OPTRO

8th International Symposium on Optronics in Defence & Security
6-8 February 2018

PARIS, FRANCE 2018

www.optro2018.com

CALL FOR PAPERS
OBJECTIVES


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

For its 8th edition, OPTRO2018 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.

OPTRO2018 will begin on February 6th with a plenary session and present the status on recent advances in Optronics in the fields of Defence and Security and on the perspectives that Photonics offers in the near future, covering the current aspects of Optronics but also addressing emerging technologies in Photonics.

OPTRO2018 will host an exhibition the 7th and 8th February 2018, within the conference centre, offering to all attendees and exhibiting companies in Optronics areas an opportunity to exchange on technical know-how and products.

The OPTRO 2018 Award will be attributed on February 7th 2018.

PhD's communications will be included in symposium sessions and will be highlighted by the OPTRO 2018 best PhD communication Award.

A Technical Visit of Safran reosc is organized the day after the Symposium, on February 9th, 2018. (clearance needed)

AMONG KEYNOTE ADDRESSES

• Tim DE ZEEUW, ESO, European Southern Observatory
• Philippe CRISTOL, IES Montpellier University, Electronics and Systems Institute
• Sébastien TANZILLI, European Quantum Flagship
• Marc SIRVEN, DGA, French Procurement Agency
• Ove STEINVALL, FOI, Swedish Defence Research Agency
• Donald REAGO, NVESD, Night Vision and Electronic Sensors Directorate

PROVISIONNAL ROUND TABLE

“A discriminent technology on the battlefield”
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

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


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 (NEW): 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, UAV payload

8. Air, Land & Sea Defence Applications: Reconnaissance, ISR, UAV payload, 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

INSTRUCTIONS TO AUTHORS

Authors should submit abstracts by August 28th, 2017 and full papers by December 1st, 2017.

Abstracts and full papers will be written in English, saved as WORDTM 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.optro2018.com
NOTIFICATION OF ACCEPTANCE OR REFUSAL

The Conference Programme Committee will notify all the authors of its decision on September 28th, 2017. This notification will include detailed instructions allowing selected authors to prepare and send their finalized paper by December 1st, 2017.

Authors who fail to register and pay by January 13th, 2018 will not have their presentations printed in the proceedings.

SUBMISSION MILESTONES

Abstract Deadline: August 28th, 2017
Author Notification: October 19th, 2017
Final Manuscript Deadline: December 1st, 2017
Final Programme: December 19th, 2017

VENUE

OECD CONFERENCE CENTRE
ORGANIZATION FOR ECONOMIC
CO-OPERATION AND DEVELOPMENT
2, rue André Pascal 75016 Paris – France

Detailed information on www.optro2018.com

LANGUAGE

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

ORGANIZING COMMITTEE

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OPTRO2018 Co-Chairs
Philippe ADAM
Patricia CYMBALISTA
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EXHIBITION

OPTRO2018 Exhibition
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