

Department of Applied Mathematics, University of Waterloo

# GRADUATE STUDENT SEMINAR

MONDAY, JANUARY 16<sup>TH</sup>, 2012  
NEW TIME: 17:30 – 18:30; MC 5136



Disturbance rejection from the lateral motion in a  
roll-to-roll web system  
- [Jin Zhao](#), PhD Candidate -



In a roll-to-roll web system, lateral motion of a web caused by disturbances, which are often periodic, results in poor product quality. To reduce the effect of such disturbances, two existing control strategies are used. The first uses the internal model principle for sinusoidal disturbances with known period, and the second uses repetitive control theory for general periodic disturbances with known period. In this talk, I will review both strategies and then apply them on a five roller web system.



PIZZA, SOFT DRINKS, AND SNACKS PROVIDED  
COURTESY OF THE DEPARTMENT



Maybe you are ready to present your completed thesis?  
Or, maybe you completed an interesting project a course?  
Or, maybe want to present a few papers and get some  
suggestions/ideas from your peers?

Dates Available: Jan. 30<sup>th</sup>, Feb. 6<sup>th</sup>, and Feb. 20<sup>th</sup>



Questions, Comments, and Interest can be directed to  
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