

Lectures on Pure and Applied Math



Announcing

A Seminar Presentation

on Thursday

October 13, 2016

at 3:00 pm in

North Hall 102

at The University of New Haven

Dr. Emre Tokgoz

Department of Industrial Engineering
Quinnipiac University

**Title: Discrete and Mixed Convexity and Optimization
with Real Life Applications**

Abstract:

Convexity and optimization of mixed (i.e. integer and real) variable functions are often seen in inventory, queueing and telecommunication systems. In this talk, Condense Discrete and Condense Mixed convexity methods and the corresponding Hessian matrices used for obtaining convexity results for closed form functions will be explained. Condense mixed convexity applications to some of the known mixed variable functions in the literature such as Erlang delay and loss formulae in telecommunication systems, an $(S-1, S)$ inventory model (suggested by Das (1977)), and an $M/E_k/1$ queueing system model (suggested by Kumin (1973)) will also be explained.

Further Information

For further information, please contact Angie Domschine at the Department of Mathematics, Office: Maxcy 204, 203-932-7250, ADomschine@newhaven.edu.