PRESENTATION
Since its very first edition in October 1994 the AIVELA Conference on Vibration Measurements by Laser Techniques has established itself as the international forum where research ideas and technological innovation on Laser Vibrometry were presented and exchanged.

The event was initially focused on Vibration Measurements by Laser Techniques and it immediately met large consensus among the International Research Community. In 2010 the Scientific Committee decided to widen the topics of the event by including also other noncontact techniques and the name of the event was changed to International Conference on Vibration Measurements by Laser and Noncontact Techniques.

The Conference aims at creating an active and stimulating forum where current research results and technical advances can be exchanged and the development of new systems for laboratory use, field testing and industrial application can be promoted. For this reason, experts in vibration and acoustics, manufacturers and authorities in the field of optical and non-invasive instrumentation and industrial users of such measurement devices have come from all over the world to present their activities and innovative approaches to vibration measurements.

The 2020 edition of the event will be held in a new venue in a new town, the Faculty of Civil and Industrial Engineering of La Sapienza University in Rome, Italy.

TOPICS
Papers are sought on every aspect of Vibration Measurements by Laser and Noncontact Techniques; the following list of topics is given as guidance:

MEASUREMENT TECHNIQUES
LASER DOPPLER VIBROMETRY
FULL FIELD INTERFEROMETRIC TECHNIQUES
HOLOGRAPHIC TECHNIQUES
ELECTRONIC SPECKLE PATTERN INTERFEROMETRY (ESPI)
SHEAROGRAPHY
SPECKLE TECHNIQUES
FIBER BRAGG GRATINGS (FBG)
VISION BASED TECHNIQUES
OPTICAL SENSORS
RADAR LASER

MICROWAVE INTERFEROMETRY
ULTRASONIC TECHNIQUES
THERMOELASTICITY
PHOTOELASTICITY
SIGNAL PROCESSING TECHNIQUES
MICROSCOPIC LASER-DOPPLER VIBROMETRY
MULTI-CHANNEL LDV
NEW COMPONENTS FOR LDV
PHOTONICS INTEGRATED CIRCUITS FOR LDV
TECHNIQUES TO AVOID SPECKLE EFFECTS
PARAMETER IDENTIFICATION FROM LDV-DATA (LDV SPECTROSCOPY)
VIBRATION DETECTION IN OPTICAL COHERENCE TOMOGRAPHY
TECHNICAL SOLUTIONS FOR SUB-FEMTOMETER LD

APPLICATION AREAS
ACOUSTICS
ACTIVE AND PASSIVE NOISE & VIBRATION CONTROL
VIBRO-ACOUSTICS AND NOISE, TESTING, NOISE
VIBRATION HARSHNESS NVH AND CONTROL
MODAL ANALYSIS
METROLOGY, CALIBRATION AND STANDARDS
NON DESTRUCTIVE TESTING AND DAMAGE DETECTION
INDUSTRIAL DIAGNOSTICS AND QUALITY CONTROL
CIVIL STRUCTURES AND INFRASTRUCTURES
LASERS IN ART CONSERVATION
LASER MEASUREMENTS IN MICROSYSTEMS & NANO
TECHNOLOGIES
TRANSPORT: NOISE VIBRATION HARSHNESS NVH
COMFORT SAFETY
SECURITY
ROTATING MACHINERY
VULCANOLOGY, EARTHQUAKE ENGINEERING
NOISE & VIBRATION IN AGRICULTURE
FOOD PROCESSING
INDUSTRIAL PROCESSING MONITORING AND CONTROL
ELECTROMOBILITY
GRAVITATIONAL WAVE DETECTION
CAVITY OPTOMECHANICS

VENUE
The event will be held at the Faculty of Civil and Industrial Engineering of La Sapienza University in Rome, Italy. The Faculty is situated on the Esquiline Hill, next to the Basilica of St Peter in Chains and within walking distance of the Colosseum.

LANGUAGE
The official language of the Conference is English.

IMPORTANT DEADLINES
Abstract submission
Abstract acceptance
Full paper submission
Early registration (discounted fee)

CALL for PAPERS
Extended abstracts on the topics of the conference must be sent to the Conference Secretariat not later than 10th March 2020. Abstracts should include:
1. Title of paper;
2. Full names of all Authors (the name of the Presenting Author must be underlined) and Affiliation;
3. Text (about 500 words plus supporting figures).

Authors will receive notification of their abstract acceptance and will be given proper instructions for presentation by 17th March 2020.

PROCEEDINGS
The Conference proceedings will be published by IOP Conference Series and indexed in the leading databases of scientific & engineering literature, including Inspec and Scitation. Further details will be shortly available on the Conference website.

SPECIAL ISSUES
Outstanding papers will be considered for possible publication in special issues of renowned journals.

SHORT COURSE
A one-day tutorial course will be held the day before the Conference to provide the fundamentals of vibration measurements by optical techniques. The course will include theoretical lectures in the morning and afternoon hands-on lab sessions organised in collaboration with leading companies in the field.

INVITED LECTURES
Keynote Lectures will be delivered by leading personalities in the field of vibration measurements by laser and non-contact techniques.

EXHIBITION
An exhibition is planned to enable participating organisations to bring their products directly to the attention of potential customers. Leading manufacturers of laser vibrometer systems, non-contact instrumentation and systems for vibro-acoustic testing will exhibit. Additional information can be obtained by returning the Pre-Registration Form.
Pre-Registration Form

Please return to:
A.I.VE.LA. Conference Secretariat
aivela@univpm.it

Title (Mr, Ms, Dr.)

First Name

Surname

Company

Section

Address

Post code/ City

Country

Telephone

Fax

E-mail

Cross one or more entries:

☐ I am interested in the Conference
☐ I am interested in the Short Course
☐ I am interested in exhibiting products and would like to have information on Exhibition facilities and fees
☐ I would like to present a paper

Subject or title of the paper

Suggested session

Date __________ Signature __________________

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Call for papers

14th Intl CONFERENCE on VIBRATION MEASUREMENTS BY LASER AND NONCONTACT TECHNIQUES

& SHORT COURSE

Rome, Italy

23rd – 26th June 2020

Organised in collaboration with

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