The 2018 International Conference on Unmanned Aircraft Systems, ICUAS’18, will be held on June 12-15, in the Dallas Marriott City Center, http://www.marriott.com/hotels/travel/daldt-dallas-marriott-city-center that is situated in the heart of a vibrant Arts District area. June 12 will be a Workshop/Tutorial day, followed by a three-day technical Conference on June 13-15. Judging from the interest ICUAS has drawn over the past eight years and its growth, ICUAS’18 is again expected to continue on this path and attract the highest number of participants from academia, industry, federal and state agencies, government, the private sector, users, practitioners and engineers who wish to be affiliated with and contribute technically to this highly demanding and evolving field. Details may be found at http://www.icuasconferences.com and related links. ICUAS’18 is fully sponsored by the ICUAS Association, which is a non-profit organization. Information about the Association may be found at http://www.icuas.org. The theme of ICUAS’18 will be twofold: UAS/RPAS design for assured autonomy and regulations, policies, procedures, regulations, legal and ethical issues that are essential to allow for integration of UAS/RPAS in the national airspace. National and international organizations, agencies, industry, military and civilian authorities are working together defining roadmaps of UAS expectations, technical requirements and standards that are prerequisite to their full utilization, as well as legal, policy and ethical issues. The next generation of UAS is expected to be used for a wide spectrum of civilian and public domain applications. Challenges to be faced and overcome include, among others, see-and-avoid systems, robust and fault-tolerant flight control systems, payloads, communications, levels of autonomy, manned-unmanned swarms, network-controlled swarms, as well as challenges related to policies, procedures, regulations, safety, risk analysis assessment, airworthiness, certification issues, operational constraints, standardization and frequency management, all of paramount importance, which, coupled with smart, environmentally friendly cutting edge technologies will pave the way towards full integration of UAS with manned aviation and into the respective national airspace.

ICUAS’18 aims at bringing together different groups of qualified military and civilian representatives worldwide, organization representatives, funding agencies, industry and academia, to discuss the current state of UAS advances, and the roadmap to their full utilization in civilian and public domains. Special emphasis will be given to current and future research opportunities, and to ‘what comes next’ in terms of the essential technologies that need to be utilized to advance further UAS. Conference topics include:

- Airspace Control
- Airspace Management
- Interoperability
- Levels of Safety
- Manufacturing
- Manned/Unmanned Aviation
- Micro- and Mini-UAS
- Standardization
- Networked UAS
- Technology Challenges
- Path Planning and Navigation
- UAS Applications
- UAS Communications
- UAS Testbeds
- Risk Analysis
- UAS Transportation Management

Unmanned system autonomy, collaboration and coordination, formation control, validation and verification and unmanned system design for assured autonomy, are topics of great interest to ICUAS’18.

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

CALL FOR PAPERS

Full Papers/Invited Papers/Tutorial Proposals Due:
April 15, 2018:
Acceptance/Rejection Notification:
May 7, 2018:
Upload Final, Camera Ready Papers:
April 15 – May 7, 2018:
Early Registration

PAPER SUBMISSION

All papers must be submitted and uploaded electronically. Go to https://controls.papercept.net. Click on the link “Submit a Contribution to ICUAS’18” and follow the steps. The paper format must follow IEEE paper submission rules, two-column format using 10 point fonts, Times New Roman. Submitted papers should be classified as Contributed, Invited Session, or Poster Session papers. The maximum number of pages for a contributed/invited paper submission is 10, and for a poster paper is 6. For accepted contributed/invited submission papers, up to two additional pages will be permitted for a charge of $100 per additional page. Illustrations and references are included in the page count. Invited and Special Sessions. Proposals for invited/special sessions must be submitted/uploaded electronically. A Summary Statement describing the motivation and relevance of the proposed session, paper invited titles and author names must be uploaded electronically no later than February 12, 2018. Authors are encouraged to accompany their presentations with multimedia material, which will be included in the Conference Proceedings.

Conference Proceedings will be acquired by IEEE and they appear in IEEE Xplore.

For information about the ICUAS Association, Inc., see www.icuas.com.