



**13th International Conference on Computational
Collective Intelligence ICCCI 2021**
Hybrid Mode
29 September – 1 October 2021, Rhodes, Greece



SUAV 2021

Special Session on Swarms of UAVs

at the 13th International Conference on Computational Collective Intelligence (ICCCI 2021)

Rhodes, Greece, 29 September – 1 October 2021

Conference website: <http://www.iccci.pwr.edu.pl/>

Special Session Organizers

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Objectives and topics

From theoretical models to deployment of real drones, UAV swarms have witnessed a growing interest last two decades. In the context of this special session, a swarm is considered as a set of autonomous machines presenting a collective behavior without relying on any centralized mechanism. This meeting aims at offering a forum for specialists or new comers to this domain. Measuring the distance that may exist between theory and practical experiments, and opening the discussion about potential solutions for reducing it is one of the objectives of this session. Researches at any maturity level as well as emerging new ideas or ongoing works from theoretical models to existing hardware solutions for enabling UAVs to fly as swarms are welcome. More generally, topics of interest for SUAV 2021 include (but are not limited to) the following topics:

- theoretical models (e.g. Look-Compute-Move)
- distributed algorithms
- cooperation versus competition
- bio-inspired approaches
- communication issues
- optimization, robustness and fault tolerance
- simulations
- pattern formation
- environment perception
- technological hardware/software solutions
- applications

Important dates

Submission of papers: **15 May 2021 (Hard deadline)**
Notification of acceptance: **15 June 2021**
Camera-ready papers: **30 June 2021**
Registration & payment: **30 June 2021**
Conference date: **29 September – 1 October 2021**

Program Committee (to be invited)

Pierre Avanzini, Squadron System Grenoble, France
Pascal Bouvry, University of Luxembourg
Serge Chaumette, University of Bordeaux, France
Gregoire Danoy, University of Luxembourg
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Sanaz Mostaghim, Otto-von-Guericke University, Germany
Giuseppe Prencipe, University of Pisa, Italy

Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper please activate the following link and select the track : **SUAV 2021: Special Session on Swarms of UAVs**.

<https://easychair.org/conferences/?conf=iccci20210>

Authors are invited to submit original previously unpublished research papers written in English, of up to 13 pages, strictly following the LNCS/LNAI format guidelines. Authors can download the Latex (recommended) or Word templates available at Springer's web site. Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the SUAV 2021 Program Committee. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in the prestigious series LNCS/LNAI (indexed by ISI CPCI-S, included in ISI Web of Science, EI, ACM Digital Library, dblp, Google Scholar, Scopus, etc.).