


ACADEMIC PROFILE

Name	Dr. Leena Mary		
Designation	Professor		
Office Address	Professor & Head, Department of Electronics & Communication Engg. Government Engineering College, Painavu, Idukki		
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Academic Qualifications			
Degree	College	University	
Ph. D	IIT Madras	IIT Madras	
M. Tech	CET Thiruvananthapuram	Kerala	
B. Tech	MIT	Mangalore	
Career History			
From - To	Name of the Post	Institution	Category
1991-2000	Asst.Professor	CET, RIT	
2000-2012	Assoc Professor	RIT, GEC Palakkad	
2012 till date	Professor	GEC Bartonhill, RIT, GEC Idukki	
Areas of Academic Interest			
Speech Processing			
Membership in Academic Bodies			
ISTE, IEEE			
Major Academic Publications			
1. Leena Mary, Extraction and representation of prosody for speaker, speech, and language recognition, Book, Springer briefs in Speech Technology, 2012, ISBN 978-14614-1158-1.			

2. Leena Mary, Prosodic features for speaker recognition, Book Chapter 13, Speaker Forensics, 2011, Springer Netherlands
3. Leena Mary, Anish Babu K. K. and Aju Joseph, Analysis and detection of mimicked speech based on prosodic features, International Journal of Speech Technology, Volume 15, Number 3 (2012), 407-417, DOI: 10.1007/s10772-012-9163-3, Springer Netherlands 2012.
4. Leena Mary and B. Yegnanarayana, "Extraction and representation of prosodic features for language and speaker recognition", Speech communication (Elseviers),vol.50,pp. 782-796, 2008
5. Leena Mary, Anish Babu , Aju Joseph, Gibin M George, "Evaluation of mimicked speech using prosodic features", IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2013), Vancouver, Canada, May 2013.
6. Jubin James Thennattil and Leena Mary, "Phonetic Engine for continuous speech in Malayalam", IETE Journal of Research, <http://dx.doi.org/10.1080/03772063.2016.1162673>, Apr. 2016.

Attendance in Conferences / Seminars / Workshops

Participation in Faculty Development Programmes

Course	University/ Institute	Duration

Guidance / Supervision of MTech or PhD

PhD guidance ongoing - 6 nos.

1. Sreehari Raveendran - "Forensic speaker recognition"- Kerala University
2. Sreekumar G - "Direction of arrival estimation of compressed sampled signals using array processing techniques"- M. G. University
3. Anu George - "Automatic language identification for Indian languages using phonotactics and prosody" -M. G. University
4. Deekshitha G.- "Audio search techniques"-APJ Abdul Kalam Technological University
5. Starlet Ben Alex- "Multilevel features for recognition applications of speech"- APJ Abdul Kalam Technological University
6. Anuja Prasad - " Traffic video analysis using machine learning techniques" - APJ Abdul Kalam Technological University

M. Tech Thesis Guided - 18 nos.

Sponsored Research Projects Undertaken

Title of the project	Funding agency	Amount	
Mimicked Speech on Automatic Speaker Verification	Kerala State Council for Science, Technology and Environment (KSCSTE) 2011-14	5.975 Lakhs (PI) (Completed and submitted)	UC

Establishment of Advanced Signal Processing Research Lab (First phase)	CERD, Govt of Kerala 2011-2013	Rs. 20 lakhs (PI) (Completed and UC submitted)	UC
Development of prosodically guided phonetic engine	Department of Electronics Information Technology, Govt. of India. 2012-15	50.6 Lakhs (PI) (Completed and UC submitted)	UC
Study of vehicle sound signature for characterization of heterogeneous traffic	AICTE- RPS 2012-14	10 Lakhs (Co-PI) (Completed)	
Extension of Advanced Signal Processing Research Lab	CERD, Govt of Kerala 2014-2016	Rs. 30 lakhs (PI) (ongoing)	
Forensic Speaker Recognition- Coping with channel mismatch, noise, voice disguise and VoIP	Kerala State Council for Science, Technology and Environment (KSCSTE) 2015-2017	15 lakhs (PI) (ongoing)	
Audio visual cues for speed estimation and vehicle classification	CTransE (Center for Excellence in Transportation), NIT Thiruchirappally 2014-2016	5.1 lakhs (Co-PI) (ongoing)	
A System for Traffic Data Collection, Vehicle Classification and Head Light Violation Detection using audio visual cues	TRC, CET Thiruvananthapuram	10 lakhs (sanctioned)	
Development of Speech Recognition Based Audio Search and Learning Tools in Malayalam	CERD, Govt of Kerala 2016-2018	15 lakhs (PI) (ongoing)	
Automation of Malayalam Articulation Test using Automatic Speech Recognition Techniques	All India Institute of Speech and Hearing, Mysore	5 lakhs (sanctioned)	

Organization of Academic Conferences / Workshops / Designing Courses

Organized more than ten short term courses/workshops for the benefit of teachers Three courses (sponsored by DTE, Govt. of Kerala and TEQIP Phase II)

Invited Lectures / Chairing / Resource Person / Keynote Address

Delivered technical talk/keynote address during various short term training/conferences for researchers in the area of speech processing

Awards/Achievements

1. Recipient of "Researcher of the year award 2015" instituted by A. P. J. Abdul Kalam

Technological University (KTU) among its affiliated institutes.

2. Best paper award for the paper titled "Multiple complementary features for voice activity detection" authored by Ginsha Elizabeth George and Leena Mary in International Conference on Emerging Research Areas, Kottayam, India, April 2011 (AICERA 2011) organized by Amaljyothi College of Engineering, Kanjirappally

DECLARATION

I declare that the foregoing information is true to the best of my knowledge and belief.

NAME: Leena Mary

Date: 18/08/2017

Digital Signature