

**GREECE, CRETE, RETHYMNO**

**Institute for Mediterranean Studies**

**Foundation for Research and Technology Hellas (FORTH)**

**130 Nikiforou Foka, Rethymno (Greece)**

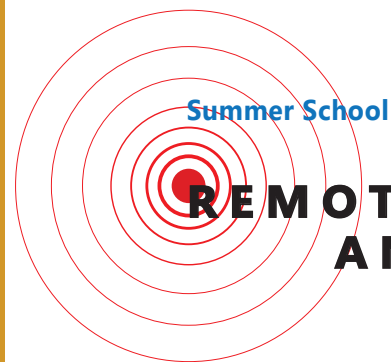
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Summer School

# **REMOTE SENSING METHODS AND STRUCTURAL STABILITY OF HISTORICAL BUILDINGS**

**14-18 September 2020**

**Institute for Mediterranean Studies - FORTH, Rethymno (Greece)**

The summer school addresses state of the art topics concerning:

- Seismic & Fragility Analysis of Structural Units
- Engineering Geology/Geotechnics for Cultural Heritage
- Satellite Remote Sensing
- Photogrammetry, Laser Scanning and Machine Learning

Hands on training will be held for:

- Erdas Imagine
- Change Detection & Classification
- Monitoring Urban Areas with LiDAR data



PROGRAM / SUMMER SCHOOL IN RETHYMNO

MONDAY SEPTEMBER 14	9:30-10:30	<b>Seismic analysis and strengthening measures of structural units in historic centers</b> Prof. Constantine Spyrakos, National Technical University of Athens, Greece
	10:30-11:30	<b>The role of Engineering Geology and Geotechnics for the preservation of Cultural Heritage in a changing environment</b> Dr. Charalampos Saroglou (Teaching & Research Assoc National Technical University of Athens, Greece
	11:30-12:00	Break
	12:00-14:00	<b>Satellite ADInSAR monitoring for heritage preservation: The example of the Vittoriano Monument in Rome downtown (Italy)</b> Prof. Francesca Bozzano and Prof. Gabriele Scarascia Mugnozza, Sapienza University of Rome, Italy
	14:00-15:00	<b>Photogrammetry and Machine Learning for Cultural Heritage</b> Panagiotis Agraftotis, National Technical University of Athens, Greece

TUESDAY SEPTEMBER 15	9:30-10:30	<b>Challenges in Civil Protection planning regarding historic city centers and monuments</b> Nikos Votsoglou, Prefecture of Crete, Greece
	10:30-11:30	<b>CH monitoring with digital technologies: laser scanning and aerial/ground photogrammetry for change detection</b> Dr. Gianluca Cantoro, Foundation for Research and Technology, Greece
	11:30-12:00	Break
	12:00-14:00	<b>Fragility analysis of a masonry structure</b> Giorgos Xekalakis, Petros Christou, Paris Fokaides, Phoebe - Zoe Morsink - Georgali Frederick University, Cyprus

WEDNESDAY SEPTEMBER 16	9:30-10:30	<b>Hands-on training:</b>
	10:30-11:30	<b>Change detection and classification techniques through ERDAS IMAGINE</b> Mr. Christos Kontopoulos – Geosystem Hellas
	11:30-12:00	Break
	12:00-13:00	<b>Hands-on training</b>
	13:00-14:00	<b>Urban areas monitoring using LiDAR data</b> Mr. Christos Kontopoulos – Geosystem Hellas

THURSDAY SEPTEMBER 17	9:30-10:30	<b>Greening urban mobility in tourism destinations</b> Prof. T. Tsoutsos, Technical University of Crete, Greece
	10:30-11:30	<b>Project meeting preparation</b> Alessio Di Iorio, WP leaders
	11:30-12:00	Break
	12:00-18:00	<b>Project Meeting</b> <b>Mid Term Review</b>
	20:30-22:30	<b>Social Dinner</b>

FRIDAY SEPTEMBER 18	9:30-13:00	<b>Project Meeting</b> <b>Mid Term Review</b>
	13:00-14:30	Break
	14:30-16:00	<b>Project Meeting</b> <b>Conclusion and MoM finalization</b>
	16:00-18:00	<b>Excursion</b> <b>Tour in the old town of Rethymno- historical buildings at risk</b>