國立中山大學應用數學系
學術演講

講　　者：Prof. Guangliang Chen

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講　　題：A Novel Geometric Multiscale Approach to Structured
    Dictionary Learning on High Dimensional Data

時　　間：2015/7/2（星期四）15：30～16：30

地　　點：理學院四樓理 SC 4009-1 室

茶　　會：15:00 於理 SC 4010 室（系辦公室）

摘要

　　Many real data sets have high ambient dimensions, but they are often intrinsically low-dimensional. We exploit such an assumption for efficiently representing high-dimensional data by using an adaptive, sparsifying dictionary. We construct the dictionary directly from the data based on a novel geometric multi-resolution analysis and we will show that it also relates to dictionary learning on the Grassmannian. In this talk, we present our constructions and associated advantages and demonstrate applications to image processing.

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