International Symposium

Enhanced Solutions for Aircraft and Vehicle Surveillance Applications

ESAVS 2016

Berlin, Germany

07 – 08 April, 2016

Call for Papers

organised by the
German Institute of Navigation
Deutsche Gesellschaft für Ortung und Navigation e. V. (DGON)

Introduction

International air transport drives the global economy. The increasing air traffic volume, along with economic demands for increased capacity and efficiency as well as environmental pressure require next generation surveillance solutions. These solutions involve technologies and procedures operating in the air and on the ground as well as at airports in support of SESAR 4D-trajectory/ASAS and A-SMGCS operational concepts.

This implies the need for accurate and high update rate sensor technologies such as wide area multilateration (WAM) and airport surface multilateration (MLAT), ADS-B/C over-satellite and techniques to reliably detect remotely piloted aircraft systems (RPAS) as well as unmanned aerial vehicles and systems (UAV/UAS) in the future. Furthermore, the augmentation of cooperative surveillance by means of non-cooperative surveillance techniques in critical operational environments is of utmost importance. Innovative solutions for guidance and control functionalities on the airport surface (A-SMGCS, CDM, RTO, MSPSR), new system architectures, algorithms for multi-sensor data fusion and tracking have to co-operate efficiently with legacy infrastructures such as ASR and SMR. Here, related applications are ADS-B over satellite (AoS), collaborative decision-making (CDM) on airport operations as well as ideas such as total airport management (TAM) or performance-based airport management (PBAM) and first installations of remote tower operations (RTO) using visual sensors in addition to surveillance augmentation.
Since the successful start of ESAVS symposia in 2007, these technologies have gained continuous momentum and are now deployed operationally on a large scale all over the world.

ESAVS is the globally recognised premier event for emerging civil aviation surveillance technologies and operational applications. ESAVS 2016 in Berlin, Germany, will carry forward this momentum and will focus on international implementation and operational use of surveillance technologies and applications as well as on research and development, deployment and certification.

ESAVS 2016 is dedicated to providing up-to-date information to experts and decision-makers in the world of sensor development, tracking, data fusion, avionics and airport operations as well as air traffic control procedures and technology.

Main topics
The Symposium will focus on:
- Sensor development
- Sensor data fusion
- Data processing
- Operational applications
- Situation awareness
- Standardisation
- Certification
- Testing and validation
- Environmental issues

Language
The Symposium language will be English.

Contributions
Authors are invited to submit papers on any of the main topics for consideration by the Programme Committee.

Abstracts shall contain about 500 words/minimum one page, show a main item or result of the topic (photo, table, illustration, etc.) and are to be submitted electronically by

15th December 2015

to

German Institute of Navigation (DGON)
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(online abstract submission form)

The cover page of submitted abstracts shall include:
- Title of paper / contribution
- Name(s) of author(s)
- Organisation / company (if applicable)
- Mailing address
- Phone and fax numbers
- E-mail address
- Identification of presenting author

Authors will be notified of accepted / rejected papers by 29th January, 2016.
Deadlines

Submission of abstracts: 15th December, 2015
Notification of authors: 29th January, 2016
Distribution of programme: 19th February, 2016
Submission of full papers for symposium proceedings: 4th March, 2016

Conference Location

MARITIM proArte Hotel Berlin
Friedrichstrasse 151
10117 Berlin, Germany

Technical Exhibition

Manufacturers, developers or service provider of equipment and components complementing the topics of the Symposium are invited to display state-of-the-art hardware and software. The exhibition will be held in the conference area.

Potential exhibitors are requested to contact DGON via e-mail: dgon.bonn@t-online.de

Programme Committee

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