Course Outline
GE 420: Digital Control Systems

Term: Fall 2014
Tuesdays and Thursdays 8.00-9:20am in 204 Transportation Building (TB)

Instructor: Dušan M. Stipanović
Office hours and location: Tuesdays 9.20am-10.20am, 312TB
Office: 312 TB and 147 Coordinated Science Laboratory (CSL)
E-mail: dusan@illinois.edu
Phone: 217-244-0907

Lab Instructor: Daniel J. Block
E-mail: d-block@illinois.edu
Lab location and hours: 237 Everitt Lab, MW 3:00-5:50pm
Website: http://coe.coe.ece.illinois.edu/ge420


Topics (not all of the following will be necessarily covered in class):
- Introductory Digital Control
- Discrete Systems Analysis
- Sampled-Data Systems
- Discrete Equivalents
- Design Using Transform Techniques
- Design Using State-Space Methods
- Multivariable and Optimal Control

Grade composition (subject to changes):
- One in-class midterm exam: 15%.
- Comprehensive take-home final exam: 30%.
- Homework problems: 35%.
- Lab assignments: 20%.

General information: Late homework submissions will not be accepted unless you have prior approval by the instructor.