

# 國立交通大學應用數學系

## 學術演講公告

主講人：Prof. Yen-Chang Huang (Xiamen University Malaysia)

講題：Applications of Integral Geometry to Pattern Recognition

時間：106年2月14日(星期二) 下午 2:00 –3:00

地點：(光復校區) 科學一館 223 室

茶會：當天下午 1:30 (科學一館 205 室)

### Abstract

In this talk, we will emphasis on the applications to Pattern Recognition. First, one of the classical approaches to Pattern Recognition by using the chords of the pattern will be introduced, and the objective measures of pattern features can be obtained. Such the theory is based on Integral Geometry which consider measures on a geometrical space invariant under the symmetry group of that space. Secondly, we will show that how the autocorrelation function of a pattern can be exploited to enhance and/or extract pattern features. One of the interesting facts for the theory is that it can be implemented using a parallel processing type of computation. Finally, we will present the general theory in Integral Geometry and the recent work to the sub-Riemannian geometry.

敬請公告 歡迎參加

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