



1st Maritime Situational Awareness Workshop
MSAW 2019
Science and technology meet operational needs
 Villa Marigola, Lerici (SP), Italy
 8-10 October 2019



CALL FOR PAPERS **SPONSORS**

The oceans connect nations globally through an interdependent network of economic, financial, social and political relationships. 70% of the Earth is covered in water; 80% of the world's population lives within 100 miles of the coast; 90% of the world's commerce is seaborne and 75% of that trade passes through a few, vulnerable, canals and international straits. The maritime environment includes trade routes, choke points, ports, and other infrastructure such as pipelines, oil and natural gas platforms, and trans-oceanic telecommunications cables.

– NATO Alliance Maritime Strategy (AMS) [2011]



Maritime Situational Awareness (MSA) is widely recognized to be a critical component for a successful decision-making process in a broad range of situations, from emergency response to surveillance and military operations. The achievement of useful MSA leverages from multidisciplinary domains, from environmental sciences and remote sensing, to signal processing, artificial intelligence, and machine learning.

As many other fields, mostly due to the increased availability of sensors and information in general, the maritime has to face the challenge of coping with data of growing volume and complexity. Moreover, information can be variegated and heterogeneous, as well as provided by intermittent, corrupted or possibly irrelevant sources. While expert operators are best placed to provide meaningful situational interpretations, advanced information processing techniques are necessary to cope with the sheer volumes of available data, ensuring more efficient task execution.

With the theme "Science and technology meet operational requirements," the workshop aims to provide a venue for discussion between the scientific and the operational communities and facilitate the scientific and technological transfer to the end users.

TOPICS **COMMITTEE**

Focusing on MSA and any of its components, the aim of the workshop is to bring together scientists, engineers and researchers from the scientific community with national and international authorities, end users and operators, and with industrial representatives. We invite contributions that focus on all aspects of MSA, including, but not limited to:

- Maritime Intelligence, Surveillance and Reconnaissance (MISR)
- Big data in maritime domain
- Machine learning and artificial intelligence
- Anomaly detection and knowledge discovery
- Signal processing and radar applications
- Remote sensing and sensor technology
- Data and information fusion
- Maritime unmanned systems
- User knowledge acquisition and gamification
- Uncertainty modeling and reasoning
- Maritime interoperability (standards, models and services)
- Applied human factors
- Maritime ICT and cyber security

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MORE INFORMATION **DATES**

For further information, please visit MSAW 2019 website at

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PAPER SUBMISSION: 31 May 2019
NOTIFICATION OF ACCEPTANCE: 30 June 2019
REGISTRATION OPENING: 30 June 2019
REGISTRATION CLOSING: 8 September 2019

