

# 9th SESAR Innovation Days



Inspiring long-term research in the field of air traffic management

**2 – 6 December 2019**

Hosted by University of Piraeus &  
the National Centre of Scientific Research "Demokritos" Athens, Greece

## About SESAR Innovation Days

The SESAR Innovation Days (SIDs) are the main vehicle for SESAR Joint Undertaking to share progress and disseminate results of its exploratory research programme. Unlike other scientific events in air traffic management (ATM) research, the SIDS focus explicitly on exploratory research. Organised annually since 2011, the SIDS have become a landmark event in the European aviation research calendar. The SIDs will be further strengthened with the support of Engage, the SESAR knowledge transfer network.

This year's SIDS will be hosted by the National Centre of Scientific Research (NCSR) "Demokritos" in Athens, Greece from 2-to 6 December, with the main conference running from 3 to 5 December. The aim will be to showcase results from European exploratory research and to discuss how to advance promising concepts towards industrial research within the SESAR innovation pipeline.

The SIDs are based on an open call soliciting contributions from ATM research. Exhibitions and poster, keynotes and networking events will provide further opportunities to learn about interesting projects and meet like-minded researchers.

This year's SIDs will host once again the annual Young Scientist Award, recognising young scientific talent in the field. It will also for first time welcome teams of data scientists and software developers to participate in a hackathon aimed at finding new ideas and solutions to ATM-related challenges.

## Call for contributions

Researchers from universities, research institutions, airlines, air traffic service providers and industry are invited to submit papers (up to 8 pages) presenting exploratory research within the areas of interest listed below. Papers will be evaluated based on the innovative nature of the ideas, as well as the approach and methods applied.

## Areas of interest include:

- Safety, security and resilience
- Automation, autonomy and robotics
- Human factors and decision support tools
- Uncertainty, applied modelling and optimization techniques
- Complexity, data science and information management
- Machine learning and artificial intelligence
- Aviation economics and business models
- Legal and regulatory aspects and the ATM innovation process
- ATM operations, architecture and performance
- Airspace design and network and flow management
- High performing airport operations
- Advanced air traffic services
- Innovative approaches in environment and meteorology
- Integrated solutions for communications, navigation and surveillance (iCNS)
- Unmanned aerial systems (UAS) and UAS traffic management



Find out how to contribute at  
[www.sesarinnovationdays.eu](http://www.sesarinnovationdays.eu)

founding members



## Call for posters and exhibits

Partners from academia and industry are invited to submit proposals for posters (max 2 posters per subject) and technical exhibits or demonstrations. As well as showing innovative solutions to traditional problems of air traffic management, posters and exhibits may also address wider air transport and air traffic issues, including drone traffic management. Proposals of one page shall be submitted with a detailed description of the subject matter.

**Paper submission deadline: 27 September 2019**

**Notification of acceptance: 7 November 2019**

*All papers (including SESAR contributions) will be triple peer-reviewed. The proceedings will be available for download in electronic form on both the event website and SESAR JU website prior to the event. All SIDs papers are listed in Elsevier's Scopus database.*

*A special edition in a renowned ATM research journal will be published with selected articles from SIDs 2019.*

**Poster/exhibits submission deadline:**

**13 September 2019**

**Notification of acceptance:**

**27 September 2019**

### General chair

David Bowen, SESAR Joint Undertaking

### Programme chair

Dirk Schaefer, EUROCONTROL

### Local organisation chair

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