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**Gaspare Galati**, *Tor Vergata University, Italy*

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**Piet van Genderen**, *Technical University Delft -  
IRCTR, The Netherlands*

**Technical Program Committee**

List on the WEB site:

<http://radarlab.disp.uniroma2.it/esav.htm>

MAIN TOPICS:

- ADS-B implementation, services, equipage and applications
- ADS-B at airports
- Wide Area Multilateration
- Multilateration at Airports
- Radar technology for airport surveillance
- PSR and SSR technology for Air Traffic Surveillance
- GNSS - applications to Air Traffic Management
- Safety issues, solutions and standards
- Interoperability between commercial, military and G.A.
- Integration of unmanned aircraft systems (UAS)
- Dual-use applications (security, defence)
- Systems and Subsystems: Architectures, New concepts
- Passive location based on time, Doppler, angle Measurements
- Sensor data fusion
- Technologies (hardware, firmware, software)
- Environmental aspects (including radio propagation)
- Testing and Field Analysis, Integrity Monitoring
- Implementation plans and Operational results

Tyrrhenian International Workshop on Digital Communications  
Enhanced Surveillance of Aircraft and Vehicles - 2011



September 12 – 14, 2011 - CAPRI, Italy

**esav '11**

organised by:

**cnit** National Inter-University Consortium  
for Telecommunications of Italy

**AVITO**  
VOLTERRA

**UNIVERSITÀ degli STUDI di ROMA  
TOR VERGATA**

<http://radarlab.disp.uniroma2.it/esav.htm>

## FOREWORD



Air Traffic Management (ATM) systems and airport systems are rapidly evolving to meet increased efficiency, safety, security, environmental and business demands. A deep evolution with radical changes of the current Air Traffic Management System is going on both in Europe, with the SESAR program, and in the USA (Nex Gen program). New architectures are needed for modern control and traffic management systems in air and in ground operations, as well as for service vehicles on the airport surface. The related Communications, Navigation and Surveillance (CNS) infrastructures permit enhanced positioning and identification means such as Multilateration (MLAT) and Wide Area MLAT (WAM), automatic dependent surveillance (ADS-B) and automatic vehicles location and management. Radar techniques, including the novel Passive Coherent Location, and Multistatic techniques, still pre-operational or in research phase, permit detection and location of non-cooperating aircraft.

Most of these enhanced surveillance means are both spatially and logically distributed. In this frame, new system architectures and new algorithms for integrity monitoring and for multi-sensor data fusion are required. Security and defense systems use similar algorithms for passive location of targets based on measurements of Time, Doppler frequency, angle/direction.

Following the successful Symposia ESAVS 2007 in Bonn/Germany, ESAV'08 in Capri/Italy and ESAVS 2010 in Berlin/Germany, ESAV'11 is dedicated to provide up-to-date information to researchers, operational experts and decision makers in the world of sensors and systems development, tracking, sensor data fusion, avionics and airport operations as well as of the pertaining air traffic control procedures.

## Paper review and acceptance procedures (EDAS)

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## WEB manager, Technical Support, Editing of Proceedings

Sergio Pandiscia, Tor Vergata University  
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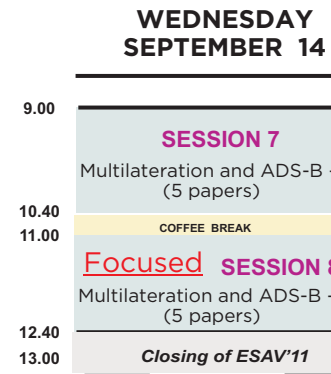
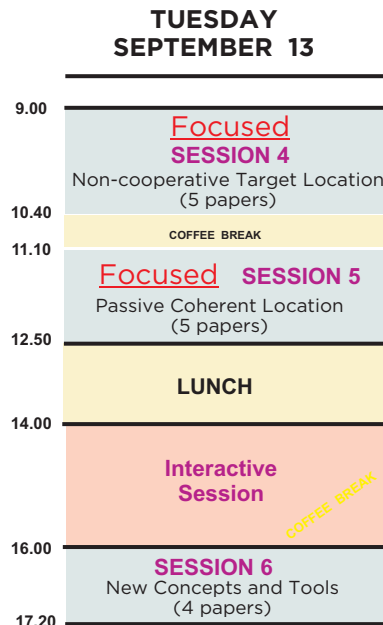
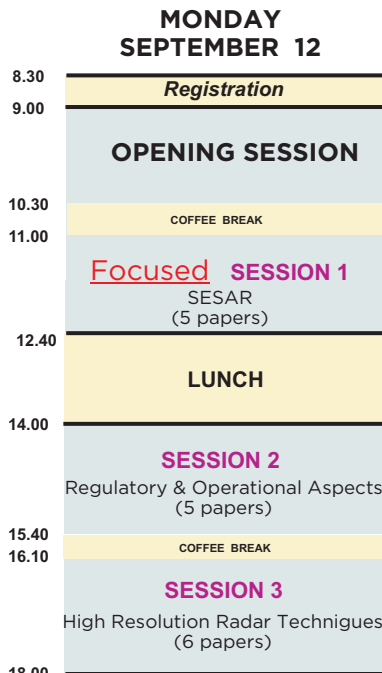
## Local arrangements, Letters for VISA, Accommodation, Sponsor

Mauro Leonardi, Tor Vergata University  
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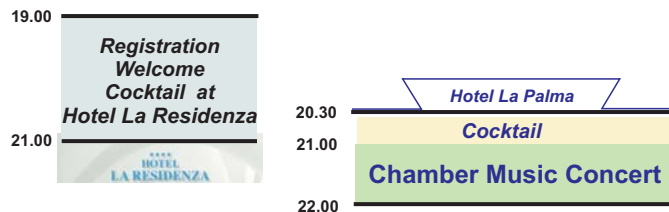
## Finance, Registration, Publicity

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## TECHNICAL AND SOCIAL PROGRAMME



## SUNDAY SEPTEMBER 11



## IMPORTANT DATES

- Early reservation of rooms at Hotel LA RESIDENZA Capri at reduced price before:  
**30 June 2011**
- Request for VISA application letter by the University (Mauro Leonardi) before:  
**15 July 2011**
- Registration (without additional handling fee) before:  
**6 Sept. 2011**

## General Information and WEB site

The papers will be published in the ESAV'11 USB module and a Proceedings booklet will be provided at the Workshop.

## More information on:

<http://radarlab.disp.uniroma2.it/esav.htm>

## Workshop Site

Hotel LA RESIDENZA\*\*\*\* Capri

<http://www.laresidenza.com>

## Travel info

<http://www.capri.com/en/index>

<http://www.capritourism.com/en/home>

The Trenitalia national railway network links all the major Italian cities with Naples.

[http://www.ferroviedellostato.it/homepage\\_en.html](http://www.ferroviedellostato.it/homepage_en.html)