



2021 INTERNATIONAL CONFERENCE ON UNMANNED AIRCRAFT SYSTEMS

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JUNE 15-18, 2021

DIVANI CARAVEL HOTEL
ATHENS, GREECE, GR-16121

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About Greece, see: <http://www.visitgreece.gr>
<http://greeklandscapes.com>

The 2021 International Conference on Unmanned Aircraft Systems, **ICUAS '21**, will be held, again, in Athens, Greece. The conference venue is the luxurious Divani Caravel Hotel, <http://divanicaravelhotel.com>. This decision was reached by 'popular demand' as most registered participants in ICUAS'20 were not able to travel to Greece due to COVID-19. Athens is a metropolitan/cosmopolitan city, the capital of Greece, the birthplace of Democracy, and the home to the world-renowned Acropolis and Parthenon – a city where visitors can walk safely and enjoy the rich, almost 5,000-year-old history it has to offer.

ICUAS '21 presents a unique opportunity to meet, interact and shape the future of unmanned aviation, worldwide. Details may be found at <http://www.uasconferences.com> and related links. **ICUAS '21** is fully sponsored by the **ICUAS Association**, a non-profit organization, see www.icuas.com.

The major themes of **ICUAS '21** are: **AI and autonomy for UAS/RPAS, UAS/RPAS design for safety, reliability and resilience, unmanned – manned swarms, aerial manipulation, and technology standards**, all contributing to building high-confidence systems. National and international organizations, agencies, industry and authorities work towards defining roadmaps of UAS/RPAS expectations, technical requirements and standards that are prerequisite to their full utilization. The next generation of UAS/RPAS will be used for a wide spectrum of civilian and public domain applications. Challenges to be overcome include the topics of interest listed below. Innovative solutions to these challenges will pave the way towards full integration of UAS/RPAS with manned aviation and into the national airspace.

ICUAS '21 aims to bring together different groups of qualified representatives worldwide, funding agencies, industry and academia, to discuss the current state of unmanned aviation advances, and the roadmap to their full utilization in civilian and public domains. Special emphasis will be given to research opportunities, and to 'what comes next' in terms of the essential technologies that need to be utilized to advance the state-of-the-art.

Conference topics of interest include:

Airspace Control	Integration	See/Sense-Detect-and-Avoid Systems
Airspace Management	Interoperability	Security
Airworthiness	Levels of Safety	Sensor Fusion
Autonomy	Manned/Unmanned Aviation	Smart Sensors
Biologically Inspired UAS	Micro- and Mini- UAS	Standardization
Certification	Networked UAS	Technology Challenges
Control Architectures	Payloads	Training
Energy Efficient UAS	Path Planning and Navigation	UAS Applications
Environmental Issues	Regulations	UAS Communications
Fail-Safe Systems	Reliability of UAS	UAS Testbeds
Frequency Management	Risk Analysis	UAS Transportation Management (UTM)

Through keynote addresses, round table discussions and presentations, it is expected that the outcome of the Conference will be a clear understanding of what industry, civilian, national/international authorities need, and what are the crucial next steps that need to be completed before UAS/RPAS are utilized in everyday life applications.

IMPORTANT DATES **February 15, 2021: Full Papers/ Invited Papers/Tutorial Proposals Due**
April 15, 2021: Acceptance/Rejection Notification
May 10, 2021: Upload Final, Camera Ready Papers; Early Registration Deadline

PAPER SUBMISSION: Paper format should follow IEEE guidelines, and electronic submission will be handled through PaperCept - details are available on the conference web site. Submitted papers should be classified as *Contributed* or *Invited Session* (max. 10 pages), or *Poster* (max. 6 pages) papers. Accepted, contributed and invited session papers only, will be allowed up to two additional pages for a charge of \$100 per additional page. Poster papers should be aimed at novel and cutting-edge ideas with potential, however, not yet fully developed.

Invited Sessions: Proposals must be submitted and uploaded electronically. A Summary Statement describing the motivation and relevance of the proposed session, paper titles and author names must be uploaded electronically by due date. Authors must also submit full versions of invited papers electronically, marked as *Invited Session Paper*.

Workshops/Tutorials: Proposals for workshops/tutorials should contain title, the list of speakers, and extended summaries (2000 words) of their presentations. Proposals must be sent by e-mail to the Tutorial/ Workshop Chair by due date.

Review Process: All papers will undergo a peer review process following IEEE rules/policies, and they will be checked using the *iThenticate Document Viewer Guide* for originality. Authors are encouraged to accompany their presentations with multimedia material, which will be included in the Conference Digital Proceedings.

Paper presentation: Contributed/Invited Session papers will be grouped in Technical Sessions and will be allocated 20 minutes for oral presentation, which includes questions from the audience. Poster papers will be grouped based on subject. Presenters are encouraged to supplement the poster with additional slides, video or software demonstrations, etc. All poster paper presentations will be scheduled in one day.

For any additional information about **ICUAS '21**, and about mixing business and pleasure while in Athens / Greece, please e-mail Kimon Valavanis, kimon.valavanis@du.edu.