Abstract deadline
Extended to
15 October 2021

3AF
Association Aéronautique
et Astronautique de France

OPTRO 2022

10th International Symposium on Optronics in Defence & Security

Versailles • France • 01-03 February 2022

Call For Papers

www.3af-optro.com

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10th International Symposium
on Optronics in Defence & Security

Versailles · France · 01-03 February 2022

OBJECTIVES

3AF – The French Aerospace Society – organizes OPTRO 2022, the 10th International Symposium on OPTRONICS IN DEFENCE AND SECURITY, from 1st to 3rd February, 2022.

OPTRO is the European event for engineers and scientists in the field of Optronics.

For its 10th edition, **OPTRO2022 will reserve special topics to highlight the growing place of Optronics in Defense and Space.** By gathering leading specialists from government, industry, university and laboratories, the Symposium will offer opportunities to implement fruitful exchanges between colleagues of different countries and disciplines.

EPIC Roundtable 2022 will be dedicated to smart optronic detectors.

OPTRO2022 will present recent advances in **Optronics in the fields of Defence and Security** and perspectives that Photonics offers in the near future through emerging technologies.

OPTRO2022 will host an exhibition, within the conference centre, offering to all attendees and exhibiting companies in Optronics areas an opportunity to exchange on technical know-how and products.

PhD's communications will be included in symposium sessions and will be highlighted by the OPTRO 2022 best PhD communication Award.

OPTRO 2022 Award will be attributed on **February 2nd, 2022.**

Keynote Addresses

- Alain **ASPECT**, CNRS
- Jean-François **RIPOCHE**, EDA
- Dan **LEMASTER**, AFRL
- Daniel **DOLFI**, THALES
- Michael **GROENERT**, C5ISR
- ...

Round Table

[Optronics for Space]

PROGRAMME COMMITTEE

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LEFEVRE	Franck	ONERA	FR
LEMASTER	Daniel	AFRL	US
LETALICK	Dietmar	FOI	SE
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LUTZ	Holger	AIM	DE
MATHIEU	Clément	Dassault Aviation	FR
MOULLEC	Jean-Baptiste	DGA	FR
MÜNZBERG	Mario	Hensoldt	DE
PAOLACCI	Sylvie	DGA	FR
PISTONE	Frédéric	Thales Alenia Space	FR
POZO	José	EPIC	FR
RABAULT	Denis	TOSA	FR
ROUX	Jean-Noël	Thales	FR
ROY	Vincent	DRDC-RDDC-VALCATIER	CA
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SCHMITT	Nikolaus	Consulting	DE
SHIMONI	Michal	RMA	BE
SILVER	Mark	Thales	UK
SODNIK	Zoran	ESA/ESTEC	NL
STEIN	Karin	Fraunhofer-IOSB	DE
URIBE	Juanie	C5ISR	US
USAI	Andrea	Ellectronica	IT
VORONTSOV	Mikhail	Dayton University	US
WALTHER	Martin	Fraunhofer-IAF	DE

CALL FOR PAPERS

Original papers are solicited on the following critical areas of research and engineering. Selection for an oral presentation by the Programme Committee will be based on the abstract. All abstract submissions will be assessed by members of the Symposium Programme Committee. The selected contributors will be requested to submit the full paper to the Conference Secretariat.

All accepted and presented communications will be published in the proceedings and distributed at the conference. **PhD's papers are particularly appreciated.**

CONFERENCE TOPICS AND KEYWORDS

_1 Imaging & Systems IR Imaging, SWIR imagers, goggles, binoculars, I2, low light level imaging, airborne piloting and targeting, spectroscopic imagers, intelligent munitions, thermal weapon sights, multi modal (RF/Optro) sensors, multispectral, image fusion, soldier systems, displays, inertial sensors…

_2 Sensors & components: visible detectors, EMCCD, IR uncooled and cooled, superlattice detectors, multi band detectors, 3D FPA, photon counting, optical design, optical engineering, optomechanics, optical materials, windows, domes, finishing methods, optical testing, optical filters, protective coatings, laser damage resistance, cooling systems, adaptive optics, deformable mirrors…

_3 Laser Sensor & Systems: medium and high energy laser, laser weapons, active (2D/3D) imaging, fiber laser, QCL, laser range finder, laser designator, laser polarimetry and vibrometry, laser spectroscopy, lidar, laser radar, air vehicles self protection, laser tracking systems, turbulence corrections…

_4 Signal & Image Processing: multispectral / hyperspectral algorithms, anomaly detection, atmospheric correction, feature extraction, target recognition, performance measurement, tracking, matching and filtering, sensor / data fusion, centralized distributed architecture, adaptive / knowledge based fusion…

_5 Simulation: physical model, analytical model, performance analysis, evaluation means, model validation, simulation, scenario, scene and target generation…

_6 Photonics R&T and Emerging Technologies: micro-nanotechnologies, nanophotonic material, plasmonics, carbon nanotubes, metamaterials, photonic crystals, terahertz, on chip processing, compressive sensing…

_7 Airborne Applications: Airborne lasers and optical measurement (active/passive), sensors (incl. fiber optical sensors), optical navigation, sense & avoid, self-protection, optical communication, for mission or flight critical systems in civil and/or military aircraft , drone payload…

_8 Air, Land & Sea Defence Applications: Reconnaissance, ISR, navigation systems, IRST, naval E.O directors, optronic mast, periscope, avoidance systems, gyrostabilized airborne sights, armored vehicles fire control systems, anti aircraft and antitank systems…

_9 Homeland Security Applications: border surveillance, detection-recognition- tracking and protection against small UAV's and unmanned vehicles, forensics, illicit substance detection, CBRN detection (chemical, biological, radiological, nuclear) (point, standoff), mines detection, explosive compound detection, IED detection, multi sensors sensing, sensors fusion, system integration, detection of underground tunnels / bunkers, UWB radars…

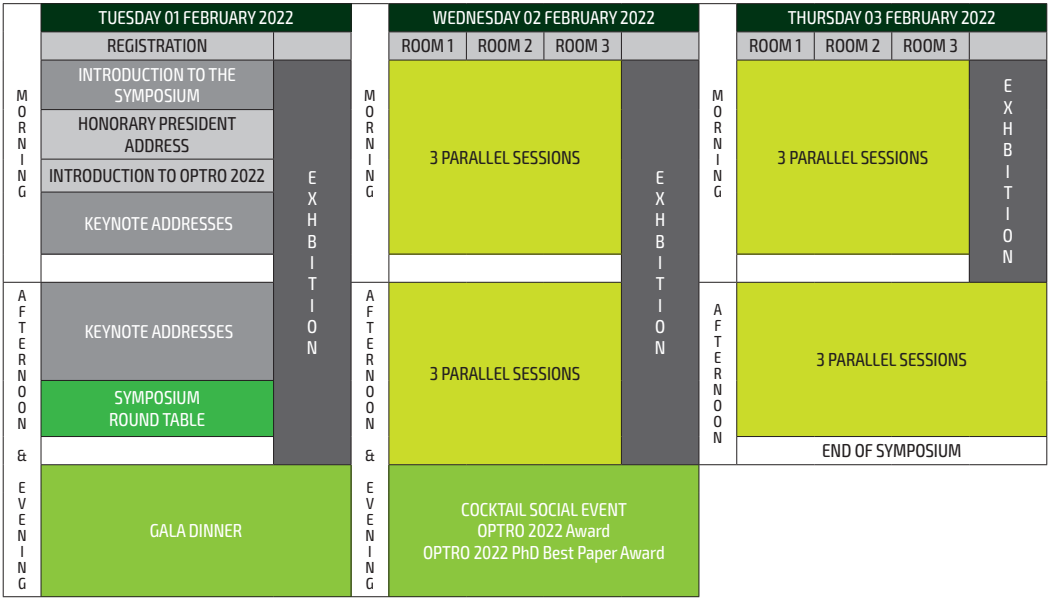
_10 Space Applications: space optical systems, space telescope, space imagers, space cryogenics, Earth observation, mission description, remote sensing, space spectrometers, space lidars and lasers, metrology…

ABSTRACT SUBMISSION

The abstract should give sufficient insight on the paper to be presented at the Symposium and enable the selection for oral presentation.

- The selected papers will be presented in a 20 minutes speech at the Symposium (included 5 minutes for Q&A).
- An abstract will be selected based on the importance and originality of the subject addressed, on its relevance to the conference theme, on the clarity of its expression.
- The abstract should be a "stand alone" summary that can be used in the compilation of abstracts.
- The abstract should be in English and no longer than 500 words.
- The abstract should summarize the main objectives of the paper to be presented and outline its conclusions.
- Work that has been presented elsewhere, and not updated, will be considered inappropriate.
- Notification by the Programme Committees will be accompanied by detailed instructions allowing authors to prepare and make the online submission of their full paper.
- Failure to comply with the deadlines and instructions required will entail not having the paper selected and included in the conference proceedings.
- All abstracts should be submitted www.3af-optro.com Deadline extended to 15 October 2021.

OPTRO2022 AT A GLANCE



Conference milestones :

Abstracts and papers shall be submitted on OPTRO website: **www.3af-optro.com**

Abstract submission site open on **4 June 2021**

Paper submission site open on **18 October 2021**

Final programme: **20 December 2021**

Submission deadlines

Abstract Deadline Extended :	**15 October 2021**
Author Notification :	**22 October 2021**
Full paper Deadline :	**15 December 2021**

Language

Symposium official language is English.
All documents must be in English

NEW - Venue

Palais des Congrès
10, Rue de la Chancellerie 78000 VERSAILLES, France
https://www.versaillespalaisdescongres.com/

Close to the renowned Chateau de Versailles, this new venue is easily reachable from Paris by RER and bus.

Organizing Committee

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Conference Secretariat

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Partners

ONERA THE FRENCH AEROSPACE LAB

EPIC European Photonics Industry Consortium

SFO Société Française d'Optique