

Research challenges for future Unmanned Aircraft Systems

Tuesday 25th of September 2012

IMA - Université Bordeaux 1 - Mérignac, FRANCE

AETOS cluster and GT UAV from CNRS are pleased to invite you to the first international AETOS conference on the 25th of September 2012: seven renowned keynote speakers will give an overview on UAS research challenges.

This conference will take place in the University of Bordeaux in the frame of the Aquitaine Aerodays, the day before the [UAV Show Europe](#) (26th and 27th of September).

Program

08:30 – 8:50	<i>Welcome</i>
08:50 – 9:40	Pr. Robert Mahony , Australian National University, Australia <i>Visual servoing model applied to aerial vehicles</i>
9:40 – 10:30	Pr. Lorenzo Marconi , University of Bologna, Italy <i>Robust aerial docking of a ducted fan</i>
10:30 – 10:50	<i>Coffee Break</i>
10:50 – 11:40	Pr. Kamesh Namuduri , Electrical Engineering, University of North Texas, USA <i>A Smooth-turn Mobility Model for Airborne Networks</i>
11:40 – 12:30	Dr. Nathan Michael , Robotics Institute, Carnegie Mellon University, USA <i>Estimation and Control toward Autonomous Aerial Robot Systems</i>
12:30 – 1:30	<i>Lunch</i>
1:30 – 2:30	Poster session , managed by the working group UAV of CNRS and AETOS Cluster Poster proposals in PDF format must be sent to conference@aetos-aquitaine.fr until September the 3rd . Acceptance letter will be sent by e-mail on September the 10 th .
2:30 – 3:20	Pr. Anibal Ollero , University of Sevilla, Spain <i>Safe operation of UAS systems in risky operations</i>
3:20 – 3:40	<i>Break</i>
3:40 – 4:30	Dr. Claude Samson , INRIA Sophia Antipolis, France <i>Towards a unified approach to the control of aerial vehicles</i>
4:30 – 5:20	Pr. Stefano Stramigioli , University of Twente, Netherlands <i>Coping with time delay in tele-manipulation of flying vehicles</i>

A complete description of each talk is available on the web: <http://www.aetos-aquitaine.fr/EN/agenda.php?n=5>

Program committee:

GT UAV: Isabelle Fantoni (Heudiasyc, Université de Compiègne), Tarek Hamel (I3S, Université de Nice Sophia Antipolis)

AETOS Cluster: Franck Cazaurang & Pascal Fouillat (IMS, Université Bordeaux 1), Serge Chaumette (LABRI, Université Bordeaux 1)

Location & registration:

Both 2012 AETOS conference and the [UAV-Show Europe](#) are located in **Bordeaux Mérignac Airport area**. Conference takes place in the **lecture hall of IMA** (Institut de Maintenance Aéronautique), located *rue Marcel Issartier - 33700 Merignac*. – [Locate it with Google Map](#)

This 1st international AETOS conference is **free of charge** but the number of attendees will be limited to 130 persons, due to the size of the lecture hall. Thus, **registration is mandatory** for all participants.

For any registration demand, please indicate your name and affiliation to conference@aetos-aquitaine.fr. You will receive a return e-mail, to confirm your registration or not.

Please note that the day before, on Monday 24, a visit of IMS and Labri laboratories will be organized. **If you want to join it, thank you to specify when asking for registration.**