Student Projects at ADSPR Lab

Ongoing Ph. D Work

Sl. No.	Title	Name of Student	Supervisor
1	Forensic Speaker Recognition	Sreehari R.	Dr.Leena Mary
2	Array Signal Processing and Compressive Sensing	SreekumarG.	
3	Audio Search	Deekshitha G. (Registration in progress)	
4	Automatic Language Identification	Anu George (Registration in progress)	

M Tech Mini Projects

Sl. No.	Title	Name of Student	Supervisor
1	Pairwise language discrimination using phonotactic discrimination	Lekshmi M Nair	Dr.Leena Mary
2	Study of the effects of VoIP on prosodic features for speaker verification	Athira Jess Cherian	Dr.Leena Mary

3	A label based coarse audio search for content based audio retrieval	Ben P Babu	Dr.Leena Mary
4	Vehicle detection using audio-visual cues	PiyushPurushothaman	Dr.Leena Mary, Mr. Rajeev Rajan
5	Comparative study of single pitch extraction algorithms in noisy environment	Boney Thomas	Mr. Rajeev Rajan
6	Investigation of dimensionality reduction methods in image processing applications	Ashish Raj	Dr. David Solomon George
7	Extraction of silhouette from video for human motion detection	Swathi K Vijayan	Dr.Dvaid Solomon George
8	Copy move forgery detection in digital images	RaichelPhililpYohannan	Dr.Manju Manuel
9	Performance analysis of different wavelets at different levels of decomposition in image denoising	Sruthy Peter	Mr.AnishBabu K K
10	Automatic drusen detection from fundus images	Mohammed S	Dr. K P Indiradevi, Mrs. Anu George
11	Iris boundary localisation	Tossy Thomas	Mrs.Anu George
12	Study of vehicle sound for counting and classification	Jobin George	Mr.Riyas K S, Dr.Leena Mary
13	Connected digit recognition for Malayalam language	Sreejith	Mr.Riyas K S, Dr.Leena Mary
14	Voice Menu	Ranjith S	Mr.AnishBabu K

			K Dr.Leena Mary
15	ASR for Access Control	KarthikSelvan	Mr.AnishBabu K K Dr.Leena Mary

M Tech Main Projects

2014-15			
Sl. No.	**Title**	**Name of Student**	**Supervisors**
1	Language identification of indian languages using photactics and prosody	Lekshmi M Nair	Dr.Leena Mary
2	Towards a robust speaker verification system coping with VoIP, voice forgery	Athira Jess Cherian	Dr.Leena Mary
3	A Two-Stage Efficient Audio Search Algorithm for Content based Audi Retrieval	Ben P Babu	Dr.Leena Mary
4	Vehicle detection and classification using audio-visual cues	PiyushPurushothaman	Dr.Leena Mary, Mr. Rajeev Rajan
5	Development of a phase bassed multi pitch extraction	Boney Thomas	Mr. Rajeev Rajan
6	Silhouette analysis based action recognition by exploiting hyman	Ashish Raj	Mr.Josemartin M J, Dr. David Solomon

	body poses		George
7	Action recognition from video using feature covariance matrices of features	Swathi K Vijayan	Mr.Josemartin M J, Dr. David Solomon George
8	Improved detection of copy-move forgery in digital images	RaichelPhililpYohannan	Dr.Manju Manuel
9	Performance analysis of image denoising in directionlet domain at different levels of decomposition	Sruthy Peter	Mr.AnishBabu K K
10	Automate duse grading system in fundus images using fuzzy c-mean clustering	Mohammed S	Mrs.Anu George
11	Effective iris recognition in non-ideal imaging conditions	Tossy Thomas	Mrs.Anu George
12	A novel method for X-ray image enhancement	JithaPinkySreedhar	Mr. Rajeev Rajan, Dr.VarunGopi
2013-14			
13	Prosodically guided phonetic engine in malayalam	Deekshitha G	Dr.Leena Mary
14	Automatic syllabification for phonetic engine in Malayalm	Gayathri M R	Dr.Leena Mary
15	Prosody based speaker verification system: Effects of voice disguise	Sophia Susan John	Dr.Leena Mary

16	A discriminative model for age invariant face recognition using LDN and SIFT	Sreekala N S	Dr. David Solomon George
17	Query by example spoken term detection using Bessel features	DrisyaVasudev	Mr.AnishBabu K K
18	A novel approach in channel independent speaker verification system using GMM-SVM framework	Gayathri S	Mr.AnishBabu K K
2012-13			
19	Exploring vehicle sound signatures for characterisation of heterogeneous traffic	Jobin George	Mr.Riyas K S, Dr.Leena Mary
20	Phonetic engine in Malayalam	Sreejith	Mr.Riyas K S, Dr.Leena Mary
21	Prosody based forensic speaker recognition	Ranjith S	Mr.AnishBabu K K, Dr.Leena Mary
22	Spectral based Text Independent speaker recognition	KarthikSelvan	Mr.AnishBabu K K, Dr.Leena Mary