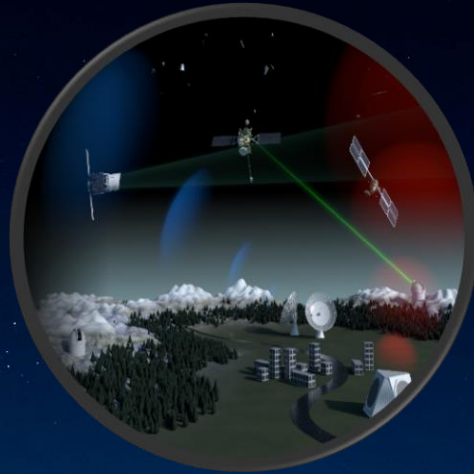


ESA NEO and DEBRIS DETECTION CONFERENCE

EXPLOITING SYNERGIES



ESA/ESOC | Darmstadt, Germany
22 – 24 January 2019

Space safety is of growing concern for all space-faring nations. Both the increasing number of artificial space objects and the near-Earth objects (NEO) population pose a serious threat to our infrastructure in orbit and on ground.

This ESA conference will bring together the NEO and Space Surveillance and Tracking (SST) communities. Collisions with space objects can lead to catastrophic events, destroying satellites and creating more fragments. Space objects and NEOs regularly enter the Earth atmosphere and, if they exceed a given size or composition, fragments can reach the ground.

To support safe operations and to enable the protection of populations and infrastructure, on-ground space surveillance systems and prediction capabilities have been established world-wide.

This international conference will focus on recent progress made by exploring the synergies between search programmes, orbit determination, and risk management for NEOs and space objects. Key aspects of synergies are telescopes and radar systems, instrumentation, observation techniques, data processing approaches, and standardisation of data exchange.

MAIN TOPICS

- Observation strategies - technology improvements of radar, passive optical, and laser systems
- Instrumentation component developments (CCDs, CMOS, ...)
- New telescope and radar projects (e.g. fly-eye telescope)
- Space-based observation concepts
- Space surveillance system architectures and applications
- Detection systems for fireball and other events
- Orbit prediction and determination
- On-orbit and re-entry risk assessments
- Data processing concepts
- Data exchange mechanisms and standardisation

REGISTRATION FEES

Regular fee	€ 350
Students fee	€ 245

Fees include the proceedings, a reception, free lunches and coffee breaks.

ABSTRACT SUBMISSION

Authors are invited to submit their abstracts according to the procedure described below. Each abstract (approximately 500 words) should clearly outline major achievements and innovative ideas.

Papers will be selected on the basis of:

- interest in the subject by the target audience
- relevance to the conference topics
- originality of the ideas presented
- quality and clarity of the content

Papers must be submitted in English, according to the "instructions to authors". English will also be the working language at the conference.

Abstracts must be submitted by 1 Oct 2018. There will be no extension of the submission deadline.

Abstract submission will be possible from 3 September 2018. Registration is not required for abstract submission, but presenters of accepted abstracts must register separately.

A "No Paper – No Podium" rule applies.

IMPORTANT DATES

Start of registration	16 Apr 2018
Start of abstract submission	03 Sep 2018
Deadline for abstracts	01 Oct 2018
Notification of authors	01 Nov 2018
Final programme	03 Dec 2018
Deadline for papers	14 Jan 2019
Conference	22-24 Jan 2019

CONFERENCE VENUE

European Space Operations Centre ESA/ESOC,
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