

ADVANCED COMPUTING AND BIG DATA



POLITECNICO
MILANO 1863

DIPARTIMENTO DI
INGEGNERIA CIVILE E AMBIENTALE



20th October 2021



9.00 – 14.00 CET



Aula Rogers (PolIMI,
Via Ampère, 2)
and Online on Webex

GUEST SPEAKER

Michael Ortiz,
Frank and Ora Lee
Marble Professor of
Aeronautics and
Mechanical Engineering -
California Institute
of Technology



Green Pass

To attend the event in
presence, it is mandatory to
have a Green Pass



Online on Webex

Meeting link:
<https://www.webex.com/jt/est-meeting.html>

TIME	SPEAKER	TITLE
9:00-9:05	Alberto Guadagnini	Welcome
9:05-9:05	Invited speaker: Michael Ortiz	Model-Free Data-Driven Computing: The Data, all the Data and nothing but the Data
9.45-10.00	Discussion	
10.00-10.15	Valentina Zega	Nonlinear dynamics in MEMS: a Model Order Reduction Technique based on the Implicit Static Condensation
10.15-10.30	Attilio Frangi	Model Order Reduction Strategies for Nonlinear Micro-Electro-Mechanical Systems
10.30-10.45	Stefano Mariani	Multi-scale deep learning model for uncertainty quantification at the microscale
10.45-10.55	Paola Gattinoni	Young researchers Best posters Award
10.55-11.20	Coffee break and posters session	
11.20-11.35	Matteo Bruggi	Structural optimization for metal 3D printing
11.35-11.50	Gianandrea Messa	Challenges in the Numerical Modelling of Slurry Erosion
11.50-12.05	Massimiliano Cremonesi	Lagrangian finite element approach for the simulation of large-scale engineering problems
12.05-12.20	Maria Cristina Rulli	Big data for unravelling the environmental and human health impacts of unsustainable food production
12.20-12.35	Manuela Antonelli	Artificial intelligence and big data: perspectives for water and wastewater treatment and management
12:35-12.50	Final discussion	

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