

SAPIENZA UNIVERSITÀ DI ROMA FACULTY OF ARCHITECTURE FACULTY OF CIVIL AND INDUSTRIAL ENGINEERING DEPARTMENT OF STRUCTURAL AND GEOTECHNICAL ENGINEERING



## DIGITAL INNOVATION

## IN ARCHITECTURE AND ENGINEERING

Open talks on the impact of digitalization, hybrid realities, automation and communication technologies on civil engineering and architecture

## NATO IRIS PROJECT FINAL MEETING

Inspection and security by Robots interacting with Infrastructure digital twin5 October 15, 2024

> Faculty of Architecture, via Emanuele Gianturco 2, Room G33 Google Meet: <u>https://meet.google.com/mky-jbds-dxy</u>

09:00	Welcome speech and IRIS project achievement
	Vincenzo Gattulli (Sapienza University of Rome)
09:20	Digital Twins in Architecture
	Spartaco Paris (Sapienza University of Rome)
09:40	Robotic solutions for the IRIS cases of study
	Erika Ottaviano (University of Cassino and Southern Lazio)
10:00	Automatic inspection of critical infrastructure with drones
	Konrad Wojtowicz (Military University of Technology)
10:20	Long-term structural monitoring and digital twin of steel and glass structures
	Marianna Crognale, Cecilia Rinaldi (Sapienza University of Rome)
10:40	Coffee break
11:00	Defects acquisition of Bytča road bridge
	Lucia Figuli (University of Zilina)
11:20	Enhanced image processing and storage for defect evaluation in BIM of Bytča road bridge
	Dogan Karluklu (Sapienza University of Rome)
11:40	The behaviour of dam Prince Moulay Abdellah during seismic events
	Amine Bendarma (Universiapolis-International University of Agadir), Cecilia Rinaldi (Sapienza)
12:00	IoT and robot-aided sensing and data acquisition for digital twin update in structural health monitoring
	Luca De Vito (University of Sannio)
12:20	Closing speech
	Vincenzo Gattulli (Sapienza University of Rome)



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BEST DESIGN