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
at the 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://politecnicomilano.web
ex.com/meet/paola.gattinoni

Cisco webex

TIME	SPEAKER	TITLE
9:00-9:05	Alberto Guadagnini	Welcome
9:05-9:45	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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