Functions, Images and Statistical Methods

Presented by

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Abstract: The increased capability to record and store 'big data' has revolutionized the way that data are analyzed and has resulted in the need for statistical approaches that address the intricacies of this data. Big data analytics, which is the process of examining huge amounts of diverse data to determine useful trends/patterns and other useful information, has resulted in the increased need to develop statistical methods that address the complexities of such data. In this talk, I will give an overview of the emerging field of Functional Data Analysis (FDA) and its applications to different fields. In addition, we consider robust statistical methods for functional regression models and evaluate their efficiencies by way of simulation studies and applications to real world examples.

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