

# 國立清華大學數學系學術演講

## NTHU MATH Colloquium

- 講題 How to embed a data manifold by using locally linear maps?
- 講者 陳志偉 教授(中山大學)
- 時間 2021.04.12 (Mon.) 16:00 – 17:00
- 地點 第三綜合大樓4F Lecture Room B
- 茶會 15:30, R707

### **Abstract**

A data cloud with special pattern can be seen as a high dimensional (sub-)manifold and its features can be detected via various dimensionality reduction maps. Mechanisms of some well-known maps, such as LLE and HLLE, will be discussed in this talk. With Dr. Liren Lin, we propose a Tangential LLE which can capture intrinsic structure of the data manifold while LLE/HLLE fails or is non-applicable.