

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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