98-2 Preliminary Syllabus, Da-Yeh Univ

Information

Title		Serial No. / ID	0687 / IFI3076
Dept.		School System / Class	3　3
Lecturer		Full or Part-time	
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(　)567 / H562	Language	Chinese

Introduction

This course introduces many concepts and algorithms related to speech recognition, and examine some state-of-the-art systems.
The topics include:
  Overview
  Phonetics and Phonetic Units
  Feature Extraction Mel-Frequency Cepstral Coefficients (MFCC) Pitch contour
  Acoustic Modeling Hidden Markov Model (HMM) Artificial Neural Network (ANN)
  Language Modeling
  Search Algorithms
  State-of-the-Art Speech Recognition System

Outline

1. Introduction
2. Fundamentals of Speech Recognition
3. Acoustic Modeling
4. Language Modeling
5. Speech Signals and Front-end Processing
6. Search Algorithms for Speech Recognition
7. More about Hidden Markov Models

Prerequisite

none.