EE 8993:   Fundamentals of Speech Recognition

Time: MWF 12-1 PM
Place: 213 Simrall

Textbook:
     Primary: F. Jelinek, *Statistical Methods for Speech Recognition*,
                    MIT Press, ISBN x-xx-xxxxxx-x
     Secondary: J. Deller, et. al., *Discrete-Time Processing of Speech Signals*,
                    MacMillan Publishing Co., ISBN 0-02-328301-7

Instructor: Joseph Picone (picone@isip.msstate.edu)
Office: 413 Simrall
Office Hours: MWF 8-10 AM (other times by appointment)
URL: http://www.isip.msstate.edu/resources/courses/ece_8993_speech

Attendance
Policy: **"This is an 8XXX class!"**

Grading Policies: No exams! No homework! Only a simple, little course project...

                    Demonstration   25%
                    Presentation: 25%
                    Paper   50%

                    Goal: Produce an IEEE conference paper and your grade will take
                    care of itself.

Course Project: Each student will define and work a project. Several of these
                  projects can fit together into a large piece, or students can work in
                  isolation.

                  At the end of the semester, each student is REQUIRED to give a
                  demonstration, presentation, and write a detailed technical paper on
                  their work. Consult the web site for more information.

                  You will be required to prepare all materials in Framemaker to
                  assure that we can easily publish high quality archives of your work.

Lect. No.	Date MWF	Date TTH	Reading Sects.	Lecture Topic
1	1/7			Introduction
2	1/9			Review of DSP
3	1/12			Review of Random Processes
4	1/14			Distance Metrics, Principal Components
5	1/16			Fundamentals of Anatomy and Physiology
6	1/21			Fundamentals of Linguistics
7	1/23			Short-Term Signal Processing
8	1/26			Linear Prediction
9	1/28			Cepstral Techniques
10	1/30		1	
11	2/2		1	
12	2/4		1	
13	2/6		2	
14	2/9		2	
15	2/11		2	
16	2/13		3	
17	2/16		3	
18	2/18		3	
19	2/20		4	
20	2/23		4	
21	2/25		4	
22	2/27		5	
23	3/2		5	
24	3/4		5	
25	3/6		6	
26	3/16		6	
27	3/18		6	
28	3/20		7	
29	3/23		7	
30	3/25		7	
31	3/27		8	
32	3/30		8	
33	4/1		8	
34	4/3		9	
35	4/6		9	
36	4/8		9	
37	4/13		10	
38	4/15		10	
39	4/17		11	
40	4/20		11	
41	4/22		12	
42	4/24		12	
43	4/27		13	
44	4/29		14	
45	5/1		15	
46	5/1		Presentation Day - 1:00 PM to 4:00 PM (Simrall Auditorium)	
47	5/3		Final Papers Due	