



Department of Electronics and Telecommunication Engineering

Faculty Profile

Prof. Rajeshri Rahul Itkarkar

PhD Pursuing

ME (E & TC)

Assistant Professor

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🌐 <https://scholar.google.com/citations?user=gJT-5DUAAAAJ&hl=en>



Research Areas / Areas of Interest

Signal Processing, Machine learning, Wireless communication...

Personal Details

Date of Birth : 26 / 02 / 1973

Domicile: Maharashtra

Gender : Female

Blood Group: A+ve

Contact Details: B1/5, Shubhashree Woods, Pimple Saudagar, Pune – 411027

Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D.	Electrical and Electronics Engg	VTU, Karnataka	--	Pursuing
2	M.E.	E & TC Engg.	Shivaji University	I st	December 2007
3	B.E.	Electronics Engg	Shivaji University	I st	May 1995

Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	19	07
2	Research	00	00
3	Industry	00	00
4.	Others	--	--
Total		19	07

Subjects / Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Audio and Video Engg	UG	BE (E & TC)	04
2	Analog Communiation	UG	SE (E & TC)	09
3	Mobile communication	UG	BE (E & TC)	04
4	Digital Communication	UG	TE(E & TC)	04
5	Wireless sensor	UG	BE(Elextrincs)	02

	Networks			
6	Image Processing and Computer vision	PG	SY(Digital Systems)	02
7.	Reconfigurable computing	PG	FY(VLSI and Embedded system)	02

Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
Journals	00	12	00	01	01
Conferences	08	14		01	--

Publication Details (Journals)

S. No	Document Details	Authors	Year	Source Details	ISBN/ISSN	Publisher
1.	Indian Sign Language Recognition using Gabor Feature extraction	Itkarkar Rajeshri R, Anil Kumar V. Nandi, Vaishali B. Mungurwadi	2019	International Journal Of Scientific & Technology Research 4	Vol 8, Issue 11, NOVEMBER 2019 ISSN 2277-8616	Elsevier Scopus indexed
2	Gesture to Speech Conversion for Sign Language Recognition,	Shuhangi Shinde, R R Itkarkar , Anilkumar Nandi	2017	International Journal of Electronics, Electrical and Computational System	ISSN 2348-117X Volume 6, Issue 8 August 2017.	IJECS
3	Automatic Detection of Text Labels of Hand-Held Objects for Blind	Sonali Munde1 , Prof.	2017	International Journal of Electronics,	ISSN 2348-117X Volume 6, Issue 8 August 2017	IJECS

	Persons,	Rajashri Itkarkar ² , Dr. D.G. Bhalke ³ , Dr. D. S. Bormane ⁴		Electrical and Computational System		
4	Robust Part- Based Hand Gesture Recognition Using Finger- Earth Mover's Distance	Ashwini Khole, R R Itkarkar , Anilkumar Nandi,	2017	International Journals of Advanced Research in Computer Science and Software Engineering	ISSN: 2277- 128X (Volume-7, Issue-7)	
5	" Image Fusion using double density discrete wavelet transform".	R R Itkarkar, Priyanka	2016	International Journal of Computer Science and Network (IJCSN)	vol 5, issue 1, Feb 2016	
6	" Car detecting method using high resolution images""	R R Itkarkar , swapnil dharankar	2016	International Journal of Recent and Innovation Trends in Computing and Communication	vol 4, Issue 2, Feb 2016.	
7	, "Remote Data Acquisition System (DAS) using GSM/GPRS",	Neelam Tambe, Itkarkar Rajashri	2015	International Jornal of Engineering Research and	Vol. no 4, Issue 06, June-2015: ISSN:2278-	

				Technology	0181	
8	"Hand Gesture Recognition Based on Hidden Markova Model"	Pooja Bhoir , Itkarkar Rajashri , Shilpa Bhople	2015	International Journal of Electrical, Electronics and Computer Science Engineering	Volume 2, Issue 3 (June 2015) E-ISSN : 2348-2273 P-ISSN:2454-1222.	
9	, "Indian Sign Language Recognition	Shilpa Bhople, Itkarkar Rajashri, Pooja Bhoir	2015	International Journal of Electrical, Electronics and Computer Science Engineering	", Volume 2, Issue 3 (June 2015) E-ISSN : 2348-2273 P-ISSN:2454-1222.	
10	" Hand Gesture Controlled Pick And Place Robot", ,	Prof.R.R. Itkarkar, Dixit Rohan, Pattewar Balaji , Deshmukh Saurabh	2015	International Journal of Advanced Technology in Engineering and Science	Volume No.03, Issue No. 04, April 2015	
11	, "A Study Of Vision Based Gesture Recognition For Human Machine Interaction",	Prof. Rajeshri R Itkarkar, Dr. Anil Kumar Nandy	2014	International journal of Innovative Research in Advanced Engg	Volume 1 Issue 12 , December 2014, ISSN :2349-2163	
12	"High quality text to speech synthesizer	Suraksha surywashi ,	2014	International journal of	Feb 2014.	

	using phonetic integration”,	Prof. R R Itkarkar,		advance research in electronics and communication Engg.		
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Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
1.	Smart Museum Based on IOT,	Nishigandha Kale, R R Itkarkar	2017	3rd International Conference on Advancement in Engineering , Applied Science and Management (ICAEASM-2017), 20th August 2017,	ISBN: 978-81-934288-1-8	
2	2D to 3D Image and Video Conversion	Shital Gaikwad ¹ , R.R.Itkarkar ² , Dr.D.G.Bhalke ³ , Dr.D.S.Bormane ⁴	2017	Methods 7th International Conference on Research Trends in Engineering , Applied Science and Management	ISBN: 978-81-934288-2-5	

				(ICRTESM-2017), 27th August 2017		
3	Automatic Detection of Text Labels of Hand-Held Objects for Blind Persons	Sonali Munde, Rajashri Itkarkar, D G Bhalke, D S Bormane	2017	3rd International Conference on Advanceme nt in Engineering , Applied Science and Manageme nt (ICAEASM-2017), 20th August 2017,	ISBN: 978-81-934288-1-8	
4	Secret-Fragment Visible Mosaic Image Technique for Image Hiding	Manisha Ghortale, Rajashri Itkarkar, D S Bormane	2017	3rd International Conference on Advanceme nt in Engineering , Applied Science and Manageme nt (ICAEASM-2017), 20th August 2017,	ISBN: 978-81-934288-1-8	
5	Depth-Based Hand Gesture	Rajashri Itkarkar1, Chetana Patil2	2017	International Conference on Advanceme	ISBN: 978-81-934288-1-8	

	Recognition , 3rd,			nt in Engineering , Applied Science and Manageme nt (ICAEASM- 2017), 20th August 2017		
6	, “ Contour- Based Real-Time Hand Gesture Recognition for Indian Sign Language” Singapore Pte Ltd. 2017	Rajeshri R. Itkarkar, Anilkumar Nandi , Bhagyashri Mane		Computatio nal Intelligence in Data Mining pp 683-691, Part of the Advances in Intelligent Systems and Computing book series (AISC, volume 556) (SCOPUS CONFERE NCE)	DOI 10.1007/978-981- 10-3874-7_65, © Springer Nature	
7	“Compariso n analysis for signature verification of bank cheque”	Priyanka Dhyarkar, Prof. Rajeshri R Itkarkar	2016	2016 International Conference on Automatic Control and Dynamic Optimizatio n Techniques (ICACDOT) International	doi:10.1109/icacdot.20 16.7877718	

				Institute of Information Technology (I ² IT), Pune,		
8	“ A survey of 2D and 3D imaging used in hand gesture recognition for human-computer interaction (HCI)”,	Prof. Rajeshri R Itkarkar, Dr. Anil Kumar Nandi,		IEEE WIECON-ECE-2016. IEEE International Women in Engineering Conference on Electrical and Computer Engineering 2016, 19-21 December, 2016,	97-1-5090-3745-2/16/\$31.00 ©2016 IEEE.	IEEE
9	, “ Application Control Using 3D Gesture Recognition ” ,	Asutosh Verule, Shivardhan Suryawanshi, Poonam Rajput, Rajashri Itkarkar	2014	International Conference on Convergence of Technology -2014,	978-1-4799-3759-2/14/\$31.00©2014 IEEE. 6th -8th April 2014	

PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	-	15	30

Professional Memberships

Professional Body	Level (National/ International)	Type (Fellow/Life/Annual)	Membership No.
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ISTE	National	Life	. LM -32009
IETE	National	Life	M-165712
IE	National	Life	M-1592216
IAENG	National	Life	241492

Patents / IPR Filed / Granted

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details
1					

Books Published

S. No	Title	Name of the Publisher	ISBN/ISSN Number
1	Television Engineering-Audio and Video Systems	Wiley India Publication	9788126556366

Research Grants Received

S. No	Program	Duration	Funding Agency	Grant Amount
-	-	-	-	-

Details of Workshop / STTP / FDP / Seminar / Conferences Organized

S. No	Title	Type	Duration	Level (State/National/International)	Sponsoring Agency
01	"Innovations in Recent Technologies and Patent" 21th July 2017. Speaker Mr. Manoj	Seminar	1 day	-	AISSMS COE Pune

	Chopade of Emerson Innovation Centre, Pune				
02	A three days workshop on “Embedded C with Arduino” from 17/01/2019 to 19/01/2019 for TE (Electronics) Students.	Workshop	3 days	-	AISSMS COE Pune
03	A two days workshop on “Drone Making “ from 21/01/2019 to 22/01/2019 by Aviot-o-Virtue & Institute of Engineers(India) Students’ Chapter(Electronics and TC Engineering)	Workshop	2 days		AISSMS COE Pune
04	“Awareness and Benefits of IEEE Membership” on 31/07/2019 by Dr. Chanakya Kumar Zha,(Executive Member IEEE Bombay Section)	Seminar	1 day		AISSMS COE Pune
05	FDP on Ardinou in association with Spoken tutorial IIT Bomaby on 28th April 2020 to 2nd	FDP	5 days	National	Spoken Tutorial IIT Bombay

	May 2020				
06	National Conference – NCIET2020 2th June 2020	National Conferenc e	1 day	National	AISSMS COE Pune

Contribution as Resource Person

S. No.	Place/ Organization	Topic	Level(National/Int/ State/Regional)	Date
1	JSPM Narhe Technical Campus, Pune.	“Analog Communication”	Regional	20th Jan 2014
2	JSPM RSCOE	Mobile communication – Unit5	Regional	2015
3	MIT Pune	Analog Comuunication	Regional	2016
4	VIT Pune	Audio video Engineering	Regional	2018
5	MES COE, Pune	Vlab Demonstration	Regional	12 th August 2020
6	Parikrama COE Kashti	Vlab Demonstration	Regional	18th August 2020

Details of Worshop / STTP / FDP / Conferences Attended

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
1	One week Workshop on Next generation software tools and trends for	works hop	13th to 17th June 2020	Govt college of Engineering Aurangabad	AICTE (TEQIP-III)

	industrial solutions: current practises -NGST2020			Sponsored by TEQIP-III	
2	One Week online FDP on Signal, Image & Video Processing: A Practical Approach (SIVPAPA-2020) under	FDP	May 26-30, 2020.	Government college of engineering, karad department of Electronics & Telecommunication Engineering under (TEQIP-III)	TEQIP-III
3	One week online FDP on Promoting quality culture in technical institutions	FDP	May 25th to 29th May 2020	AISSMS College of Engg, Pune	
4	One week online FDP on Advanced teaching tools techniques and methodologies and for outcome based education	FDP	01 June to 05 June 2020	AISSMS College of Engg, Pune	
5	Vision-Mission-PEO-PSO-PO-CO: Framing, Mapping, Assessment and Attainment	FDP	10-15 June 2019	AISSMS College of Engg, Pune	ISTE
6	One week FDP on Data Science	FDP	17th to 22nd June 2019	PMMMNMTT	MHRD Govt. of India Initiative,
7	Patent Law for Engineers	NPT	july- oct 2017	NPTEL	IIT bombay

	and Scientists	EL	12 weeks		
8	Digital Image Processing,	NPT EL Onlin e certifi catio n	july- oct 2018 12 weeks	NPTEL	IIT Bombay

Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1	Project Coordinator at AISSMS COE Since 2017 till date
2	Department Audit course Co-ordinator
3	Department Mentoring Co-ordinator
4	Department Vlab Co-ordinator
5	ME- Admission and Counseling-- 2013 to 2015
6	Senior Supervisor – Savitribai Phule, University theory Exams Oct/Nov 2014.
7	Communication Laboratory In charge since 2009 till 2018
8	Gaurdian Faculty Member

Awards Received

S. No.	Awards
1	Award declared The Innovative Global Scientific Research Educationalist- Professionals Awards & Honors Convocation-2020 Awarded by The Society of Innovative Educationalist & Scientific Research Professional Chennai Function on 18th Oct 2020

Declaration: I hereby declare that all the statement made above are correct to the best of my knowledge and belief.

Prof. Rajashri Itkarkar

(Name with Signature)