國立交通大學應用數學系
學術演講公告

(1) 主講人：Prof. Xiaoming Yuan(University of Hong Kong)

講　題：A Preliminary Understanding of Optimization: From Linear Programming to Variational Inequalities

時　間：107 年 5 月 22 日(星期二) 下午 1:20 –2:10

地　點：(光復校區) 科學一館 223 室

Abstract.

Optimization is science of making the best decision; or mathematically how to minimize a function subject to some given constraints which are also represented by function equations or inequalities. It plays a core role in various disciplines varying from economics, statistics, computer science, electronic engineering to scientific computing. In big-data era, Optimization is particularly important to offer faster algorithms to tackle mathematical models with huge datasets. In this talk, I will present some of my own understandings of Optimization, starting from the standard linear programming to integer programming, then a geometric understanding of the essence of KKT condition for nonlinear programming and a benchmark algorithm for a class of nonlinear programming models; and finally some essences of the variational inequalities and complementarity problems. Particularly, I will mention some interesting applications of different models in economics and image processing. This talk will be at introductory level and can be easily understood by undergraduates.

(2) 主講人：余冠儒 先生 (Technical University of Vienna)

講　題：Analysis of Random Rooted Planar Maps via Generating Functions

時　間：107 年 5 月 22 日(星期二) 下午 2:20 –3:10

地　點：(光復校區) 科學一館 223 室

Abstract.

In this talk, I will introduce a way to count rooted maps and provide a combinatorial approach to determine limiting probabilities of rooted pattern occurrences in random planar maps. The proofs are based on generating functions and singularity analysis.

敬請公告　歡迎參加

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