

Call for contributions to the IROS, Macau, November 4<sup>th</sup>, 2019

# Aerial Swarms Workshop

## Invited speakers

Giuseppe Loianno  
Guido de Croon  
Gábor Vásárhelyi  
Shaojie Shen  
Martin Saska  
Jia Yongnan  
Alcherio Martinoli  
Nora Ayanin



## Organizers

Fabrizio Schiano  
Dario Floreano  
Paolo Robuffo Giordano

A photograph showing a large indoor arena with a white metal truss structure. Several quadcopter drones are flying in a coordinated pattern within the space. The background is a plain white wall.

Over the last decade, aerial swarms have emerged as one of the most challenging, exciting, and multidisciplinary fields of robotics. Aerial swarms have the potential to solve complex tasks faster and more efficiently than single-robot systems. Nature offers inspiration for solutions to several challenges related to robotic swarms. Many researchers are inspired by the collective behavior of animals, insects, and bacteria for the design of systems with multiple robots. This workshop will provide an occasion for exchange on these topics at the intersection of robotics, computer science, biology, and physics.

**Deadline for submission: June 24<sup>th</sup>, 2019**

**Workshop date: November 4<sup>th</sup>, 2019**

**Topics:** multi-robot systems, aerial swarms, unmanned aerial vehicles (UAV), bio-inspired algorithms, collective behavior, distributed systems



<http://go.epfl.ch/iros2019swarms>

