

# UAV'10

## 3<sup>rd</sup> INTERNATIONAL SYMPOSIUM ON UNMANNED AERIAL VEHICLES

June 21-23 2010, Al Bustan Rotana Hotel

Dubai, United Arab Emirates

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UAV'10 the 3<sup>rd</sup> International Symposium on Unmanned Aerial Vehicles, will be held in parallel and in federation with CAD'10, the 2010 International CAD Conference and Exhibition, for the first time in Dubai, one of the most rapidly growing and modern cities in the world, during the week of June 21. Details about the meeting, exhibition, the conference venue and travel, may be found at <http://www.uavconferences.com> and related links.

Unmanned Aircraft Systems (UAS) related research and development has reached the level of maturity that allows national and international organizations, agencies, industry, military and civilian authorities to speak openly about their upcoming integration into the national airspace. Although military applications of UAS have dominated the field, future applications will also center on civilian domains and public safety related areas, including environment protection and monitoring. Challenges to be faced and overcome include policies, procedures, regulations, safety, risk analysis assessment, airworthiness, certification issues, operational constraints, standardization, frequency management, levels of autonomy, networked-controlled swarms, all of paramount importance, which, coupled with 'smart', 'environmentally friendly' cutting edge technologies will pave the way towards integration of UAS with manned aviation and into the respective national airspace systems.

The Symposium 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 military and integration in civilian domains. Focused interests of diverse groups involved in UAS research and development will be discussed. Special emphasis will be given to current and future research opportunities, and to 'what comes next' in terms of the essential technologies that need be utilized to advance further UAS. Symposium topics include but not limited to:

Airspace Control	Navigation
Airspace Management	Networked Swarms
Airworthiness	Payloads
Air Vehicle Operations	Path Planning
Autonomy	Regulations
Biologically Inspired UAS	Reliability of UAS
Certification	Risk Analysis
Communication Challenges	See-and-avoid Systems
Control Architectures	Security
Energy Efficient UAS	Sensor Fusion
Environmental Issues	Simulation
Fail-Safe Systems	Smart Sensors
Frequency Management	Standardization
Integration	Swarms
Interoperability of UAS	Technology Challenges
Levels of Safety	Training
Manned/Unmanned Aviation	UAS Testbeds
Micro- and Mini- UAS	APPLICATIONS



Through keynote addresses, invited and solicited presentations, it is expected that the outcome of the Symposium will be a better understanding of what industry, the military and civilian national and international authorities need. The Symposium will be a three-day event with Keynote and Plenary presentations in the morning and afternoon. In addition to paper presentations there will be Tutorials and Panel Discussions with experts from industry, civilian and public authorities, and the military.

### IMPORTANT DATES

<b>December 10, 2009:</b>	<b>Full papers due</b>
<b>February 28, 2010:</b>	<b>Acceptance/rejection notification</b>
<b>March 31, 2010:</b>	<b>Final, camera ready papers due</b>
<b>April 30, 2010:</b>	<b>Early Registration</b>

### PAPER SUBMISSION

Papers must be submitted / uploaded electronically using the conference paper submission and review system – for details see the website. The paper format must be single-column format, 12 point fonts, Times New Roman. The Springer template may be found at: <http://www.editorialmanager.com/jint/>, or <http://www.springer.com/engineering/journal/10846>. Up to 30 single-spaced pages are allowed for each paper. Illustrations and references are included in the page count. Submitted papers will undergo a peer review process coordinated by the Program Chairs and the Program Advisory Committee Members. Authors will be notified of acceptance or rejection by February 28, 2010. *Accepted papers must be received no later than March 31, 2010.* Along with the final paper, authors of accepted papers must submit their power point presentation. *All accepted peer reviewed papers will be published in USB flash drive Proceedings. Selected accepted papers will also be published in a Special Volume of the Journal of Intelligent and Robotic Systems (Springer), or in a Special Volume Book as part of the Springer series on Intelligent Systems, Control and Automation (ISCA).*

**EXHIBITS:** Groups interested in exhibiting prototypes and/or research results will be allocated a booth in the exhibits hall. Details on exhibition are found at: <http://www.uavconferences.com/Exhibition.html>.