

ATM-2001

Call for Papers for the 4th USA/EUROPE ATM R&D Seminar

In an effort to foster the realization of a harmonized global Air Traffic Management system, the United States Federal Aviation Administration (FAA) and the EUROCONTROL Organization will jointly sponsor the fourth international seminar on Air Traffic Management Research & Development in Santa Fe, New Mexico, from December 3 to December 7, 2001.

The objectives of the seminar are:

- to create or reinforce working and personal relationships between leading experts and researchers in the ATM R&D community, and,
- to share available results, reach consensus on major issues and present recommendations to decision makers on selected topics.

To meet these objectives, only authors of papers selected by the seminar's Program Committee and selected auditors will be invited for the first three days of the seminar. There will be ample opportunity for direct exchange between participants during and outside the event. In addition, key decision-makers will be invited to attend the final presentation of conclusions and recommendations on the fourth day.

The Program Committee welcomes papers which present results of applied research and development in air traffic operations, addressing topics in areas with potentially high added value to air transport. These areas include, but are not limited to, the following:

- ATM performance assessment, modeling and analysis techniques; gate-to-gate capacity issues, demand forecasting.
- ATM safety assessment, modeling and analysis techniques with regard, in particular, to human factor aspects.
- Applications and integration of human factor concepts in ATM system development.
- Overall system performance objectives (combining capacity, safety, affordability and environmental objectives) and their impact on operational concepts and requirements on human and technology elements.
- Advances in controller support tools and human-centered systems.
- Airline operations including network design (hub and spoke, direct-to, multi-hub, ...), flight/fleet/crew planning, scheduling and real-time AOC operations.
- Flow management issues such as planning on different levels, from regional to national to facility to multi-sector to sector.
- Development of criteria for airspace and air traffic management procedures design to assure operational benefits of new concepts and/or technologies. New procedures and transition issues due to implementation of airborne separation assurance systems are one example.
- Meteorology and environment.
- Modeling and analysis requirements for future concept development and evaluation. This includes system and sub-system performance characteristics and safety levels.

Papers discussing

- fundamental research issues, i.e. innovative systems covering genuine new concepts for controller working position (CWP) tools, human factors, computational techniques and new ATM paradigms,
- infra-structural issues (airports, surface movement, guidance and control systems),
- advances in communication, navigation and surveillance, or, information technology in general,
- system architectural aspects,

will be considered if they pertain to air traffic operations.

All interested researchers are invited to submit an **extended abstract** or **draft paper** (referred to as draft hereafter) of the technical paper they want to present.

The selection of papers for the seminar will be based on this draft, which must be unclassified and describe the work to be presented with approximately 2000 to 3000 words. Preference will be given to papers that document significant advances and results obtained in one of the areas listed above.

Each draft should begin with an abstract, enabling (with 100 to 300 words) the reader to understand the main ideas of the work, its relevance for air transport and to allow for classification according to the areas given above. An introduction should then assess the international state-of-the-art relevant to the work described and explain the paper's main contributions. The body of the draft should contain sufficient detail to allow thorough evaluation of the paper. The draft may be closed with a summary and conclusions section.

A short biographical notice (no more than 100 words) should provide the readers (and later the auditorium) with background information on the author(s).

The drafts (MS Word format) are to be sent to the Program Chair (see below) not later than **March 15, 2001**.

Authors will be notified of acceptance (or rejection) of their paper by June 29, 2001 and are required to submit final papers (two-columns, 10-/12-point characters/line spacing, PDF format) to the Program Chair by October 15, 2001. Please note that the Program Committee will select the best papers and propose them for publication in professional journals. All draft and final papers as well as general inquiries or suggestions concerning the program or form of the seminar should be directed – preferably via e-mail - to the Program Chair :

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Information on the upcoming seminar will continually be updated and can be accessed on the following Web site:

<http://atm2001.eurocontrol.fr/>

Information on the previous three USA/EUROPE ATM R&D Seminars can be accessed on the following Web sites:

<http://atm-seminar-97.eurocontrol.fr/>

<http://atm-seminar-98.eurocontrol.fr/>

<http://atm-seminar-2000.eurocontrol.fr/>

or through the EUROCONTROL Experimental Center's homepage

<http://www.eurocontrol.fr/events/atmsem/>