

RESEARCH AND TRAINING UNIT FOR NAVIGATIONAL ELECTRONICS OSMANIA UNIVERSITY - HYDERABAD 500007



5-DAY WORKSHOP ON AUTOMATIC SPEECH RECOGNITION

(Course Code: NERTU/SC/53)

7-11, NOVEMBER 2012

SPEAKERS:

1. Prof.S.C.Mehrotra, DBAMU
2. Dr.K.Samudravijaya, TIFR
3. Prof.K.Narayana Murthy, HCU
4. Prof.Kamakshi Prasad, JNTUH
5. Dr.Kishore Prahlad, IITH
6. Dr.Surykanth Gangashetty, IITH
7. Dr. K. Sri Rama Murty, IITH
8. Dr.Kishore Kumar, NITW
9. Dr.A.V.Ramana, Ikanos
10. Dr.P.Laxminarayana, OU

DATES:

November 7-11, 2012

TIME:

09.30AM - 05.30PM

LOCATION:

NERTU Auditorium, OU

REGISTRATION FEE

Rs. 2500/- for Full Time Students

Rs. 4000/- for Teachers

Rs. 6000/- for Scientists/Engineers

from Research and

Industrial Organizations

DD/Cheque should be drawn in favor of **The Director, NERTU, OU**

Accommodation: Available for limited people on payment basis on first come first served.

LAST DATE FOR REGISTRATION

31st October 2012

Find out More Details like programme, registration form etc. at www.osmania.ac.in

or contact:

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Course Overview

Outstanding work in Automatic Speech Recognition (ASR) and computing has produced the commercial speech recognition systems for voice-driven computing and word-processing systems in English and European Languages. Though some research work is happening in Indian languages too, ASR systems are not yet launched into the Indian market at full level. Therefore there is a need to do the research and development of ASR based applications for Indian languages.

The main objective of the course is to train and motivate the participants to learn the basics of Automatic Speech Recognition and start research and development of applications of ASR for Indian Languages.

The workshop will have theory sessions in the morning and lab practice in the afternoon. The topics to be covered in the theory are: Speech production, perception, Analysis, Fundamentals of ASR, Feature Extraction, Dynamic Time Warping, Hidden Markov Models, ASR for Isolated Words and Continuous Speech, Gaussian Mixture Models, Language Modelling, Language Identification, Speech Synthesis, ASR over VoIP and wireless networks. Lab practice will include Speech Signal analysis using PRAAT, Feature Extraction, DTW and HMM for IWR using MATLAB. Continuous Speech Recognition using Sphinx.

Targeted Participants

Teachers, scientists and engineers from research and academic organizations and industries, working in the area of speech signal processing, PG students interested to do their projects in Speech Signal Processing. Participants have to bring their own laptops to practice in the lab sessions.

About NERTU

The Research and Training Unit for Navigational Electronics (NERTU) is established in 1982. It is the focal point for research and training in the areas of Electronic Navigation in India. Since its inception, NERTU has successfully executed 40 sponsored and consultancy projects funded by DRDO, ISRO, DST, MIT, ECIL, HAL, BEL, AICTE and ASL. Currently, several projects in different areas related to navigation, signal processing and communications are in progress. It has also conducted 51 short term courses/workshops/ conferences on various topics of signal processing, communications and Navigation.

Interested candidates can download the registration form from www.osmania.ac.in or <http://www.uceou.edu> and send the filled form along with DD/Cheque, before **31st October 2012**, to the following address.

The Coordinator, ASR-12,
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