國立陽明交通大學應用數學系
學術演講公告

主講人：夏俊雄 教授 (台灣大學 數學系)

講　題： Synchronization of Kuramoto oscillators with the distributed time-delays and inertia effect

時　間：111 年 10 月 11 日(星期二) 下午 2:00 –3:00

地　點：(光復校區) 科學一館 223 室

Abstract

This is joint work with Chang-Yeol Jung, Bongsuk Kwon and Sunghwan Moon. In this talk, we prove the complete and partial phase synchronization for the Kuramoto oscillators with distributed time-delays and inertia effect. Our results assert that the Kuramoto models incorporated with a small variation of distributed time-delays and inertia effect still exhibit synchronization. This shows the robustness of the synchronization phenomena of the original Kuramoto model in the perturbation of time-delay and inertia effects.

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