

Minje Kim's Spring 2017 Course

ENGR E599

MACHINE LEARNING FOR SIGNAL PROCESSING

DOOR: M/W 11:15 AM
WHERE: WOODBURN HALL 005

Restriction: All Grads
(Undergrads need permission)

Opening

CALCULUS

LINEAR ALGEBRA

PROBABILITY & STATS

LINE UP

Signal Processing Stage

SOURCE SEPARATION,
STEREO MATCHING,
AUDIO PROCESSING,
FOURIER TRANSFORM,
BRAIN WAVES,
SPEECH RECOGNITION,
SENTIMENT ANALYSIS,
MUSIC INFORMATION RETRIEVAL,
DETECTION,
IMAGE SEGMENTATION
AND MANY MORE...

Machine Learning Stage

PCA, EM, Mixture Models,
Topic Modeling,
Hidden Markov Models,
Bayesian, Kernels,
Graphical Models,
Gibbs Sampling,
Non-parametric,
Manifold Learning,
Deep Learning,
Hashing
And Many More...

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ASSIGNMENTS

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