

國立中正大學數學系
暨應用數學碩士班、統計科學碩士班
學 術 演 講

**Solving Quadratic Unconstrained Binary
Optimization by Digital and Annealers with AI**

舒宇宸 教授

Prof. Yu Chen Shu

國立成功大學數學系

Department of Mathematics, National Cheng Kung University

Abstract

In this talk, I will delve into the combinatorial optimization problems formulated in the quadratic unconstrained binary optimization (QUBO) framework and solve them by the digital and GPU annealers. I will present a comparative analysis of digital annealers versus traditional annealers, focusing on their performance across a range of classical NP-hard problems. Additionally, I will show some recent results about the AI predictions for QUBO initialization.

日 期:115 年 6 月 10 日(星期三) 16:10~17:00

地 點:本校數學館 527 教室(嘉義縣民雄鄉大學路 168 號)

茶 會:15:30~16:00 數學館四樓 409 室舉行

歡迎參加 敬請公佈
交通資訊及校內地圖請參閱如下網址

<https://math.ccu.edu.tw/p/404-1069-12096.php?Lang=zh-tw>