level	Accepted and Published	Supriya Rajankar
na	DWT-SPIHT Progressive Coding Technique for Image Compression	2012	National Level Paper Presentation & Technical Event,Pragyan, Illuminate 2K12, Gangamai College of Engineering, Naigaon,	Conference - National level	Accepted and Published	Supriya Rajankar
ISSN:2249-7455	Identification and Classification of Cancer Cells using Statistical and Neural Network Method	2012	International Journal of Advances in Management, Technology and Engineering Sciences	Refereed Journal	Accepted and Published	Supriya Rajankar
na	Automatic Stop Start for Two wheelers to Improve Fuel Economy	2011	Global Journal of Mechanical and Computational Science (GJMECS)	Refereed Journal	Accepted and Published	Supriya Rajankar
DOI:02 ACS.2010.01.24	An Optimized Transform for ECG Signal Compression	2011	International Journal of Image Processing, ACEEE	Refereed Journal	Accepted and Published	Supriya Rajankar
na	Cell Detection & Classification using Transformation Invariant Template Based Method	2011	National Conference on Futuristic Applications in Electronics Engineering NCFEAE 2011organized by AISSMS Institute of Information Technology, Pune	Conference - National level	Accepted and Published	Supriya Rajankar
na	Embedded Electronic Governor for Diesel Engine	2011	National Conference on Futuristic Applications in Electronics Engineering NCFEAE 2011organized by AISSMS's Institute of Information Technology, Pune,	Conference - National level	Accepted and Published	Supriya Rajankar
na	Adaptive Control Algorithm for Speed Regulation of Marine Diesel Engine	2011	National Conference organized by G.H. Raisonni College, Pune	Conference - National level	Accepted and Published	Supriya Rajankar
na	ECG Signal Compression Techniques	2010	National Conference Innovation 10 organized by University of Pune organized bySinhgad College of Engineering	Conference - National level	Accepted and Published	Supriya Rajankar

na	Complex Wavelet Based Coding Methods	2010	National Conference on Pervasive Computing, NCPC 2010 organized by Sinhgad College of Engineering, Pune and IEEE Pune Section	Conference - National level	Accepted and Published	Supriya Rajankar
na	EMI/EMC Tesing Methods	2010	National Conference on Pervasive Computing, NCPC 2010 organized by Sinhgad College of Engineering, Pune and IEEE Pune Section	Conference - National level	Accepted and Published	Supriya Rajankar
na	ECG Signal Compression: A Hybrid Approach	2010	National Conference on Pervasive Computing, NCPC 2010 organized by Sinhgad College of Engineering, Pune and IEEE Pune Section	Conference - National level	Accepted and Published	Supriya Rajankar
na	Cancer Detection & Diagnosis based on Histo-pathological Image Analysis	2010	National Conference on Pervasive Computing, NCPC 2010 organized by Sinhgad College of Engineering, Pune and IEEE Pune Section	Conference - National level	Accepted and Published	Supriya Rajankar
na	Guidelines for Software Development for Fire Door Testing As Per International Standards	2010	National Conference on Pervasive Computing, NCPC 2010 organized by Sinhgad College of Engineering, Pune and IEEE Pune Section	Conference - National level	Accepted and Published	Supriya Rajankar
na	Poincare Plot Based ECG Analysis	2010	National Conference on Pervasive Computing, NCPC 2010 organized by Sinhgad College of Engineering, Pune and IEEE Pune Section	Conference - National level	Accepted and Published	Supriya Rajankar
Na	HRV based ECG Classification	2009	International Conference on Electronic Design and Signal Processing ICEDSP-09, Jointly Organized by IEEE Bangalore Section, ECE Department, MIT Manipal & IEEE Student Branch MIT, Manipal	Conference - International level	Accepted and Published	Supriya Rajankar
Na	Comparative Study of ECG Signal Compression Techniques	2009	National Conference Innovation 09 organized by University of Pune organized by Sinhgad College of Engineering	Conference - State level	Accepted and Published	Supriya Rajankar
Na	Heart Rate Analysis in Time-Frequency Domain	2009	National Level Conference on Signal and Image Processing Applications organized by The IET (UK), Mumbai Network and Govt. College of Engineering., Pune	Conference - National level	Accepted and Published	Supriya Rajankar



NA	Classification of Arrhythmia using Spectral Analysis	2009	National Conference on Signal Processing, NCSP-09 at MIT, Aurangabad	Conference - National level	Accepted and Published	Supriya Rajankar
NA	Classification of Arrhythmia using Spectral Analysis	2008	National Level Conference Innovation 08 organized by University of Pune organized by Sinhgad College of Engineering	Conference - National level	Accepted and Published	Supriya Rajankar
NA	FPGA implementation of Image Compression using Wavelet Transform	2007	National Level Conference on Signal Processing and Automation NCSPA-07 organized by Pad. Dr. D.Y.Patil Institute of Engineering & Technology, Pune,	Conference - National level	Accepted and Published	Supriya Rajankar
NA	Guidelines for PCB design considering the electromagnetic compatibility of High speed Digital systems	2007	ISTE approved National Level Conference, Technobuzz 07 organized by Sou. Venutai Chavan	Conference - National level	Accepted and Published	Supriya Rajankar
NA	Probability of Post decoding Word & Bit Error Rates for Block error correcting codes	2007	ISTE approved National Level Conference, Technobuzz 07 organized by Sou. Venutai Chavan	Conference - National level	Accepted and Published	Supriya Rajankar
Na	A Full Precise Fixed Point Format, a Better Choice for Implementation of a Digital Filter in FPGA	2005	International Conference on Multidisciplinary Aspects of Engineering IMAE 05 organized by Pune Institute of Engineering & Technology, Pune and IEEE WIE affinity group, Bombay Section	Conference - International level	Accepted and Published	Supriya Rajankar

## Membership Details

Membership Body	Details	Duration	Level
ISTE	life member	22 Jun 2001 to	National
IETE	lifetime	30 Oct 2003 to	National
IEEE	93196690	01 Jan 2015 to 31 Dec 2015	International

## Post Held

Organization Name	Post	Organization Category	Appointment Status	Duration
Sinhgad College of Engg.	Associate Professor	Sinhgad Technical Education Society	Full time and Permanent	Jan 01,2006 to Aug 01,2016
Sinhgad College of Engg.	Assistant professor	Sinhgad Technical Education Society	UGC Approved	Jul 17,2002 to Dec 31,2005
Sinhgad College of Engg.	Lecturer	Sinhgad Technical Education Society	UGC Approved	May 02,1997 to Jul 16,2002
Sou. Venutai Chavan Polytechnic	Lecturer	Sinhgad Technical Education Society	Full time and Permanent	Jul 01,1994 to May 01,1997

M.C.V.C. Modern High school,Pune 53	Lecturer	Jr College Level	Full Time Appointment	Oct 11,1993 to Jun 30,1994
Technofour, Pune01	Trainee	Private Ltd Company	Trainee engineer	Jul 10,1992 to Aug 16,1993

## Books Published

ISBN	Title	Publisher	Publish Year
ISBN: 978-81-265-2743-4	Network Synthesis and Filter Design	Wiley India	Sept 2010
ISBN: 978-81-265-1999-6	Network Fundamentals and Analysis	Wiley India	Nov 2011

## Self Contribution

Institutional Development Contribution(2013-2014)			
Date	Venue	Contribution	Category
01,Jul - 20,Feb	SCOE,Pune	NBA report part 1 preparation	Member of Committee

Institutional Development Contribution(2014-2015)			
Date	Venue	Contribution	Category
15,Jun - 14,Jun	SKNCOE	SSC E&TC Club Coordinator Arranged project	Coordinator
10,Nov - 14,Nov	SCOE	Navabharat news letter article preparation	Member of Committee

Academic Development Contribution(2014-2015)			
Date	Venue	Contribution	Category
15,Jul - 14,Jun	SCOE	Post Graduate Coordinator of ME(DIGITAL SYSTEM)	Coordinator
15,Jul - 14,Jun	SCOE	Teachers Guardian of BE E & TC B1 batch	Teacher Guardian
15,Jul - 14,Jun	SCOE	Lab in charge of project lab	LAB INCHARGE

Student Development Contribution(2014-2015)			
Date	Venue	Contribution	Category
15,Jul - 14,Jun	SCOE	ETESA - Coordinator, S.E. Welcome function, F.E. & M.E. Induction Program, ETESA Felicitation, Teacher's day celebration, Guest Lecture arrangement.	co-coordinator

Organizational Development Contribution(2014-2015)			
Date	Venue	Contribution	Category
15,Jul - 14,Jun	SCOE	NBA report preparation.	Coordinator

Institutional Development Contribution(2015-2016)			
Date	Venue	Contribution	Category
01,Jun - 01,Jul	SCOE	SSC Electronics Club faculty in charge	Faculty Incharge

Organizational Development Contribution(2015-2016)			
--	--	--	--

Date	Venue	Contribution	Category
11,Jun	SCOE	Delivered lecture for TT-FTP on EMTL	Expert Session

Academic Development Contribution(2015-2016)			
Date	Venue	Contribution	Category
01,Jul - 01,Jul	SCOE	Post Graduate Co-ordinator of ME(DIGITAL SYSTEMS)	PG Coordinator
16,Jun - 30,Nov	SCOE	Teacher guardian for SE E&T/C B1 batch sem-I	Teacher Guardian
16,Jun - 30,Jun	SCOE	Laboratory in charge project lab	LAB INCHARGE
01,Jun - 30,Jun	SCOE	BE project evaluation group coordinator	Group co ordinator
01,Jun - 30,Jun	SCOE	ME project /seminar evaluation group	Coordinator
01,Jun	SCOE	File preparation (file no 7) for department NAAC	NAAC preparation
16,Jun - 30,Jun	SCOE	Subject in charge for EMTL and AWP	Subject Incharge

Student Development Contribution(2015-2016)			
Date	Venue	Contribution	Category
01,Jun - 01,Jun	SCOE	Arranged guest lectures of eminent personalities	Guest Lecture
01,Jun - 31,May	SCOE	arranged various competitions such Quiz,STIMULUs,Components quiz,Chess competetions under SSC ,co-ordination	Co-ordination
16,Feb - 17,Feb	SCOE	Arranged PCB design and layout workshop under SSC	Faculty Incharge

## Declaration

I hereby declare that all the above information furnished by me are true to the best of my knowledge.

Date :01-Aug-2016

Mrs. Supriya Rajankar