

CALL FOR PAPERS

**7th International Symposium on Optronics
in Defence and Security**

**OPTRO
2016**

2 - 4 february 2016
Paris, France

www.optro2016.com

Organised by



Partners





OBJECTIVES

3AF - The French Aerospace Society - organizes **OPTRO 2016, the 7th International Symposium on OPTRONICS IN DEFENCE AND SECURITY**, from February 2nd to 4th, 2016 in Paris (France).

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

OPTRO 2016 Programme overview:

For its 7th edition, **OPTRO 2016** will gather all the leading specialists from government, industry, university and laboratories, and give opportunity to implement fruitful exchanges between colleagues of different countries and disciplines.

OPTRO 2016 will present the status on recent advances in **Optronics in the fields of Defence and Security** and on the perspectives that Optronics offers in the near future, covering the current aspects of Optronics but also addressing emerging technologies in Optronics.

From February 3rd to 4th, 2016, OPTRO 2016 will host an exhibition within the conference center offering to all attendees and exhibiting companies in Optronics 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 2016 best PhD communication Award**. A round table will be organized on "Lessons learned from Military Operations" on February 2nd, 2016.

The **OPTRO 2016 Award** will be attributed on February 3rd, 2016.

A meeting between SMEs and major companies will be organized by EPIC on February 4th, 2016.

Tutorials, organized jointly with IOGS, are proposed the day before the Symposium opening, on February 1st, 2016.

A **Technical Visit** is organized the day after the Symposium, on February 5th, 2016.

PROGRAMME COMMITTEE

ADAM Philippe	DGA /MRIS	LALLIER Eric	TRT
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KOPCZYNSKI Krzysztof	Military University of Technology Warsaw		
KRAUSE Ulf	Jenoptik		

CALL FOR PAPERS

Papers are invited on the areas outlined in the following conference topics. The paper selection will be made on the basis of an abstract describing the topic and interest of the presentation. **Each abstract will be reviewed by members of the Symposium Programme Committee.** After selection of the abstracts, contributors are 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 most welcome.

CONFERENCE TOPICS AND KEYWORDS

OPTRO2016 will open on February 2nd, 2016 with a **plenary session** focusing on presentations by top ranking governmental representatives and eminent personalities from research organizations. Presentations will relate to programs, strategies and the latest researches & developments in advanced Optronics.

The following two and a half days of the symposium will be organized in parallel sessions which will cover the following topics:

- 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 Laser Sensor & Systems:**
medium and high energy laser, laser weapons, active imaging, fiber laser, QCL, laser range finder, laser designator, laser polarimetry and vibrometry, laser spectroscopy, lidar, laser radar, 3D imaging, air vehicles self protection, laser tracking systems, turbulence corrections...
- 3 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...
- 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 (NEW) and Emerging Technologies:**
micro-nanotechnologies, nanophotonic material, plasmonics, carbon nanotubes, metamaterials, photonic crystals, terahertz, on chip processing, compressive sensing...
- 7 Space applications:**
space optical systems, space telescope, space imagers, space cryogenics, Earth observation, mission description, remote sensing, space spectrometers, space lidars and lasers, metrology...
- 8 Technologies for Homeland Security (NEW):**
border surveillance, robots 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...
- 9 Air, Land & Sea Defence Applications (NEW):**
Reconnaissance, ISR, drones, navigation systems, IRST, naval E.O directors, optronic mast, periscope, avoidance systems, gyro stabilized airborne sights, armored vehicles fire control systems, anti aircraft and antitank systems...

INSTRUCTIONS TO AUTHORS

Authors should submit **abstracts by August 15th, 2015** and **full papers by December 1st, 2015**.

Abstracts and full papers will be written in English, saved as WORD™ documents (.doc) or PDF files (.pdf).

Abstracts should be no longer than 500 words.

The person submitting the abstract will be designated as the contact person.

The following information should be joined to the abstract for oral conference: Title, Prime-Author and Company, Co-Authors and Companies, Prime-Author's contact details (complete postal address, phone number, e-mail address).

A list of key words is required.

Please submit your abstract online at www.optro2016.com

NOTIFICATION OF ACCEPTANCE OR REFUSAL

The Conference Programme Committee will notify all the authors of its decision on **September 28th, 2015**. This notification will include detailed instructions allowing selected authors to prepare and send their **finalized paper by December 1st, 2015**. Authors who fail to register and pay by **January 13th, 2016** will not have their presentations printed in the proceedings.

ABSTRACT AND PAPER SUBMITAL MILESTONES

Abstract Deadline	August 15 th , 2015
Author Notification	September 28 th , 2015
Preliminary Programme	October 19 th , 2015
Final Manuscript Deadline	December 1 st , 2015
Final Programme	December 19 th , 2015

VENUE

OECD CONFERENCE CENTRE
ORGANIZATION FOR ECONOMIC CO-OPERATION
AND DEVELOPMENT
2, rue André Pascal
75016 Paris - France
Detailed information on
www.optro2016.com



LANGUAGE

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

ORGANIZING COMMITTEE

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