

國立中山大學應用數學系

學術演講

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講題：Boundedness of t-SNE with data points sampled from a undemanding probability measure.

時間：2023/12/26 (Tuesday) 15:20~16:10

地點：理 SC 4009-1 教室

茶會：13:30

Abstract

t-SNE is a nonlinear dimensionality reduction algorithm which is a way to represent high dimensional data in low dimension such as \mathbb{R}^2 . When we reduce the dimension of data, we lose some information, hence we have to choose which information we want to preserve. In t-SNE, we quantify similarity of data points using Gaussian and student t-distribution function, and try to find a point distribution in low dimension which preserves the similarity of data by minimizing KL-divergence $\sum p \log \frac{p}{q}$. t-SNE shows clusters of data pretty well, and therefore it is used in many area. In this talk, I present boundedness of the points generated by t-SNE, and discuss existence of the minimizer of the KL-divergence.

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