

# 國立中山大學應用數學系

## 學術演講

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講題：The mathematical principle of Mask R-CNN and  
its application to the food industry

時間：2019/07/18 (Thursday) 14:10 ~ 15:00

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)

### Abstract

The convolutional neural network (CNN) has been showed that it is one of the best performance of deep neural networks applied to the analysis of static visual imagery. Recently a conceptually intuitive and efficient method called Mask R-CNN (developed by Facebook AI Research) also shows powerful efficiency for object detection and instance segmentation. In this talk I will illustrate the mathematical background of Mask R-CNN and its application to the boundary detection on the field of food industry. In particular, an automatic detection system by computer vision to the surface and volume of objects will also be introduced.

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