

**Title:** Swarm Robots

**Abstract:** This talk will talk about different research aspects on swarm robots. Firstly, the motivation, history, and potential application of swarm robots will be briefly introduced, followed by a brief reviews on the collective behaviors, design methods, and analysis methods for swarm robots. Secondly, the swarm intelligence, which is an important method utilized for swarm robots in recent years, will be discussed. Finally, an example will be presented to illustrate how swarm intelligence can be applied to solving optimization problems existing in swarm robots.