

YADES 2nd Summer School

Identification of methods for Cultural Heritage risks assessment

The Culture of Heritage | Techniques of analysis, assessment and evaluation | Practical experiences

Recent studies highlight the potential impact of Climate Change and geo-hazards (such as landslides and earthquakes) on historic areas hosting Cultural Heritage sites and monuments, which in turn yield significant adverse impacts on economies, politics and societies. **The deterioration of Cultural Heritage sites is one of the biggest challenges in conservation;** aspects such as building technologies/materials, preventive measures and restoration strategies, resilience and adaptation methodologies must be considered. **Up today there is no specific process towards understanding and quantifying Climate Change effects on historic areas;** combined with the limited strategies on CC-related issues, it becomes difficult to assess quantitatively and qualitatively the impact of various climatic and other parameters on the Cultural Heritage sites. These issues form an integral part of the necessary support that should be provided to governmental bodies and cultural authorities to properly adapt their policies, in the short and long term, towards deploying sustainable mitigation plans and providing efficient reconstruction of the Cultural Heritage parts that have been damaged. Finally, the absence of communities' participatory approaches to the overall planning of the historic areas is a main challenge to tackle. **YADES aims to efficiently train a network of fellows on the field of the resilience of CH areas and historic cities against CC and other types of hazards.** The YADES' network aims

to use proper modelling tools and methods, innovative technologies (terrestrial and satellite imaging for wide-area inspection, advanced machine learning techniques, etc.) **to deliver an integrated platform for resilience assessment of CH areas, addressing multi-hazard risk understanding, better preparedness, faster, adapted and efficient response, and sustainable reconstruction of historic areas.** YADES takes into account the local eco-systems in the areas of interest, mapping out their interactions and follow a truly sustainable reconstruction approach at technical, social, institutional, environmental and economic levels. To this end, it incorporates active communities participation, support new business models based on the concept of a "load-balancing" economy, (using an algorithm that acts like a "reverse proxy", distributing client traffic across different companies within the same sector) and offer financial risk-transfer tools (parametric insurance, Catastrophe-CAT-bonds) that can ensure the immediate funds' availability to fuel timely build-back-better efforts.

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HOW TO PARTECIPATE IN THE SUMMER SCHOOL

Participation is open to professors, researchers, scholars, PhD candidates and Master students interested in the field of risk assessment and management for Cultural Heritage and curious about the ongoing activities of YADES project.

If you want to attend the event, please fill the form at this link <https://forms.gle/ntxhlzYsvoJmEbEN8> or follow the QR code.

REGISTRATION IS MANDATORY!

FOR STUDENTS: Student participation is limited up to a maximum of 40 people.

When filling the online form, you will be required to add a short motivation letter (max 1000 characters) and your CV. You will receive a mail of confirmation after the selection procedure. **NB: Only in presence attendance will provide you a Certificate of Attendance of the Summer School!**



DAY 1

Monday 30th May 2022

OPENINGS 14:00-15:15



Prof. Stefano Capolongo
Head of the Department of Architecture, Built Environment and Construction Engineering (DABC), Politecnico di Milano (POLIMI)



Prof. Julia Nerantzia Tzortzi
Associate Professor of Landscape Architecture at POLIMI-DABC



Prof. Anastasios (Tasos) Doulamis
YADES Coordinator, Associate Professor at National Technical University of Athens (NTUA)



Aleksandra SCHOETZ-SOBCZAK
YADES Project Officer, European Research Executive Agency, Unit REA.A3 - Marie Skłodowska-Curie Actions - Staff Exchanges, EC

KEYNOTE SPEAKERS 15:15-18:45



Maguelonne Déjeant-Pons
Head Landscape, Environment, Major Hazards Division, Executive Secretary Council of Europe Landscape Convention / Chef Division Paysage, Environnement, Risques majeurs, Council of Europe
» *The heritage value of Landscape*



Adam White
Chair of Fellow of the 'Royal Chartered' Landscape Institute
» *A short history of Landscape Architecture and heritage in the UK*



Prof. Michele Caja
Associate Professor of Architectural and Urban Design at POLIMI-DABC
» *An example of urban resilience and reconstruction: the case of Berlin*



Prof. Federico Bucci
Full Professor of History of Architecture at POLIMI-DABC - Mantova UNESCO Chair



Elena Fioretto Ph.D.,
Postdoctoral research fellow
» *The UNESCO Chair and the role of heritage in Mantova MSC program*

📍 Politecnico di Milano, Campus Leonardo, Building 11, ground floor, **aula Rogers**
🔗 <https://politecnicomilano.webex.com/meet/julia.georgi>

DAY 2

Tuesday 31st May 2022

TRAINING SEMINARS 10:00-12:30



Betty Charalampopoulou
President and CEO in GEOSYSTEMS HELLAS
» *Remote Sensing methodologies: Land change/movements, Earth Observation methods and modelling*



Dimitris Tsarpalis
Risk Engineer at Resilience Guard GmbH
» *Socioeconomic modeling of urban Cultural Heritage areas*



Prof. Dimitrios Vamvatsikos
Associate Professor at NTUA
» *Risk and resilience assessment of urban Cultural Heritage areas*

KEYNOTE SPEAKERS 14:00-15:30



Prof. Antonio Longo
Full Professor of Urbanism at POLIMI-DASTU
» *The limits of the urban agriculture*



Prof. Paola Branduini
Researcher in Restoration at POLIMI-DABC



Prof. Lionella Scazzosi
Full Professor of Restoration at POLIMI-DABC
» *Urban agriculture as heritage*

CASE STUDIES SESSION 15:30-17:00



Maria Stella Lux
PhD candidate in Landscape Architecture at POLIMI-DABC
» *Focus Group on Green Infrastructure and Nature-based Solutions in Historical Urban Landscapes*



Elena Persico
Landscape Architect at LAND Italia SRL
» *Creating an Urban Green Infrastructure by regenerating the old Piacenza railway root (Master Thesis awarded by INU)*

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