

電気情報工学科 Lecture Series 2018

Time and Venue: 1月31日(木) 16:30 中講義室

Lecturer: Prof. Zhiyun Lin (Hangzhou Dianzi University, China)



Title: Information Flow and Controlling Behaviors in Swarm Robotics

Abstract: Swarm robotics is an approach to the coordination of multiple robots as a system which consists of large numbers of mostly simple physical robots. It is supposed that a desired collective behavior emerges from the interactions between the robots and interactions of robots with the environment. This approach is inspired but not limited by the emergent behavior observed in social insects, called swarm intelligence. This talk will discuss several controlling behaviors in swarm robotics and explore the key-component of information flow between the members of the group that build a system of constant feedback. By using only local communication and sensing, we show how relatively simple individual rules can produce a large set of complex group behaviors.

Contact: 蔡凱 kai.cai@eng.osaka-cu.ac.jp (内線 2703)

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