Data Science Seminar Hosted by Department of Mathematical Sciences

■ Date: Tuesday, September 26, 2017

■ Time: 12:00pm - 1:00pm

Room: WH-100E

Speaker: Ji Meng Loh (New Jersey Institute of Technology)

• Title: Single-index model for inhomogeneous spatial point processes

Abstract

I will introduce a single-index model for the intensity of an inhomogeneous spatial point process, relating the intensity function to an unknown function ρ of a linear combination of a p-dimensional spatial covariate process. Such a model extends and generalizes the commonly used log-linear model. I will describe an estimating procedure for ρ and for the coefficient parameters β . Consistency and asymptotic normality of estimates of β can be achieved under some regularity assumptions. I will show results from a simulation study showing the effectiveness of the procedure and from fitting the model to a dataset of fast food restaurant locations in New York City.

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