

Call for Contributions

1. Inform the Chair: with the Title of your Contribution

2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=CYBER+2021+Special>

Please select Track Preference as **AMCPS**

3. Note: *For 2021, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Special track

AMCPS: Autonomous Mobile Cyber-Physical Systems

Chair

Professor Peter Schneider-Kamp, University of Southern Denmark, Denmark
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Coordinator

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along with

CYBER 2021: The Sixth International Conference on Cyber-Technologies and Cyber-Systems

<https://www.iaria.org/conferences2021/CYBER21.html>

October 03 - 07, 2021 - Barcelona, Spain

Mobile cyber-physical systems such as drones and mobile robots have opened up huge number of societally relevant applications. To this day, in most application cases, the systems are controlled manually by human pilots or operators, effectively limiting the technologies potential across all application domains. To unlock the full potential of mobile cyber-physical systems, there is a need to investigate and develop cyber-technologies and cyber-systems that operate autonomously to an increasing degree.

We are calling for contributions from avionics and systems engineers, computer scientists, cyber security researchers, and regulatory experts to advance the state-of-the-art of cyber-physical systems.

Topics include, but are not limited to:

- Theoretical and fundamental approaches to autonomous mobile cyber-physical systems (such as routing and scheduling algorithms for drones and mobile robots)
- Cyber security and safety aspects of autonomous mobile cyber-physical systems (such as secure communication and hazard avoidance for drones and mobile robots)
- Engineering challenges and solutions for mobile cyber-physical systems (such as full-system or components designs for drones and mobile robots)
- Communication and cloud infrastructure for mobile cyber-physical systems (such as cloud services and computer networks for drones and mobile robots)
- Applications of autonomous mobile cyber-physical systems (such as inspection or transportation solution based on drones and mobile robots)
- Regulatory and practical aspects of autonomous mobile cyber-physical systems (such as beyond-visual-line-of-sight flight and operation for drones and mobile robots)

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaia.org]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Important Datelines

Inform the Chair or Coordinator: As soon as you decide to contribute

Submission: August 12, 2021

Notification: August 28, 2021

Registration: September 10, 2021

Camera ready: September 10, 2021

Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.

Paper Format

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

<https://www.iaiasubmit.org/conferences/submit/newcontribution.php?event=CYBER+2021+Special>

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

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