

2021 IEEE INTERNATIONAL WORKSHOP ON

Metrology for AeroSpace

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 UNIVERSITÀ DEGLI STUDI DI NAPOLI
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>>>> for the Special Session on

STRUCTURAL HEALTH MONITORING AND NONDESTRUCTIVE TESTING FOR AEROSPACE

ABSTRACT

Within the field of aerospace structural design, Non-Destructive Testing and Evaluation (NDT&E) is one of the most critical aspects. In fact, today, with the aim to guarantee the safety for both persons and components in the aerospace field, a wide range of NDT procedures ensure that not a single manufactured component reaches service without first passing a series of stringent tests. New researches in this field have strategic and essential role in order to reduce the NDT costs and improve the test performance. As natural evolution of NDT procedures, Structural Health Monitoring (SHM) has been developing fast with the aim to reduce maintenance costs and limit design constraints. Continuous monitoring of aerospace components ensures high levels of safety reducing the number of inspections as well. This Special Session aims to represent a forum for researchers and practitioners from industry, academia, and government interested in methods, systems, and devices for NDT and SHM of equipment for aerospace security and maintenance.

TOPICS


Topics for this Special Session include but are not limited to:

- Methods and systems for designing, optimizing, and characterizing NDT instruments and devices;
- New NDT investigation methods;
- New SHM methodologies and damage assessment criteria;
- Methods and devices to optimize the performance of existing NDT techniques;
- Data processing and advanced techniques for NDT and SHM measurements;
- Sensors and Transducers for NDT/SHM in aerospace applications;
- Advanced techniques for NDT measurements;
- Reliability of NDT/SHM;

ORGANIZERS

MARCO LARACCA


University of Cassino, Italy

 m.laracca@unicas.it
LEANDRO MAIO

University of Naples "Federico II"

 leandro.maio@unina.it
VITTORIO MEMMOLO

University of Naples "Federico II"

 vittorio.memmo@unina.it

CONTACTS

 info@metroaerospace.org
www.metroaerospace.org/special-session-3
www.metroaerospace.org

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