

ECE 531: Project Registration Form

Deadline for sending this form to the instructor:

March 14, 2017

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Project title/abstract: "Identifying Handwritten Digits via Bayes Classifier"

Character recognition is a common operation in modern administrative operations such as document scanning and conversion and check deposits in banking transactions. This project will illustrate a Bayes classifier trained on the well-known MNIST digit database to identify handwritten digits.

Stretch goal 1: *for entertainment purposes, illustrate one application of this character recognition approach by feeding a handwritten (scanned) Sudoku puzzle to a software Sudoku solver, to solve the puzzle*

Stretch goal 2: *does the classifier work well with electronic fonts? Try feeding Sudoku puzzle images grabbed from the Internet to the Sudoku puzzle solver, see how well it works.*

NOTE: these stretch goals based on a Sudoku solving algorithm I wrote some years ago. It's missing the image parsing and character recognition to automate input. This project is an opportunity to continue augmenting this toy with new features.

I can present my ECE 531 project on*

(Students are encouraged to pick several dates to provide more flexibility in scheduling)

4/13



In order of preference,
1=highest:

4/18



4/25



4/27



* Capacity per day: 3