

國立中央大學數學系

專題演講

主 講 人：周世偉教授 (東吳大學財務工程與精算數學系)

演講題目：Applications of mathematics in FinTech：

Crowdfunding and crowdsourcing

演講茶會：2022年01月04日(星期二) 12:00 p.m. ~ 12:30 p.m.

茶會地點：中央大學鴻經館M306

演講時間：2022年01月04日(星期二) 11:00 a.m. ~ 12:00 p.m.

演講地點：中央大學鴻經館M116

Abstract：

In this talk, we will discuss several examples of applications of mathematics in FinTech. Why should we be excited about the FinTech. FinTech means “financial technology”. It provide a new way people pay, send money, borrow, lend, and invest. Crowdfunding and crowdsourcing are increasingly becoming household names.

There are two main types of motivation in this talk. Firstly, we generalize logic from mathematics. We define functions for reality problem. Find the algorithm to optimize of these cost functions. The calculus, linear algebra and statistics are the basis for a broad variety of algorithms. Secondly, the data analysis is a relatively new tendency in informatics. Training of prediction models is a very important work, especially for work with unstructured data. Furthermore the structured data published by Crowdsourcing platform is then made open and available for anyone to view or download. There are two approach to collection the data. First, we dig deeper into traditional qualitative content. Crowdsourcing platform provide structured data derived from such unstructured sources as project. Secondly, data sets can be formed as other processes. Transaction data such as consumer to consumer, or business to customer, web traffic for other purposes. An increasing number of businesses are turning to business to business that offer solutions to common problems for indirect spend management.

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