Numerical Analysis and Scientific Computing Seminar

Optimal Transport on Finite Graphs with Applications

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Abstract: In this talk, I will discuss the optimal transport theory on discrete spaces. Various recent developments related to free energy, Fokker-Planck equations, as well as Wasserstein distance on graphs will be presented, some of them are rather surprising. Applications in game theory and robotics will be demonstrated. This presentation is based on several joint papers with Shui-Nee Chow (Georgia Tech), Luca Dieci (Georgia Tech), Wen Huang (USTC), Wuchen Li (UCLA), Yao Li (U. Mass), Jun Lu (Shunfeng) and Haoyan Zhai (Georgia Tech).

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