

# Subspace Classifier Seminar

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## 1 Rationale

The original form of the subspace classifier was introduced by Bledsoe and Browning in 1959. It is the first paper to introduce subspace classifiers and to introduce combining classifiers by the sum rule. Even today it is a state of the art classifier with respect to computation complexity.

## 2 Course Description

The course will have two kinds of activity, Each week one of the students will review one or two of journal and conference papers relevant to the subspace classifier. There will be no exams or homework. There will be a final project that will be the implementation of a particular or new form of the subspace classifier and an experiment to determine is effectiveness of classification. A full protocol must be written for the experiment.

## 3 Prerequisites

The pre-requisites consist of having taken the Machine Learning class given at the Graduate Center and being familiar with undergraduate senior level or above linear algebra and probability and statistics.

## 4 Course Materials

The course materials will be journal and conference paper articles that will be put on the class website.

## 5 Assessment

The assessment will be 33% on presentation of journal and conference papers and 67% on the final project.