



复旦大学数学科学学院 数学综合报告会

报告题目: PDE-based models in machine learning

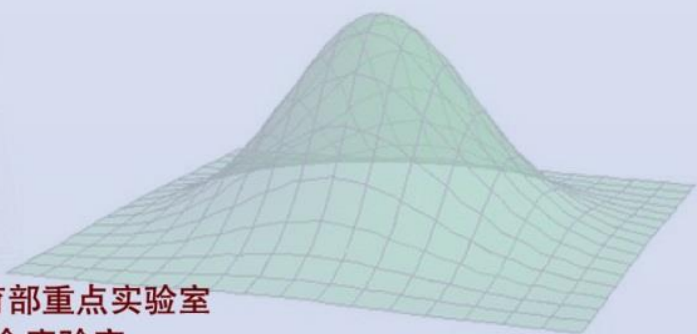
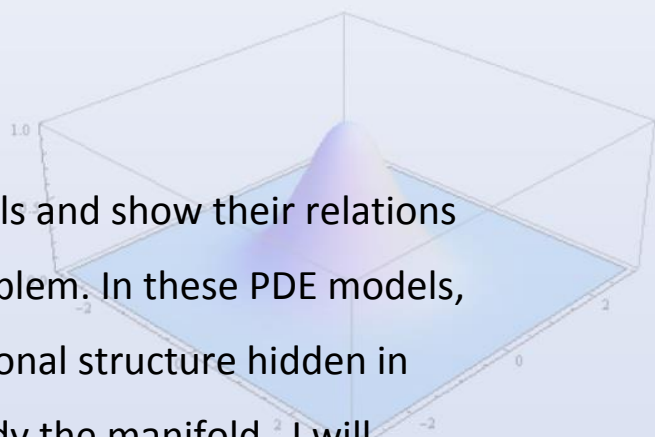
报告人: 史作强 教授 (清华大学数学科学学院)

时间: 2021-01-25 星期一 9:00-10:00

地点: 腾讯会议ID:196688549, 密码: 200433

报告摘要:

In this talk, I will present several PDE models and show their relations to machine learning and deep learning problem. In these PDE models, we use manifold to model the low dimensional structure hidden in high dimensional data and use PDEs to study the manifold. I will reveal the close connections between PDEs and deep neural networks. Theoretical analysis and numerical simulations show that PDEs provide us powerful tools to understand high dimensional data.



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