

## ÉVÉNEMENT

# Tyrrhenian International Workshop on Digital Communications - Enhanced Surveillance of Aircraft and Vehicles - 2008

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

### OBJECTIVES

The need for increasing safety and efficiency levels in the air transport system requires modern control and traffic management (ATM) systems for aircraft in air and in ground operations, as well as for service vehicles on the airport surface. The related Communications, Navigation and Surveillance (CNS) infrastructures call for enhanced positioning and identification techniques such as Multilateration (MLAT) and Wide Area MLAT (WAM), automatic dependent surveillance (ADS-B), automatic vehicles location and management (AVMS). These enhanced surveillance means are spatially distributed (i.e. with many receiving or transmitting/receiving stations) and logically distributed (i.e. with local and central processing and with fusion of different information sources, including the traditional primary and secondary radar). In this frame, new system architectures and new algorithms for integrity monitoring and for multi-sensor data fusion are required.

Security and defence systems use similar algorithms for the passive location of targets based on measurements of Time of Arrival (TOA) and its differences (TDOA) as well as of Doppler frequency and its differences (FDOA), possibly combined with angular/direction m (AOA/DOA). Today, the location and surveillance means are more and more relevant also in the frame of the emerging "dual use" of surveillance and identification systems and of the commonalities of location algorithms in the different applications. Therefore, the National Inter-University Consortium for Telecommunications of Italy (CNIT) has decided that his 2008 Tyrrhenian International Workshop on Digital Communications (Capri, 3-5 September 2008) will be devoted to the ESAV (Enhanced Surveillance of Aircraft and Vehicles) area, with the name TIWDC/ESAV'08.

### TECHNICAL PROGRAM COMMITTEE AND INTERNATIONAL POINTS OF CONTACT (PoC)

- Simon Atkinson (PoC, U.K.)
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- Daniel Muller, SEE, France
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- Melvyn Rees (PoC, Eurocontrol)
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- John Scardina (PoC, JPDO/FAA)
- Roberto Sorrentino (EuMA)
- Filippo Tomasello (PoC, EASA)
- Guido Vannucchi (PoC, AICT)
- Felix Yanowski, Natl. Aviation Univ., Kiev

September 3-5, 2008  
Island of Capri, Italy

### > Main Topics

In the overall frame of the enhanced, modern surveillance systems for the airport surface (aircraft, vehicles) and for the control of the airspace, the workshop topics include, but are not limited to:

- User Requirements, Standards, Certification,
- Dual-use applications (safety and airport security),
- Systems and Subsystems: Architectures, New concepts,
- Passive location based on time, Doppler, Angle Measurements,
- Assimilation of weather data,
- Sensor data fusion,
- Fusion of data from multiple sources,
- Technologies (hardware, firmware, software),
- Environmental aspects (including radio propagation),
- Testing and Field Analysis, Integrity, Monitoring,
- Implementation plans and Operational results.

### Contact

For more informations visit the website  
<http://radarlab.disp.uniroma2.it/esav.htm>

## ÉVÉNEMENT

# IEEE HISTory of TELEcommunication CONference

<http://www.isep.fr/histelcon/public/page.php?num=2>

### OBJECTIVES

The 2008 IEEE HISTELCON Conference on the History of Telecommunications is the 7<sup>th</sup> in a series of events sponsored by the IEEE History Committee and the IEEE History Center and is organized by the IEEE Region 8 History Council with the technical co-sponsorship of France SEE and UK IET. The profound role optical and electronic communications have had in shaping the modern world, from Chappe, through Morse, to the Internet, makes this an important topic of historical study.

### THEME

The aim of the IEEE Conference is to help build a comprehensive view of Optical and Electronic Communication History through papers investigating formative developments in this history spanning over two centuries.

The developments may include the opening of a new area of application, the invention of a major technique, or the gradual replacement of one dominant technique by another. An important feature of this Conference is the participation of experts from different backgrounds – engineers, historians and others – that should make discussions particularly fruitful.

- Inventors & inventions: developments in communications technologies
- Encoding of messages
- Innovating enterprises
- Systems: communication in military and civil activities
- Communications as museum items
- Technology in society: educating the public
- Session posters

### CONFERENCE COMMITTEE

- Honorary chair: Jean Gabriel Remy (Ministry of Industry, President of IEEE Region 8) ; Alain Bravo (Director of Supelec, President of SEE); Richard Gowen (IEEE History Committee Chair)
- Co-chair: Jacob Baal Schem (Tel-Aviv University) & Jean-Claude Boudenot (Thales Research & Technology)
- Technical chair: Pierre-Eric Mounier Kuhn (CNRS & Université Paris-Sorbonne)
- Finance chair: Christine Nora (IEEE France Section treasurer)
- Local arrangement chair: Amara Amara (Research director of ISEP)
- Publication: Peter Hill (Cranfield University)
- SEE link: Frédéric Jacobée (General Secretary of SEE)
- Scientific advisers: Philippe Picard (AHTI) ; Gérard Eude (Director at France Télécom R&D)
- Web site: Thomas Ea (ISEP Research Department); Balwant Bodara (ISEP Research Department)