

数学与系统科学研究院

计算数学所学术报告

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报告题目:

**Dimension Reduction Techniques in
Optimal Transport Problems**

邀请人: 刘歆 研究员

报告时间: 2021 年 5 月 7 日 (周五)

上午 10:00-11:00

报告地点: 科技综合楼

311 教室

摘要:

Recently, optimal transport methods have drawn great attention in Statistics, machine learning, and computer science due to their close relationship to deep generative neural networks. Despite its broad applications, the estimation of high-dimensional Wasserstein distances is a well-known challenging problem owing to the curse-of-dimensionality. In this talk, we will introduce some cutting-edge dimension reduction techniques that tackle high-dimensional optimal transport problems. We will also cover some recent studies, which indicate OT methods themselves, surprisingly, can be utilized to construct dimension reduction tools. Open challenges will be discussed at the end of the talk.

欢迎大家参加!