

5th International Workshop

registrations are opened

<https://congres.adera.fr/congres/5th-International-Workshop-Unmanned-and-Swarming-Conference/uk>

Unmanned and Swarming Conference: Research Challenges for Future Unmanned Systems and Autonomous Swarming

October 10-11, 2018, Bordeaux, France

A conference supported by the Aetos drone cluster

(<http://www.aetos-aquitaine.fr/>)

in Conjunction with UAV Show (<https://uavshow.com/en>), Europe's largest professional drone airshow and exhibition, Mérignac (Bordeaux), France

<http://www.labri.fr/perso/chaumett/unmanned-and-swarming-2018/>

For any information, please send an e-mail to Pr. Serge Chaumette
at serge.chaumette@labri.fr including
[Unmanned and Swarming Conference] in the subject line.

This conference is the fifth in the series on Unmanned Systems and Autonomous Swarming with applications to real-world scenarios. It focuses on unmanned systems (air, ground sea, underwater, etc.), supportive technologies, software environments and the associated key research issues. The aim is to bring together the community and to provide an opportunity to share experiences and views of current trends and activities in the domain.

In addition to regular papers, the workshop highlights student posters and demonstrations that showcase real-world applications of US. Graduate and Undergraduate students are especially welcome to present posters.

Topics of interest

Topics of interest include but are not restricted to:

- ✓ Unmanned systems (air, ground, surface, underwater, etc.)
- ✓ Swarming, autonomous swarming, heterogeneous swarming

- ✓ Air-space integration, sense and avoid
- ✓ Trajectory and path planning
- ✓ Autonomy
- ✓ Ground control integration
- ✓ Safety, security, fault tolerant approaches
- ✓ Mission system support
- ✓ Control, guidance, navigation & control
- ✓ Communication, data link
- ✓ Use cases and applications
- ✓ Modeling
- ✓ Sensors and sensor integration, payloads
- ✓ Applications and real world deployments
- ✓ Mobility models

Guidelines for Submission – **submissions are closed**

For paper submission please connect to easychair at <https://easychair.org/conferences/?conf=unmannedandswarmingc>

Papers of approximately 4 to 6 pages including figures and references, or abstracts of 1 page, can be submitted electronically, through the EasyChair conference management system. Authors are suggested to use the standard IEEE conference proceedings templates for Microsoft Word or LaTeX format on A4 size pages that can be found at IEEE website.

All papers, posters, and demos will be judged on originality, significance, correctness, and clarity. It is essential to identify what was accomplished, explain its significance, and include a comparison with previous work. Authors should make every effort so that the technical content of their papers is understandable by a broad audience. All accepted papers will be presented at the conference. The proceedings will be made available online and will be provided as a USB memory key. There will be a printed book of abstracts of all papers for attendees to carry with them at the conference. The organizers are currently working on the possibility to have a special issue of a magazine for selected papers.

Important Dates

~~Initial Paper/abstracts/poster/submission: August 31st, 2018~~
~~Initial submission Author notification: September 15th, 2018~~
~~Late paper/abstracts/poster/submission: September 30th, 2018 (extended)~~
~~Late submission author notification: October 1st, 2018~~
 Workshop: October 10th - 11th, 2018

Organization and Committees

Conference chair

To be announced

Steering committee

Franck Cazaurang	Professor,	IMS, University of Bordeaux
Serge Chaumette	Professor,	LABRI, University of Bordeaux

Pierre Melchior	Professor,	IMS, Bordeaux INP
Kamesh Namuduri	Associate Professor,	University of North Texas
Jean-Louis Roch	Former European Programs Director at Thales, 3AF UAS Tech. Committee,	Teacher at ISAE

Organization committee co-chairs

Serge Chaumette	Professor,	LABRI, University of Bordeaux
Kamesh Namuduri	Associate Professor,	University of North Texas

Organization committee

Publicity Co-Chairs	Christiane Mulat	Aquitaine Council christianne.mulat@nouvelle-aquitaine.fr
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	Stéphane Victor	IMS, Bordeaux University stephane.victor@ims-bordeaux.fr
Local Organization Chair	Nicolas Martin	Bordeaux technowest / CESA Drones n.martin@technowest.com
Finance Chair	Jean-Marc Grolleau	RPAS Aetos Cluster jean-marc.grolleau@fr.thalesgroup.com
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Program committee co-chairs

Franck Cazaurang	Professor,	IMS, University of Bordeaux
Serge Chaumette	Professor,	LABRI, University of Bordeaux
Pierre Melchior	Assistant Professor,	IMS, Bordeaux INP
Kamesh Namuduri	Associate Professor,	University of North Texas