

# DAT'2020



Since 2000, seven seminars on "detection systems: architecture and technologies" have been organized to create a space of exchange in which eminent researchers and scientists have presented the latest technologies related to the fields of radar, information theory, cryptography, interoperability and the integration of weapon systems.

At the end of the seventh edition organized in 2017 (DAT2017), it was decided by the scientific committee of the seminar to raise the DAT seminar to the rank of an international conference entitled "International Conference on Defense Systems: Architectures and Technologies". This conference edition will be held from 14 to 16 April 2020 in Constantine.

## TOPICS

International Conference on "Defense Systems: Architectures and Technologies" (DAT'2020) aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences, research results and the latest advances on all aspects of Defense Systems and discuss both theoretical and practical knowledge. It is an opportunity to discuss their experiences, new ideas, as well as any practical challenges encountered and/or the solutions adopted during their work. Papers may address, but are not restricted to, the main following topics (unlisted but related sub-topics are also acceptable):

### RADAR AND ELECTRONIC WARFARE SYSTEMS

- o Architectures and systems
- o Antenna and propagation
- o Technology and circuits
- o Signal/data processing and imaging
- o Data exchange and interoperability

### GUIDANCE, NAVIGATION AND CONTROL SYSTEMS

- o Aerial moving objects architectures and systems
- o Aerial systems and unmanned aerial systems
- o Aerial moving objects simulation and augmented reality

### INFORMATION TECHNOLOGY AND TELECOMMUNICATION SYSTEMS

- o Information and networking systems
- o Cryptography and chaotic systems
- o Security systems and cybersecurity
- o Decision making and geographical information systems
- o Artificial intelligence and information technology applied to defense systems

### DEFENSE SYSTEM APPLICATIONS AND CASE STUDY

- o Multi-function/multi-mission radar systems
- o Electronically scanned (aesa, pesa) and digital array radar systems
- o Mimo, miso and simo systems
- o Electronic warfare systems
- o Signal intelligence (sigint, comint, esm, elint), decoy and warning systems
- o Hf and over-the-horizon radar
- o Uwb, jamming, noise and lpi radar
- o Simulation and augmented reality
- o Teledetection and satellite communications
- o Emerging systems and technology

## Submissions & Publication

Papers should describe original and unpublished work about the related topics. Submitted papers will undergo a double-blind review process and accepted papers will be included in the seminar proceeding.

Instructions for preparation and electronic submission are available on DAT'2020 website.

Conference papers will be published by IEEE, included in the IEEE Xplore, and then indexed by EI Compendex. Selected papers will be considered for eventual journal publication.

## Important Dates:

- Paper submission deadline : December 1<sup>st</sup>, 2019
- Notification of acceptance : January 10<sup>th</sup>, 2019
- Final paper submission : February 01<sup>st</sup>, 2020
- Conference dates : April 14<sup>th</sup>-16<sup>th</sup>, 2020

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MINISTRY OF NATIONAL DEFENSE

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INTERNATIONAL CONFERENCE ON  
DEFENSE SYSTEMS  
ARCHITECTURES AND TECHNOLOGIES

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المحاضرة الدولية حول  
أنظمة الدفاع  
هندسة وتكنولوجيات



**DAT' 2020**

APRIL 14<sup>th</sup> -16<sup>th</sup>, 2020

CONSTANTINE, ALGERIA

**DAT' 2020**

من 14 إلى 16 أبريل 2020

قسنطينة الجزائر