

國立中央大學數學系

專題演講

主 講 人：楊皓琮教授 (國立中央大學資工系)

演講題目：**Mutli-agent Patrolling: Approximation
algorithms and their connection to Adversarial
settings**

演講茶會：2024年04月25日(星期四) 3:30 p.m. ~ 4:00 p.m.

茶會地點：中央大學鴻經館M306

演講時間：2024年04月25日(星期四) 4:00 p.m. ~ 5:00 p.m.

演講地點：中央大學鴻經館M107

Abstract：

Multi-agent patrolling generally indicates the scenario where single/multi-mobile agents (i.e., robots, drones, autonomous cars...) persistently cover and scout a physical environment. Efficient assigning resources to ensure security is crucial and unlike typical resource-constraint problems, the challenges have the following characteristics. First, the agents are required to visit/re-visit targets and the feedback may not be obtained in the short run. Secondly, the realistic model naturally combines adversarial settings and the problems are much more complicated and also varied a lot based on different adversary settings.

In this talk, I will briefly introduce the recent trend of Multi-agent patrolling and then show our recent theoretical contributions to one of the close-related objectives: latency. Later, I will show how this objective connects to the realist game-theoretic models and their applications.

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