PDE Seminar 2024

Math

Associative-Memory Network of Kuramoto-type oscillators for Binary Pattern Retrieval

Zhuchun Li
Harbin Institute of Technology

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Abstract: The network of Kuramoto-type oscillators with a Hebbian rule can be applied to the binary pattern retrieval task. Given a set of standard binary patterns and a defective pattern, the task is to find the closest pattern to the defective one among these standard patterns. For this task, the stability of standard patterns and the instability of most other patterns are desired. In this talk, we will introduce some results on the stability analysis, based on which some algorithmic approach and illustrative simulations are presented. This is based on joint works with Xiaoxue Zhao and Xiaoping Xue.

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