MICHIGAN STATE UNIVERSITY
Department of Statistics and Probability

COLLOQUIUM

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Missing and Modified Data in Nonparametric Statistics

Tuesday, September 22, 2020
10:20 AM - 11:10 AM Eastern Time (ET)
Zoom

Abstract

After a short introduction to topics in nonparametric curve estimation, covered in my 2018 Chapman & Hall book with the same title as the talk, three specific problems will be considered. The first one is nonparametric regression with missing at random (MAR) responses. It will be explained that a complete case approach is optimal in this case. The second problem is a nonparametric regression with missing at random (MAR) predictors. It will be explained that in general a complete case approach is inconsistent for this type of missing and a special procedure is needed for efficient estimation. The last explored problem is devoted to survival analysis, specifically to efficient estimation of a hazard rate function for truncated and censored data. Time permitted, several recent results and open problems will be highlighted.

Zoom details can be found at: https://stt.natsci.msu.edu/stt-colloquium-zoom-info/

To request an interpreter or other accommodations for people with disabilities, please call the Department of Statistics and Probability at 517-355-9589.