



POLITECNICO
DI TORINO

DRONES: CURRENT APPLICATION AND FUTURE PERSPECTIVES

Conference organized in the framework of the Digital Photogrammetry and 3D Terrestrial Laser Scanner for Cultural Heritage Survey Workshop and the Unmanned Aerial Vehicle (UAV) for architectural and territorial surveying course.



Event

DRONES: Current application and future perspectives
Dipartimento di Architettura e Design / conferenza

- 14:20 Institutional greetings: Sebastiano Foti (Vice Rector for Education), Paolo Mellano (DAD Director), Rajandrea Sethi (DIATI Director)
- 14:30 Introduction: Filiberto Chiabrandò, Politecnico di Torino (DAD), Andrea Lingua, Politecnico di Torino (DIATI)
- 14:40 DJI - Tautvydas Juskauskas, Public Business Development Manager EMEA (DJI GmbH)
- 15:40 DIRECT - Disaster RECOVERY Team / Nannina Spanò, Politecnico di Torino (DAD)
- 16:00 FULL - The Future Urban Legacy Lab / Matteo Robiglio, Politecnico di Torino (DAD)
- 16:20 PIC4Ser - PoliTO Interdepartmental Centre for Service Robotics / Marcello Chiaberge, Politecnico di Torino (DET)
- 16:40 Break
- 17:00 Drone on the field session - main courtyard

DJI (Dà-Jiang Innovations) is a Chinese technology company headquartered in Shenzhen, Guangdong with manufacturing facilities throughout the region. It is known as a manufacturer of unmanned aerial vehicles (UAV), also known as drones, for aerial photography and videography. DJI also design and manufacture gimbals, flight platforms, cameras, propulsion systems, camera stabilizers, and flight control systems. DJI is the world's leader in the civilian drone and aerial imaging technology industry, accounting for 85% of the global consumer drone market. In 2017 DJI won a Technology & Engineering Emmy Award for its camera drone technology.

DIRECT (Disaster RECOVERY Team) of Politecnico di Torino is a team composed by students of architecture and engineering, which have the goal of achieving and maintaining an education in advanced technologies of 3D Metric Survey and Remote Sensing using UAVs and innovative techniques. DIRECT works on all phases of Disaster Management (DM), with the analysis of environmental vulnerability and the immediate response to emergencies in post-disaster relief, going through the phase of Capacity Building. This initiative aims to actively contribute to the protection of the territory, the architectural patrimony, the archaeological heritage and in case of environmental emergencies.

FULL (Future Urban Legacy Lab) is a new interdisciplinary research laboratory of PoliTo that aims at bridging knowledge of the past and visions for the future, brewing humanities and technologies, to design socio-technic innovation scenarios for relevant global urban challenges with a long-term perspective (2050) and support decision makers, communities and entrepreneurs in their short and mid-term choices by producing evidence-based projects with measurable effects.

PIC4Ser (PoliTO Interdepartmental Centre for Service Robotics) aims to coordinate the activities of several research groups, already active in the various departments, on the enabling technologies necessary for the development of this highly innovative and multi-disciplinary area. The goal of the PIC4Ser Centre is to create a common physical environment as well as a community, in which tools and skills can reside to organically synthesize the characteristics of different application scenario's (precision agriculture, smart cities, search&rescue, patrolling and early warning systems, life support for elderly and disabled people, rehabilitation, archaeological survey/security/protection, etc.) and their related robotic experimental solutions.

Curators: Alessio Calantropio, Filiberto Chiabrandò, Andrea Lingua



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dell'Ambiente, del Territorio
e delle Infrastrutture



DIRECT
DISASTER RECOVERY TEAM

Future
Urban Legacy
Lab



PIC4Ser

Giovedì 3 maggio 2018
ore 14:20-17:30 - Salone d'Onore
Castello del Valentino
viale Mattioli 39 - 10125 TORINO

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