

Workshop on

Complex Systems and Collective Animal Behaviour

13th and 27th November 2025

This workshop aims to bring together researchers and students interested in understanding how collective behaviours emerge in animal groups and complex systems. We will explore how coordination and decision-making arise from simple local interactions, bridging insights from biology, robotics, and complex systems.

INVITED SPEAKERS

Dr. Andreagiovanni Reina
Dr. Liang Li
Dr. Einat Couzin-Fuchs
Research group leaders
Centre for the Advanced Study of Collective Behaviour (CASCB),
University of Konstanz & Max Planck Institute of Animal Behaviour, Germany

Dr. Guy Theraulaz
Research director
Research Center on Animal Cognition (CRCA),
Toulouse III – Paul Sabatier University & National Centre for Scientific Research (CNRS)

PROGRAM

13th November 2025  Largo San Marcellino, 10, Napoli – III piano

TIME	SPEAKERS	TITLE	VENUE
10:00	Mario di Bernardo	Introduction to the workshop	Classroom 4
10:15	Andreagiovanni Reina	Bio-inspired collective robotics	Classroom 4
11:00		Coffee break	
11:30	Liang Li	RoboTwin: from biology to robotics and back	Classroom 4
12:15	Einat Couzin-Fuchs	Dissecting the rules of collective behaviour in locust swarms	Classroom 4
13:00		Lunch Break	
14:30		Brainstorming and Discussion Session	Classroom 3
15:30		Coffee break	
16:00		Brainstorming and Discussion Session	Classroom 3
20:00		Social Dinner	

27th November 2025  Via Mezzocannone, 4, Napoli – II piano

TIME	SPEAKERS	TITLE	VENUE
14:30	Guy Theraulaz	From interactions rules to critical states in schooling fish	Aula Magna (TBC)
15:30		Coffee break	