

RADAR 2009 - International radar conference "Surveillance for a safer world"

<http://www.radar2009.org>

OBJECTIVES

The French SEE Society (Société de l'Electricité, de l'Electronique, et des Technologies de l'Information et de la Communication) organise RADAR 2009 in Bordeaux, from 12 to 16 of October 2009. The conference will be organized in the frame of the international relations set up between the Institution of Engineering and Technology (IET), the Institute of Electrical and Electronics Engineers (IEEE), the Chinese Institute of Electronics (CIE), the « Institut Français de Navigation », the Institution of Engineers Australia (IEAust) and the SEE.

Bordeaux is now officially included on the list of UNESCO World Heritage sites. This distinction recognises the beauty and unity of style of Bordeaux's architectural heritage, which has developed harmoniously over the centuries and remained remarkably well preserved. The Bordeaux World Heritage site is the largest urban entity to be so honored. It covers 1.810 hectares, or half of the city, from the outer boulevards to the banks of the Garonne river. World wide Wine City, Bordeaux region is also renowned in Europe for its high concentration of Research and Development activities in aeronautics and aerospace domains: 4 universities, 14 higher education Schools, 5.000 researchers, several international companies such as EADS, Thales, Dassault Aviation, Safran and a lot of local companies, employing more than 30.000 persons in aeronautics and aerospace domains.

The RADAR 2009 conference will be held at the Palais des Congrès in Bordeaux.

CONFERENCE BOARD - CHAIRS

- | | |
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| <ul style="list-style-type: none"> • Organizing Committee
Marc Leconte • SEE coordination
Béatrice Valdayron • Program Committee
Marc Lesturgie | <ul style="list-style-type: none"> • Local Organizing committee
Richard Montigny • International Liaison and Tutorials
François Le Chevalier
Awards: Myriam Nouvel |
|---|--|

ABSTRACT SUBMISSION: INSTRUCTIONS FOR AUTHORS

> Deadlines

- The deadline for abstracts submission is **November 30th 2008**.
- The corresponding author will be informed about the acceptance of her/his submitted paper by **March 30th 2009**.
- The final 6-pages papers submission deadline is **May 15th 2009**.

Only electronic abstract web submission is possible for the abstract submission, according to the instructions given below.

Prospective authors should submit the following two documents before 30th November 2008:

- A brief abstract of about 35 words to be included in the program. This abstract must be in Word format.
- An extended abstract of at least 2000 words long and no more than six pages all inclusive. This will be used in the selection of the papers by the Program Committee.

Final papers must be no more than six pages long.

> Writing the paper abstract

Use of the RADAR 2008 template is mandatory and only abstracts following the instructions provided below will be considered.

- **Language:** English.

October 12-16, 2009

Bordeaux, France

> Topics

The conference will focus on new research and developments in the field of radar techniques for both military and civil applications.

- Docking aid, tank gauge
- Surveillance of runways / detection of debris
- Sense and Avoid

> Radar Environment and Phenomenology

- Propagation, Foliage penetration
- Target and clutter signature
- Low Observable design
- Multifunction systems simulation

> Radar Systems

- Ground to air surveillance
- Ground to space surveillance
- Naval and coastal surveillance
- Airborne surveillance
- Fire control radar
- Meteorological radars
- Secondary radar
- ATM systems
- Multifunction, active/passive RF - EW - CNI systems
- Emission Control, LPI Radars
- Networks of sensors
- Multiplatform / Multisite systems
- ECM / ECCM
- Counterstealth detection
- Design/Validation of complex systems

> Remote Sensing from Airborne or Spaceborne Systems

- SAR modes for 2 D and interferometric SAR
- Distributed / bistatic or multistatic systems
- Innovative SAR concepts

> Waveform Design, Beamforming and Signal Processing

- Space-time waveforms / processing (STAP)
- Knowledge Aided (KA) STAP
- Adaptive beamforming
- Coloured / Interleaved transmission, MIMO
- Multifrequency / Multipolarisation techniques
- Target extraction from clutter and jamming
- Detection, CFAR, Tracking after / before detection

> Emerging Radar Applications

- Mine detection,
- Pollution detection, environment monitoring
- Automatic cruise control / security control

> Emerging Technologies

- Bistatic / Multistatic
- Time and frequency synchronization
- Passive detection and location, Triangulation
- Low frequency radar
- Millimeter Radar / Radiometry
- Dual band radar
- Ultra Wide Band radar
- Laser radar
- High Power Solid State
- RF Photonics
- Superconducting oscillators and filters
- MEMS for radar applications
- Conformal, non standard antenna

> Advanced Sub-Systems Technologies

- New antenna concepts
- Wideband antennas and radomes
- Antenna calibration
- Frequency / angular selective structures
- RF filtering
- Future T/R modules
- High speed analog to digital converters
- RF modular architectures
- Integrated modular avionics
- Reconfigurable processing architectures
- Benefits of civilian technologies (COTS)

> Computer Modeling, Simulation and Validation

- Virtual prototyping
- Environment modeling
- Performance evaluation

> Radar Management Techniques

- Multifunction radar / Waveform management
- Data fusion, Resources allocation
- Radar Beam scheduling and planning
- Multi criteria optimization
- Multi-lateration /cooperation of sensors
- A-SMGCS (Advanced- Surface Movement Guidance and Control System)

> Automatic Classification

- NCTR, ATR
- ISAR
- Modeling / learning
- High Range Resolution systems
- Sensor fusion for identification

Contact

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