EEL 6586: AUTOMATIC SPEECH PROCESSING
SPRING 2008

Instructor: John G. Harris
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Office hours: TW 8:00-9:00am
TA: TBA

Prerequisite: EEL5701

Class Meeting: MWF 5th period (11:45-12:35pm) in LAR 239

Class Homepage: http://www.cnel.ufl.edu/hybrid/courses/EEL6586


Reference Books:


J.G. Harris
January 7, 2008


Course Topics:
The course covers the basics of speech processing, synthesis, and recognition. Homework assignments include writing Matlab programs to process actual speech signals. Course topics include:
* Fundamentals of speech science
* Modeling speech production
* Short-term processing of speech
* Linear prediction analysis
* Cepstral analysis
* Speech coding and synthesis
* Speech enhancement
* Recognition using templates and DTW
* Recognition using hidden Markov models

Tentative Grade Determination:
1/3 Homework
1/3 Exam 1
1/3 Final Project

Key Dates:
Exam March 18, period E2-E3, room TBA.
Final project due April 25, midnight.

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