國立陽明交通大學應用數學系
演講公告

主講人：陳世昕教授 (國立中興大學)

講　題：On Synchronization Analysis of Kuramoto Oscillators Incorporating Amplitude Dynamics

時　間：115 年 11 月 24 日(星期二) 下午 14:00 –15:00

地　點：(光復校區) 科學一館 213 室

Abstract

Synchronization is regarded as a universal feature. It has also been observed and applied in various disciplines, including circadian rhythms, firefly flashes, biological oscillators, etc. To demonstrate such phenomena, the Kuramoto model has been investigated and widely applied to Josephson junction arrays, power systems, network science, etc. In this talk, I shall briefly give an introduction and introduce the 1st-order and 2nd-order Kuramoto models with the amplitude dynamics. Then I shall present the main results and key lemmas of the proofs. If time permits, I will present the numerical simulations to support the main results. Finally, I will summarize the talk and discuss future work.

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