



VISSA:

VISible detection for Space Applications

Workshop:

24 & 25 November 2026

ESA-ESTEC, Keplerlaan 1, 2201 AZ,
Noordwijk, The Netherlands



AIRBUS
DEFENCE & SPACE



ThalesAlenia
Space
A Thales / Finmeccanica Company



CALL FOR ABSTRACTS

Abstract submission

Please send a short abstract on one A4 page maximum in word or pdf format giving the title, the author name(s) and affiliation(s), and presenting the subject of your talk, to matthew.soman@esa.int and valerian.lalucua@cnes.fr

ESA, CNES, AIRBUS DEFENCE & SPACE, THALES ALENIA SPACE, SODERN, OHB, ISAE-SUPAERO are pleased to invite you to “VISSA: VISible detection for Space Applications”, the 9th iteration of the workshop series known as “Space & Scientific CMOS Image Sensors”.

The aim of this workshop is to focus on latest developments in advanced image sensors for scientific and space applications targeting wavelengths shorter than 1.1 μm .

This workshop is organised within the framework of the Optics and Optoelectronics COMET (Communities of Experts) and is widely open to professional imaging applications beyond space that boost the development of new pixels and sensor architectures for demanding applications, such as machine vision, medical, Advanced Driver Assistance Systems (ADAS), and Broadcast (UHDTV). We also invite laboratories and research centres developing custom image sensors with advanced smart design on-chip, features optimised for X-ray or particle detection, and CMOS readout circuits for hybridised detectors to join this workshop.

Topics

Abstracts shall preferably address one or more of the following topics:

- Pixel design (high QE, FWC, MTF optimization, low lag, ...)
- Electrical design (low noise amplifiers, shutter, CDS, high speed architectures, TDI, HDR, ...)
- On-chip ADC or TDC (in pixel, column, ...)
- On-chip processing (smart sensors, multiple gains, summation, corrections)
- Low-light detection (electron multiplication, avalanche photodiodes, quanta image sensors, ...)
- Photon counting, Time resolving detectors (gated, time-correlated single-photon counting, ...)
- Hyperspectral architectures
- Materials (thin film, optical layers, dopant, high-resistivity, amorphous Si, ...)
- Processes (backside thinning, hybridization, 3D stacking, anti-reflection coating, ...)
- Packaging
- Optical design (micro-lenses, trench isolation, filters, ...)
- Large size devices (stitching, butting, ...)
- High speed interfaces
- Focal plane architectures
- CMOS image sensors with recent space heritage showing in-flight performance

Workshop format & official language

Oral presentations shall be requested for the workshop. The official workshop language is English.

Slide submission

After abstract acceptance notification, the authors will be requested to prepare their presentation in pdf or Powerpoint file format, to be presented at the workshop. Authors will also be required to provide a version to the organizing committee along with an authorization to make it available for Workshop attendees, and on-line for the COMET members. No proceedings will be compiled and so no detailed manuscript needs to be submitted.

Registration

Registration fee : Attendees: 120 Euro // students: 60 Euro

On-line registration link will be sent at registration opening.

Exhibition/Sponsorship:

Booths will be available during the workshop. If you are interested to exhibit, please contact the organizing committee.

Calendar

4 September 2026	Deadline for abstract submission
11 September 2026	Extended (final) abstract submission deadline
9 October 2026	Author notification & preliminary programme
12 October 2026	Registration opening
13 November 2026	Final programme and registration closing
24-25 November 2026	Workshop

Organizing committee

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