

BIO-DATA



1.	Name		Milind Shantilal Shah			
2.	Designation		Professor & Head – EXTC Department; Dean-Academics – FCRIIT.			
3.	Residential Address		Vashi, Navi Mumbai.			
4.	Date of birth		30-06-1968			
5.	Total Experience					
	i.	Teaching	28 years			
	ii.	Industrial / Research	~7 years (PhD and other)			
6.	Qualifications					
		Exam Passed	Year	Institution/ University	Branch/Specialization	Percentage/CGPI
		Ph.D.	2008	I.I.T. Bombay, Mumbai	Electrical Engineering Department (Signal Processing)	NA
		M.Tech.	1994	VNIT (VRCE), Nagpur University	Electronics Engineering	79.1%
		B.E.	1990	K.E.S.E.C., Pen (Mumbai University)	Electronics Engineering	63.14%
7.	Employment Record					
		Institution	Year (From To)	Designation		
		Fr. C. Rodrigues Institute of Technology, Vashi.	14-09-1998 to Continue	Professor in EXTC		
		ISRO Satellite Centre, Bangalore. (Central Government)	05-05-1998 to 10-09-1998	Scientist/Engineer 'SC'		
		Dr. Babasaheb Ambedkar Technological University, Lonere. (State Government)	14-09-1995 to 02-05-1998	Lecturer in EXTC		
		K.E.S. Engineering	01-11-1990 to 13-09-1995	Lecturer in Electronics		

College, Pen.		Engineering					
8.	Undergraduate / Postgraduate Teaching Experience and Subjects Taught						
	Subjects Taught at UG level						
	Sr.No.	Name of Subject	Semester				
	01	Satellite Communications	VIII				
	02	Speech Processing	VIII				
	03	Discrete Time Signal Processing	VI				
	04	Random Signal Processing	V				
	05	Digital Communication	V				
	06	Signals & Systems	IV				
	Subjects Taught at PG level						
	Sr.No.	Name of Subject	Semester				
	01	Research Methodology	II				
	02	Statistical Signal Processing	I				
	03	Satellite Communication Systems	I				
04	Modern DSP Applications	I					
9.	Research Experience						
10.	Research Funding / Consultancy Services:						
	Sr.No.	Name of the Company	Address	Product	Consulting Service	Consulting Fees	Period
	-	-	-	-	-	-	-
	Research Grants:						
Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project		
01	Royal Academy of Engineering	Grant for collaborative research proposal among FCRI & RIL from India and University of Leeds & PSR Ltd. from UK.	GBP 50000.0 ≈ INR 50.0 lacks	April 2016 to August 2018	Formulation of Hot-Face Refractory of an Entrained Flow Gasifier		
02	University of Mumbai	Minor Research Grant	Rs. 25000/-	2015-16	Smart Classroom		
03	University of Mumbai	Minor Research	Rs. 25000/-	2012-13	Microcontroller and Wireless based		

		Grant			Automated Basketball Scoreboard
04	AICTE, New Delhi	MODROB Grant	Rs. 14.15 lacks	2012-13	Modernization and Removal of Obsolescence for Communication Laboratory
05	AICTE, New Delhi	Seminar Grant	Rs. 2.0 lacks	2012-13	STTP on VLSI and Embedded Systems
Technical Collaboration / Lab Funding with Industries					
Sr.No.	Name of the Funding Organization	Type of Support	Amount (Rs.)	Year	
01	Eduvance	Sponsored following Cypress Semiconductor PSoC Kits: * Three PSoC3 First touch kits * One PSoC3 030 Advanced Kit * One PSoC5 050 Advanced Kit (ARM Based) * One PSoC 4 Pioneer Kit (ARM Based)	~Rs. 50000/-	2014	
02	WEL Lab-IIT Bombay	Donated 14 PIC controller kits	~Rs. 50000/-	2018	
03	WEL Lab-IIT Bombay	Donated total 10 CPLD/Helium boards	~Rs. 40000/-	2017	
04	Internshala, Gurgaon	Three IoT Boards for teachers and students	~Rs. 5000/-	2016	
05	IEEE Bombay Chapter	Sponsored "LOOPS-2015" one day lecture series under SKEP program.	~Rs. 15000/-	2015	
06	Gill Instruments Pvt. Ltd, Bangalore	Two MSP430 Development Kits	~Rs. 5000/-	2015	
11.	Professional Societies Fellowship / Membership: Fellow – Institution of Engineers – India; Fellow - IETE-India; Life Member of Indian Society for Technical Education-India; Life Member of Acoustic Society of India.				
12.	Achievements / Awards / Position: a) Received the Best Paper Award in the "Signal Processing Track" which was sponsored by Fr. Agnel Alumni Association. The paper details are as follows: "N. Nag and M. S. Shah, "Understanding Basis Functions for Vowels based on Non-Negative Matrix Factorization," in Proc. ICNTE 2017 International Conference on Nascent Technologies in Engineering (Venue: Fr CRIT, Navi Mumbai, India), January 27-28, 2017, p. 45." This paper will be available on IEEE Xplore. b) Registration fees, stay, and, one-way air fare were sponsored by the International Speech Communication Association (ISCA), France, for attending and presenting a paper during a reputed International Conference "Interspeech-2007" held at Antwerp, Belgium in the year 2007. c) Received research and other grants worth Rs. 67/- lacks as per the details in Table at sr. no. 10 above.				

	<p>d) Worked as Chairman/Hon. Secretary/Member for the IETE Navi Mumbai Centre.</p> <p>e) Reviewed some of the papers for IEEE and other journals, conferences, etc.</p> <p>f) Approved PhD and ME teacher under the University of Mumbai.</p> <p>g) Invited as "Subject Expert" for staff selection/PhD APS at various institutes.</p> <p>h) Member/Invitee - Board of Studies (past and present) – Dr. BATU, Lonere, KJ Somaiya COE, Vidyavihar, and University of Mumbai.</p> <p>i) Convener/Track-Chair/Session Chair for various conferences/STTPs at National & International level.</p> <p>j) HOD-EXTC department and Dean-Academics at FCRIT, Navi Mumbai.</p> <p>k) Worked as a Visiting faculty at KJSCOE-Vidyavihar, and delivered more than 40-invited lectures at various institutes.</p>
<p>13.</p>	<p>Projects guided in UG/PG level</p> <p>PhD: Currently supervising 5 Research Scholars in the department.</p> <p>PG:</p> <ol style="list-style-type: none"> 1. Ms. Kshama Patel, "Laboratory Experiments for Understanding Effects of RF Impairments on Received Signal in Satellite Link," 2016-17, completed. 2. Ms. Swathi Pillai, "Wavelet based Speech Enhancement," 2016-17, under progress. 3. Ms. Nilashree S. Wankhede, "Vocal Tract Shape Estimation," 2012-13. 4. Ms. Smita Hande, "Pitch Estimation," 2012-13. 5. Ms. Ashwini Patil, "Comparison of Vocal Tract Shape Estimation Techniques Based on Formant Frequencies, Autocorrelation, Covariance, and Lattice," 2013-14. 6. Ms. Sreeja Nair, "Digit Recognition Techniques," 2014-15. 7. Ms. Safya Bhore, "Estimation of Formants," 2014-15. 8. Ms. GITU Geevarghese, "Spectral Subtraction Techniques," 2014-15. <p>UG: Till now 10 UG projects are guided.</p>
<p>14.</p>	<p>Short Term Training Programmes attended:</p> <p>a) Winter/Summer schools</p> <ol style="list-style-type: none"> 1. AICTE sponsored CEP/STTP/QIP course on "Time Series Modeling & Spectral Analysis-Theory & Applications", during July 12-17, 2010 at IIT Madras, Chennai, India. 2. Winter school in "Speech & Audio Processing (WiSSAP 2010)", during January 12-15, 2010 at IIT Bombay, Mumbai. 3. AICTE sponsored CEP/STTP/QIP course on "Advanced Wavelet Transforms: Theory & Applications", during July 06-11, 2009 at IIT Madras, Chennai, India. 4. Short-term training program (summer school) on "Digital Signal and Image Processing", during June 5-17, 2000 at Shri Guru Gobind Singhji COE and Technology, Nanded, India. 5. Short-term training program (summer school) on "Microprocessors in Instrumentation", during June 17-28, 1996 at Shri Guru Gobind Singhji COE and Technology, Nanded, India. 6. Short-term training program (summer school) on "Personal, Multimedia, and Broadband Communications and Networks", during June 19-30, 1995 at the Indian Institute of Technology Kharagpur, India.

b) Workshop/STTP/Conferences:

- 1) Attended Phase-1 (Webinar) on “Workshop on Outcome Based Accreditation” on 03-02-2014 and will be attending Phase-2 of the same during February 15-17, 2014 at SPIT, Andheri, Mumbai.
- 2) Attended an event organized by the *IEEE Geoscience & Remote Sensing Society (GRSS)*, Bombay section, on “Remote Sensing & GIS in Rural Agricultural System” on September 22-23, 2017 at DBIT, Mumbai.
- 3) Attended a *National Conference on Indian Engineering Educators and Administrators Conference (IEEAC-2017)*, during July 26-28, 2017 organized by Terna Engineering College, Navi Mumbai.
- 4) Attended India-UK Industry-Academia Symposium on ‘Working in Systems Not Silos: Driving Growth & Innovation through Industry-Academia Partnership’ (Organized by DST-CPR-PU, RAE-UK, CIPAM, DIPP, Min. of Commerce & Industry, Gol, Newton-Bhabha Fund, British High Commission. Venue: Panjab University, Chandigarh), April 16-17, 2018.
- 5) Attended following International conferences/symposiums:
 - a. Attended India-UK Industry-Academia Symposium on ‘Working in Systems Not Silos: Driving Growth & Innovation through Industry-Academia Partnership’ (Organized by DST-CPR-PU, RAE-UK, CIPAM, DIPP, Min. of Commerce & Industry, Gol, Newton-Bhabha Fund, British High Commission. Venue: Panjab University, Chandigarh), April 16-17, 2018.
 - b. Attended fifth International Conference on Transformations in Engineering Education (ICTIEE-2018) organized by Bennett University, Greater Noida, in association with Indo Universal Collaboration for Engineering Education (IUCEE) during January 4-6, 2018.
 - c. Attended EXTC Track during International Conference “ICNTE-2017” organized by Fr. CRIT, Navi Mumbai on January 27-28, 2017.
 - d. Attended India-UK Tech Summit jointly organized by Confederation of Indian Industries (CII), Government of India, and Government of UK, from 7-9 November, 2016 at New Delhi.
 - e. Attended 3rd World Summit on Accreditation organized by NBA, New Delhi during March 18-20, 2016 at Gurgaon (Delhi NCR).
 - f. Attended & presented a paper “Solar System Exploration: A Review,” in *8th International Conference on Microwaves, Antennas, Propagation & Remote Sensing (ICMARS-2012)* (Jodhpur, India), December 11-15, 2012.
 - g. Attended & presented a paper in *International Symposium on Frontiers of Research on Speech and Music (FRSM-2012)*, January 18-20, 2012, Venue KIIT College of Engineering, Gurgaon, India.
 - h. Attended and presented a paper in an international conference on “*Microwaves, Antennas, Propagation & Remote Sensing (ICMARS-2010)*” at Jodhpur, India in Dec 14-17, 2010.
 - i. Attended and presented a paper in an international symposium on “*Frontiers of Research on Speech and Music*” at Kolkata, India in 2008.
 - j. Attended and presented a paper in an international conference on “Interspeech-2007” at Antwerp, Belgium in**

	<p>2007.</p> <ul style="list-style-type: none"> k. Attended and presented a paper in an international conference on “Systemics, Cybernetics, and Informatics” at Pentagram Research Centre Pvt. Ltd., Hyderabad, India in 2004. l. Attended Apex Forum on “E-Services” organized by the IETE Mumbai Center at Hotel Oasis on August 09, 2014. m. Attended a User Conference on “Effective Utilization of NPTEL” at IIT Madras on September 20, 2013. n. Attended IETE West Zone Seminar on “Technological Convergence” at NMSA, Vashi on May 5-6, 2012. o. Attended National Conference on Expanding Horizon in Computer, Information Technology, Telecommunications and Electronics (EXCITE-2012), (IETE Chennai Center, Chennai, India), April 20-21, 2012. Venue: Loyola ICAM College of Engineering and Technology, Chennai. p. Attended 52nd Annual Technical Convention on “Technology & Terror – Role of ICT in War Against Terror” organized by IETE Mumbai Center during September 26-27, 2009 at Mumbai. q. Workshop on “Practical and Field Orientation Through Training in Satellite Communications”, on Jan 22, 2008 at Institute of Satellite Telecom Pvt. Ltd., Pune, India. r. Symposium and workshop on “Embedded System Application in Electronics and Telecommunication”, during March 26-27, 2004 at The Institution of Electronics & Telecommunication Engineers, Navi Mumbai Sub-centre, Vashi, India. s. Workshop on “Spoken Language Processing”, during Jan 9-11, 2003 at Tata Institute of Fundamental Research, Mumbai, India. t. Symposium on “Frontiers of Research on Speech and Music”, during Feb 15-16, 2003 at Indian Institute of Technology Kanpur, India.
<p>15.</p>	<p>List of Journal Papers Published:</p> <ul style="list-style-type: none"> ➤ Refereed Journal: <ol style="list-style-type: none"> 1. P. C. Pandey and M. S. Shah, "Estimation of place of articulation during stop closures of vowel-consonant-vowel syllables," <i>IEEE Trans. Audio, Speech, Language Process.</i>, vol. 17, no. 2, pp. 277-286, February, 2009. 2. M. S. Shah and P. C. Pandey, "Interpolation of vocal-tract shape during stop closures from transition segments in vowel-consonant-vowel syllables," <i>J. Acoust. Soc. Am.</i>, vol. 120, no. 5, pt. 2, p. 3349, 2006. ➤ Journals with ISBN/ISSN numbers <ol style="list-style-type: none"> 1. Kshama Patel and M. S. Shah, “Laboratory Experiments for Understanding Effects of RF Impairments on Received Signal in Satellite Link,” <i>International Journal of Electronics, Electrical and Computational System (IJECS)</i> (ISSN 2348-117X), Vol. 6, Issue 5, pp. 370-395, May 2017. 2. Joel D’souza, Steffy Simon, Anuja Padwal, Jenila Hendry, and Milind Shah, “Sound Level Meter,” <i>International Journal of Engineering</i>

Technology Science and Research (IJETSR) (ISSN 2394 – 3386), Vol. 4, Issue 5, pp. 659-665, May 2017.

3. Veena S., N. S. Wankhede, and M. S. Shah, "Study of Vocal Tract Shape Estimation Techniques for Children," *Procedia Computer Science* 79 (2016), Published by Elsevier B.V. (This is an open access article under the CC BY-NC-ND license), *Proc. 7th International Conference on Communication, Computing and Virtualization 2016*, pp. 270-277, 2016.
4. Veena S., N. S. Wankhede, and M. S. Shah, "Study of Pitch Detection Methods," *International Journal for Scientific Research and Development (IJSRD)* (ISSN: 2321-0613), National Conference on Technological Advancement and Automatization in Engineering, pp. 405-410, January-2016.
5. G. Geevarghese and M. S. Shah, "Speech Enhancement Using Basic and Modified Spectral Subtraction," *International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE)* (ISSN: 2278-909X), vol. 4, no. 12, pp. 2868-2873, Dec. 2015.
6. S. Bhore and M. S. Shah, "A comparative study of formant estimation," *IJARECE* (ISSN: 2278-909X), vol. 4, no. 12, pp. 2879-2882, Dec. 2015.
7. S. R. Nair and M. S. Shah, "Digit recognition based on Euclidean and DTW," *International Journal of Computer Applications (IJCA)* (ISSN 0975-8887), Vol. 125, No. 6, September 2015), pp. 15-18.
8. S. Bhore and M. S. Shah, "Comparison of Formant Estimation Techniques," *International Journal of Electronics, Communication and Soft Computing Science and Engineering (IJECSCE)* (ISSN 2277-9477), Special Issue – IETE Mid Term Symposium on "Impact of Technology on Skill Development" MTS-2015 at Amravati, (April 11-12, 2015), pp. 127-129.
9. G. Geevarghese and M. S. Shah, "Spectral Subtraction for Enhancement of Speech Quality," *International Journal of Electronics, Communication and Soft Computing Science and Engineering (IJECSCE)* (ISSN 2277-9477), Special Issue – IETE Mid Term Symposium on "Impact of Technology on Skill Development" MTS-2015 at Amravati, (April 11-12, 2015), pp. 123-126.
10. S. R. Nair and M. S. Shah, "Comparison of Isolated Digit Recognition Techniques based on Feature Extraction," *International Journal of Electronics, Communication and Soft Computing Science and Engineering (IJECSCE)* (ISSN 2277-9477), Special Issue – IETE Mid Term Symposium on "Impact of Technology on Skill Development" MTS-2015 at Amravati, (April 11-12, 2015), pp. 272-275.
11. S. Bhore and M. S. Shah, "Speech Perception: A Review," *International Journal of Engineering Research & Technology (IJERT)* (ISSN 2278 0181), ICNTE-2015 Conference (January-2015) Proceedings, pp. 117-120.
12. G. Geevarghese and M. S. Shah, "Speech Reverberation: A Review," *International Journal of Engineering Research & Technology (IJERT)* (ISSN 2278 0181), ICNTE-2015 Conference (January-2015) Proceedings, pp. 97-100.
13. S. R. Nair and M. S. Shah, "Applications of wavelet transform in

	<p>speech processing: A review," <i>International Journal of Engineering Research & Technology (IJERT) (ISSN 2278 0181)</i>, ICNTE-2015 Conference (January-2015) Proceedings, pp. 49-53.</p> <p>14. N. S. Wankhede and M. S. Shah, "Validation of optimum algorithm parameters required to estimate vocal tract shape for children using LPC analysis," <i>Open Access Library Journal</i>, vol. 1, pp. 1-10, July 2014.</p>
16.	<p>List of Papers Published in National and International Conferences:</p> <ul style="list-style-type: none"> • International Conferences (Full paper) <ol style="list-style-type: none"> 1. M. S. Shah, "Formulation of hot face refractory of an entrained flow gasifier," in <i>India-UK Industry-Academia Symposium on 'Working in Systems not Silos: Driving Growth & Innovation through Industry-Academia Partnership'</i> (Organized by DST-CPR-PU, RAE-UK, CIPAM, DIPP, Min. of Commerce & Industry, GoI, Newton-Bhabha Fund, British High Commission. Venue: Panjab University, Chandigarh), April 16-17, 2018 (poster presentation). 2. N. Nag and M. S. Shah, "Understanding Basis Functions for Vowels based on Non-negative Matrix Factorization," in <i>Proc. ICNTE 2017 International Conference on Nascent Technologies in Engineering</i> (Venue: Fr CRIT, Navi Mumbai, India), January 27-28, 2017, p. 45. Above paper is available on IEEE Xplore: DOI: 10.1109/ICNTE.2017.7947946, Electronic ISBN: 978-1-5090-2794-1. 3. K. Patel and M. S. Shah, "Laboratory Experiments for Understanding Effects of RF Impairments on Received Signal in Satellite Link," in <i>Proc. ICNTE 2017 International Conference on Nascent Technologies in Engineering</i> (Venue: Fr CRIT, Navi Mumbai, India), January 27-28, 2017, p. 54. Above paper is available on IEEE Xplore: DOI: 10.1109/ICNTE.2017.7947956, Electronic ISBN: 978-1-5090-2794-1. 4. A. S. Patil and M. S. Shah, "Comparison of Vocal Tract Shape Estimation Techniques Based on Formant frequencies Autocorrelation Covariance and Lattice," in <i>Proc. ICNTE 2015 International Conference on Nascent Technologies in Engineering</i> (Venue: Fr CRIT, Navi Mumbai, India), January 09-10, 2015. Available on IEEE Xplore, DOI: 10.1109/ICNTE.2015.7029934, Electronic ISBN: 978-1-4799-7263-0. 5. A. S. Patil and M. S. Shah, "Comparison of Vocal Tract Shape Estimation Techniques Based on Formant frequencies Autocorrelation Covariance and Lattice," in <i>Proc. ICNTE 2015 International Conference on Nascent Technologies in Engineering</i> (Venue: Fr CRIT, Navi Mumbai, India), January 09-10, 2015, available on IEEE Xplore, Print ISBN: 978-1-4799-7261-6, pp. 1-6. 6. N. S. Wankhede and M. S. Shah, "Investigation on Optimum Parameters for LPC Based Vocal Tract Shape Estimation," in <i>Proc. IEEE 2013 International Conference on Emerging Trends in Communication, Control, Signal Processing and Computing Applications (C2SPCA)</i> (IEEE Catalog Number CFP13SPF-ART ISBN Number 978-1-4799-1085-4)(Venue: The Oxford College of

Engineering, Bangalore, India), October 10-11, 2013.

7. S. S. Hande and M. S. Shah, "Pitch Estimation," in Proc. International Conference on Computational and Networking Technologies (ICCNT) (ISBN No.: 978-93-83060-09-2) (Venue: Hotel Sadanand, Pune), July 28, 2013, pp. 58-63.
8. S. S. Hande and M. S. Shah, "Applications of Pitch Estimation: A Review," in Proc. International Conference on Electrical and Electronics Engineering (ICEEE-2013) (Interscience Open Access Journal, Goa, India), January 27, 2013, pp. 47-51.
9. M. S. Shah, "Solar System Exploration: A Review," in Proc./Souvenir 8th International Conference on Microwaves, Antennas, Propagation & Remote Sensing (ICMARS-2012) (Jodhpur, India), December 11-15, 2012.
10. M. S. Shah, "Speech-Training Aids for Hearing Impaired," in Proc. International Symposium on Frontiers of Research on Speech and Music (FRSM-2012), January 18-20, 2012, Venue KIIT College of Engineering, Gurgaon, India.
11. M. S. Shah, "Space Debris and Its Measurement Based on Remote Sensing," in Souvenir 6th International Conference on Microwaves, Antennas, Propagation & Remote Sensing (ICMARS-2010) (Jodhpur, India), December 14-17, 2010, p. 91.
12. M. S. Shah and P. C. Pandey, "Estimation of place of constriction during stop closures by bivariate surface modeling," in Proc. Int. Symposium on Frontiers of Research on Speech and Music (Kolkata, India), 2008, pp. 161-166.
13. M. S. Shah and P. C. Pandey, "Surface modeling of vocal tract shapes in transition segments of vowel-consonant-vowel syllables for estimation of place of closure," in Proc. 19th Int. Congress on Acoustics (Madrid, Spain), 2007, pp. CAS-03-011-1-CAS-03-011-5.
14. **M. S. Shah and P. C. Pandey, "Estimation of place of articulation in stop consonants for visual feedback," in Proc. Int. Conf. Interspeech 2007-Eurospeech (Antwerp, Belgium), Aug. 2007, pp. 2477-2480.**
15. M. S. Shah and P. C. Pandey, "Estimation of vocal tract shape for VCV syllables for a speech training aid," in Proc. 27th Int. Conf. IEEE Engg. Med. Biol. Soc. (Shanghai, China), 2005, pp. 6642-6645.
16. M. S. Shah and P. C. Pandey, "Estimation of vocal tract shape during stop closures," in Proc. Int. Conf. on Systemics, Cybernetics, and Informatics (Hyderabad, India), 2004, pp. 304-309.

• **National Conferences (Full paper)**

1. M. S. Shah and A. S. Patil, "Speech Recognition," in Proc. National Conference on Signal Image Technology & Applied Communication System (SITACS – 2013) (Venue: Maharashtra Institute of Technology, Pune, India), December 19-20, 2013, p. 10.
2. N. S. Wankhede and M. S. Shah, "Speech Training and Speech Signal Processing for the Hearing Impaired Individuals," in Proc. National Conference on Recent Advances in Computer Engineering (RACE-2013) (Venue: Modern Education Society's COE, Pune, India), March 15-16, 2013, pp. 270-275.
3. M. S. Shah, "Space Shuttle Columbia Disaster: A Review," in Proc. National Conference on Expanding Horizon in Computer, Information

	<p><i>Technology, Telecommunications and Electronics (EXCITE-2012)</i>, (IETE Chennai Center, Chennai, India), April 20-21, 2012. Venue: Loyola ICAM College of Engineering and Technology, Chennai.</p> <ol style="list-style-type: none"> 4. K. S. Nataraj, Jagbandhu, P. C. Pandey, and M. S. Shah, "Improving the Consistency of Vocal Tract Shape Estimation," in Proc. <i>17th National Conference on Communications (NCC-2011)</i> (IISc Bangalore, India), January 28-30, 2011, Paper No. Sp Pr. II, P4. 5. S. Pai, M. Shah, Y. Chandurkar, J. Basu, R. Vidyalskmi, N. Londhe, and A. Mhatre, "Wireless control of microcontroller based display systems for basketball game," in Proc. <i>National Conf. on Wireless Communication and Networking</i> (L & T Institute of Technology, Powai, Mumbai, India), January 9-10, 2009, pp. 131-137. 6. M. S. Shah, Pushpa U. S., and S. Chopde, "Pitch estimation based on modified autocorrelation method," in Proc. <i>National Conf. on Speech, Image, and Video Processing</i> (Shegaon, India), 2008. 7. S. Pai, M. Shah, Y. Chandurkar, and R. Moon, "Microcontroller based display systems for basketball game," in Proc. <i>National Conf. on Embedded Control, Computing, and Communication (I²IT, Pune, India)</i>, September 19-21, 2007, pp. 1-5. 8. M. S. Shah and P. C. Pandey, "Areagram display for investigating the estimation of vocal tract shape for a speech training aid," in Proc. <i>Symposium on Frontiers of Research on Speech and Music</i> (Kanpur, India), 2003, pp. 121-124. 9. M. S. Shah, V. Sethia, and P. C. Pandey, "Vocal tract and lip shape estimation," poster presentation in <i>Acedemia Industry Meet (AIM 2003)</i> (IIT Bombay, Mumbai, India), June 2003. 10. Vijay J., Umesh T., M. R. Shawn, Dipak T., and M. S. Shah, "Pitch estimation," in Proc. <i>Symposium on A Guide Through the Maze of Telecommunication</i> (Fr. CRIT, Vashi, India), 2003, pp. 44-46. 11. Y. P. Dedhiya, M. S. Dhond, K. U. Patel, A. K. Awale, and M. S. Shah, "8051 microcontroller based multipurpose display," poster presentation in Proc. <i>Symposium on A Guide Through the Maze of Telecommunication</i> (Fr. CRIT, Vashi, India), 2003, pp. 103. 12. V. K. Madan, M. S. Shah, B. R. Bairi, and K. R. Gopalakrishnan, "Haar transforms and their application for the processing of nuclear spectra," in Proc. <i>National Symposium on Advances in Control and Instrumentation</i> (BARC, Mumbai, India), March 16-18, 1994, pp. 103.
17.	Books/Reports/General articles etc. Nil
18.	Invited Lectures in FDP/ STTP: <ol style="list-style-type: none"> 1. Invited to deliver an expert talk on the topic "Speech Training Aids & LPC based Vocal Tract Shape Estimation," for the third & final year students of EXTC department at DJ Sanghavi COE, Mumbai, on February 20, 2018. 2. Invited to deliver an expert talk on the topic "Mathematical Modelling of Vocal Tract for Speech Processing," during Two Days State Level Workshop on 'Mathematical Modeling in Engineering Discipline' organized by Modern College of Engineering, Pune, in association with Quality Improvement Program of Savitribai Phule Pune University and technically sponsored by IEEE SPS Chapter-Pune section on 23-01-2018. 3. Invited to deliver an expert talk on the topic "Research in Vocal Tract

Shape Estimation,” for the final year students of EXTC department at DBIT, Mumbai, on March 15, 2017.

4. Invited as a session chair during 4th National Conference on “Advances in Technology and Management (NCATM-2017)” held on March 23, 2017 at ACPCE, Navi Mumbai.
5. Invited to deliver an expert talk during STTP on “Research Opportunities in Speech and Language Processing”, organized by Xavier Institute of Engineering, Mahim, Mumbai, on January 10, 2017. The lecture was delivered on the topic “Vocal Tract Shape Estimation”.
6. Invited to deliver an expert talk during Faculty Development Program on the topic “Outcome based NBA Process and Attainment,” organized by LTCOE, Navi Mumbai, on November 19, 2016.
7. Invited to deliver an expert talk on “Vocal Tract Modelling and Scope of Research in the field of Speech Processing,” at DBIT, Kurla, Mumbai on March 15, 2016.
8. Invited to deliver an expert talk on “Homomorphic and LPC based Speech Processing,” at LTCOE, Koperkhairane, Navi Mumbai on March 14, 2016.
9. Invited to deliver an expert talk on “Speech Production System,” during two days National Level Workshop on “Recent Trends in Speech and Biomedical Signal Processing” at Modern College of Engineering, Pune on January 29, 2016.
10. Invited to deliver an expert talk on “A Seminar for Understanding the Nuances of Accreditation,” jointly organized by Modern College of Engineering, Pune, and IEEE Pune Section on December 08, 2015.
11. Invited to deliver an expert talk on “Speech Processing,” at Usha Mittal Institute of Technology, SNDT Women’s University, Mumbai on October 31, 2015.
12. Invited to deliver an expert talk on “Vocal Tract Modelling,” during one week ISTE approved STTP on “Speech, Music, Processing and Machine Learning: Fundamentals, Applications and Trends” at KJSCOE, Vidyavihar, Mumbai on December 31, 2014.
13. Invited as a session chair for “Signal & Image Processing Session” during “International Conference on Advances in Communication & Computing Technologies-2014 (ICACACT-2014)” held on August 11, 2014 at PVPPCOE, Mumbai.
14. Invited to deliver an expert talk on “Speech Processing (Vocal Tract Shape),” during one week STTP on “Research Domains in Electronics & Telecommunication Engineering” at VESIT, Chembur, Mumbai on July 08, 2014.
15. Invited to judge an intercollegiate technical paper presentation contest called “Encore-2014” organized by DBIT, Mumbai, on April 08, 2014.
16. Invited to conduct a workshop for faculty members on “PO Design and Measurement” and “Articulation of COs” during FDP on “Accreditation and Quality Assurance” held on April 4-5, 2014, at Fr. CRCR, Bandra, Mumbai.
17. Invited as a session chair during International Conference on Computer, Electrical, and Electronics Engineering (IETE Cynosure 2013) under the banner of the IETE Navi Mumbai Centre, held on December 26, 2013, at Dr. BATU, Lonere.
18. Invited as a session chair for “Signal and Image Processing” related

papers during International Conference on Advances in Communication and Computing Technologies held on August 10-11, 2013, at PVPPCOE, Mumbai.

19. Invited as a session chair during IET PATW 2013 presentation event organized by KJSIE & IT, Sion, Mumbai, on April 02, 2013.
20. Delivered a lecture on "Satellite Link Budget Analysis," at BVPCOE, Navi Mumbai on March 19, 2013.
21. Invited as a session chair during 2nd National Conference on "Recent trends in wired & wireless communication (NCRTWWC'2013)," organized by Department of EXTC, SIES Graduate School of Technology, Nerul, Navi Mumbai, on March 15, 2013.
22. Invited as a session chair during National Conference on "Emerging Trends in Electronics Engineering & Technology (NCEET-2013)", organized by A. C. Patil COE, Kharghar, on Feb 23, 2013.
23. Delivered a lecture on "Introduction to Research," to the faculty members of SIESGST, Nerul, Navi Mumbai on January 04, 2013.
24. Delivered a lecture on "Introduction to Speech Processing," during STTP on NGN at VESIT, Chembur on July 09, 2012.
25. Delivered a lecture on "Satellite Communications" at YTCOE & Management, Karjat on March 12, 2012.
26. Delivered a lecture during workshop on "Speech Processing Techniques" at KJSIEIT, Sion on January 07, 2012.
27. Delivered a lecture on "Introduction to Satellite Communications," during Inauguration Ceremony of the IETE Students' Forum (ISF) at Dr. Babasaheb Ambedkar Technological University, Lonere, on February, 05, 2011.
28. Invited as a session chair during National Conference on "Emerging Technologies & Applications in Engineering & Sciences", organized by Saraswati College of Engineering, Kharghar, on Feb 3-4, 2011.
29. Delivered a lecture on "Writing a Journal Paper – A Case Study," for the teaching staff of K. J. Somaiya College of Engineering, Vidyavihar, on January, 29, 2011.
30. Appointed as Visiting Faculty in the department of Electronics & Telecommunication" for the PG course at K. J. Somaiya College of Engineering, Vidyavihar, Mumbai for the AY 2010-11.
31. Delivered a lecture organized by the IETE Navi Mumbai Center on "Satellite Communications," for the students of Electronics Engineering Department of A. C. Patil College of Engineering, Kharghar, on August 16, 2010.
32. Delivered a lecture on "Speech Processing," for the faculty members from various colleges during Orientation Program organized by Terna Engineering College, Nerul, on August 03, 2010.
33. Delivered a lecture & conducted laboratory sessions on "DSP & Speech Processing," for the final year students of Electronics & Electronics & Telecommunication Engineering department of Kavikulguru Institute of Technology & Science (KITS), Ramtek, Nagpur, on February, 02, 2010.
34. Chaired a session during a National Conference on "Recent Trends in Engineering & Technology – Zenith-2009" organized by Agnel Polytechnic, Vashi, Navi Mumbai (October 30-31, 2009).
35. Delivered a lecture on "Technical Paper Writing," for the final year students of Electronics & Telecommunication Engineering department

	<p>of Fr. C. Rodrigues Institute of Technology, Vashi, on September, 10, 2009.</p> <p>36. Delivered a lecture on “Satellites and Space Debris,” during Upgradation Ceremony of the IETE Navi Mumbai Sub Centre at the Hotel Abbott, Vashi, Navi Mumbai, on February, 21, 2009.</p> <p>37. Delivered a lecture on “Satellite Systems,” during ISTE approved STTP on “Wireless Communication & Mobile Computing” at the Don Bosco Institute of Technology, Mumbai, on December, 2, 2008.</p> <p>38. Delivered a lecture on “Application of Speech Processing for the Hearing Impaired Persons,” at the Pune Centre of the Institution of Electronics & Telecommunication Engineers, on May, 17, 2008 (World Telecom Day).</p> <p>39. Delivered a lecture on “Application of Matlab in Signals & Systems,” during ISTE sponsored STTP at the EE Dept. of Fr. C. Rodrigues Institute of Technology, Vashi, on Jan, 8, 2008.</p> <p>40. Conducted laboratory sessions on “Speech Processing with Matlab,” during ISTE sponsored STTP at the Extc Dept. of Fr. C. Rodrigues Institute of Technology, Vashi, during Feb 26 to March 2, 2007.</p> <p>41. Delivered a lecture on “Technical Paper Presentation,” for the IEEE Student Chapter of Fr. C. Rodrigues Institute of Technology, Vashi, on September, 24, 2007.</p>
19.	<p>International Conference Technical Program Committee Member / Reviewer & Other Positions held:</p> <ul style="list-style-type: none"> • Invited as a “Subject Expert” on the “Selection Committee” to recommend suitable candidates for the post of “Professor/Associate Professor/Assistant Professor” in EXTC Department at St. Francis Institute of Technology, Mumbai, on 14-05-2017 & SPIT, Mumbai, on 03-10-2017. • Reviewed few journal papers for IEEE and Int. J. of Biomedical Engineering and Technology. • Member of the ‘Subject Board Meeting’ at K. J. Somaiya College of Engineering, Vidyavihar, Mumbai for drafting the UG / PG syllabus in Electronics & Telecommunication Engineering Department (from the AY 2015-16 onwards). • Invited as a Panel Member for conducting personal interviews for admission to the PhD at SVKM’s NMIMS, Mukesh Patel School of Technology Management & Engineering, Mumbai on 04-05-2015. • University of Mumbai - Recognized as PhD Teacher in Electronics & Telecommunication Engineering with effect from March 05, 2015. • Invited as a Chief Guest during inauguration function of the IETE Students’ Forum (ISF) by EXTC Department of Anjuman-I-Islam’s Kalsekar Technical Campus, New Panvel, Navi Mumbai on March 16, 2015 • Invited by the University of Mumbai for drafting revised syllabus of SS and DSP for Mechatronics branch in January 2015. • Invited as a Chief Guest during inauguration function of the IETE Students’ Forum (ISF) by EXTC Department of LTCOE, Navi Mumbai on August 12, 2014. • Elected as a Chairman of the IETE Navi Mumbai Center from July 2014 onwards for the next 2-years. • External Member of the Thesis Advisory Committee (TAC) at SVKM’s NMIMS MPSTME from 12-03-2014 onwards. • Invited by University of Pune (PES’s Modern Engg. College, Pune) for

	<p>conducting ME Project examination on 14-12-2013.</p> <ul style="list-style-type: none"> • Invited at DBIT, Mumbai, for the academic audit of EXTC Courses on November 22-23, 2013. • Invited by the University of Mumbai for drafting revised syllabus for EXTC in 2012-13 and 2013-14 + Control Room Duty + Result Moderation Committee. • University of Mumbai - Recognized as ME Teacher in Electronics & Telecommunication Engineering with effect from May 02, 2012. • Invited at EE Dept of IIT Bombay for Conducting M.Tech. Dissertation Viva in June-2012. • Invited by the University of Mumbai for drafting revised syllabus (signal processing related subjects) for ME EXTC in April-2012. • Member of Technical Program Committee at SPIT, Andheri, for the International Conference on Communication, Information and Computing Technology (ICCICT-2012) to be held during October 19-20, 2012. • Member of the Executive Council of the IETE Navi Mumbai Center for the year 2012-2014. • Appointed as a Chairperson for the Vigilance Squad for the year 2010-11 by the University of Mumbai. • Member of the Executive Council of the IETE Navi Mumbai Center for the year 2010-2012. • Appointed as Visiting Faculty in the department of Electronics & Telecommunication” for the PG course at K. J. Somaiya College of Engineering, Vidyavihar, Mumbai for the AY 2010-11.
20.	Patents: Nil