

CALL FOR PAPERS

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OPTRO 2012

5th International Symposium on Optronics
in Defence and Security

Paris, France

8-10 February 2012

www.optro2012.com

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OBJECTIVES

3AF - Association Aéronautique et Astronautique de France organizes **OPTRO 2012, the 5th International Symposium on OPTRONICS IN DEFENCE AND SECURITY, from 8th to 10th February 2012 in Paris (France).**

The previous edition, OPTRO 2010, has proved to be a great success. This achievement was possible thanks to the participation of a large number of top-ranking delegates from the international optronics sector, to the active participation of International Agencies, to a significant Industry support, and also to the great number of high quality papers presented through the event.

Once again **OPTRO 2012** has the ambition to gather engineers and scientists of numerous countries and disciplines to promote fruitful exchanges.

The programme of **OPTRO 2012** is being organized in such a way as to highlight technical issues, and to address emerging optronics technologies.

A large and professional exhibition will accompany the Symposium and will bring more exchanges.

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 anonymously by members of the Symposium Programme Committee.** After selection of the abstracts, contributors are requested to submit to the Conference Secretariat the full paper. All accepted communications will be published in the proceedings and distributed at the conference.

Poster sessions will be organised for the cases where this mode of presentation is preferred by authors or considered more appropriate by the Programme Committee.



CONFERENCE TOPICS AND KEY WORDS

The symposium will open on day one with a plenary session focusing on presentations by top ranking governmental representatives and research organisations eminent personalities. Presentations will relate to programmes, strategy and the latest research & developments in advanced optronics.

The following two and one-a-half days of the symposium will be organised in four parallel sessions which will cover the following topics:

- **Imaging and 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 sensors, image fusion, soldier systems...)
- **Laser Sensors and 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 correction...)
- **Sensors and components** (visible detectors, EMCCD, IR uncooled and cooled, super lattice detectors, multi band detectors, 3D FPA, photon counting, optical design, optical engineering, optomechanics, optical materials, windows, domes, finishing methods, optical testings, optical filters, protective coatings, laser damage resistance, cooling systems, adaptive optics, deformable mirrors...)
- **Space /Remote Sensing** (space optical systems, space telescope, space imagers, space cryogenics, remote sensing, space spectrometers, space lidars and lasers, metrology...)
- **Signal and Image Processing** (multispectral/hyperspectral algorithmes, anomaly detection, atmospheric correction, features extraction, target recognition, target identification, performance measurement, tracking, matching and filtering, sensor/data fusion, centralized /distributed architecture, adaptative/knowledge based fusion...)
- **Simulation** (physical model, analytical model, performance analysis, evaluation means, model validation, simulation, scenario, scene and target generation...)
- **Emerging Technologies** (micro-nanotechnologies, nanophotonic material, plasmonics, carbon nanotubes, metamaterials, photonic crystals, terahertz, on chip processing...)
- **Displays** (OLED, LCD, LCOS screens, airborne and ground HMD, optics and sensors for HMD, image fusion for HMD, HMD ergonomics, head/eye tracker, augmented reality, dual use HMD, enhanced vision, external vision, binocular eyepieces...)
- **Technologies for Homeland Security and risk management** (border surveillance, robots and unmanned vehicles, forensics, illicit substance detection, CBRN detection (chemical, biological, radiological, nuclear), mines detection, explosive compound detection, IED detection, multi sensors sensing, sensors fusion, system integration, detection of underground tunnels/bunkers, UWB radars...)

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INSTRUCTIONS TO AUTHORS

Authors should submit abstracts by July 15, 2011 and full papers by December 1, 2011.

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

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: Preference for oral conference or poster, 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.optro2012.com

NOTIFICATION OF ACCEPTANCE OR REFUSAL:

The Conference Programme Committee will notify all the authors of its decision on September 28, 2011. This notification will include detailed instructions allowing selected authors to prepare and send their finalized paper by December 1, 2011.

Authors who fail to register and pay by January 11, 2012 will not have their presentations printed in the proceedings.

ABSTRACT AND PAPER SUBMITAL MILESTONES:

Abstract Deadline:	July 15, 2011
Author Notification:	September 28, 2011
Preliminary Programme:	October 8, 2011
Final Manuscript Deadline:	December 1, 2011
Final Programme:	December 15, 2011

LANGUAGE

Please note that the symposium official language is English. All documents must be in English.

CONFERENCE SECRETARIAT

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VENUE

**ORGANISATION FOR ECONOMIC
CO-OPERATION AND DEVELOPMENT
OECD CONFERENCE CENTER**
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Detailed information on
www.optro2012.com



ORGANIZING COMMITTEE

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