

学术报告

Mathematical Modelling for Big Genomic
Imaging Data Analysis

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Time: 10:00-11:00, Jun 28 (Thursday) , 2018

Venue: Room 111, Center for Applied Mathematics

Abstract: In this talk, I will give an overview of our research work at Tulane Multiscale Bioimaging and Bioinformatics Laboratory (<http://www.tulane.edu/~wyp/>). First, I will present our latest developments of computational and statistical models such as sparse regressions for data representation and analysis. Second, I will present examples of applying these models to the extraction of biomarkers from (epi) genomics and MRI imaging data. Third, I will focus on the integration of multiscale genomic and imaging data for improved diagnosis of mental illnesses (e.g., schizophrenia). Finally, I will show how to build brain networks and use them as fingerprints to recognize different age groups and predict IQs.

欢迎大家参加！