

HPC for Industry 4.0

Milan 21-23 May 2019

AGENDA

21 May	Company	Speaker	Title
AI:What can we do with the AI?			
9:15	CINECA	Mirko Cestari	Introduction
9:30	UNIFE	Prof. Fabrizio Riguzzi	What is AI?
10:00	Axyon	Giacomo Barigazzi	AI and Deep Learning in Finance: applications, limits, impact and use-cases.
10:30	Injenia	Luca Paganelli	Real deep learning applications to create effective digital twins
11:00			
11:30	UNIBO	Andrea Borghesi	AI in HPC: Machine Learning and Optimization for Better Decisions in Data Centers and Industry
12:00	Bioretics	Matteo Roffilli	Machine & deep learning for the acceleration of image interpretation processes in industry and medical imaging
12:30	Nokia	Chiara Rampini	Leveraging AI for extreme automation at Nokia Global Services
13:00			
13:30			
BigData and Analytics: How can I manage and analyze data in a scalable and smart way?			
14:00	Leithà (Unipol)	Francesco Lerro	How to build a serverless data pipeline for Insurance Telematics and sleep at nights
14:30	Porini1968	Mario Gennari	Collect, Manage and Analyze data in a scalable way using Microsoft Azure AI & Cloud capabilitiesin Manufacturing
15:00	Datalogic	Alessandro Chiarini	Datalogic: vision and challenges for Industry 4.0
15:30			
16:00	UNIPV	Alessandro Spelta	Network based credit risk models
16:30	DataRiver	Marco Pacchioni	MyHealth IoMT Platform: IoT and Big Data in Healthcare
17:00	Engineering	Monica Franceschini	Dive Analytics: a data-driven solution for performing predictive maintenance through Big Data technologies
17:30	Moxoff	Matteo Longoni	Extract your value from your data

22 May	Company	Speaker	Title
HPC & Simulation: How can I accelerate design and optimize production processes?			
9:30	Intel	Andrea Luiselli	Intel strategy and innovation to support HPC and AI at scale
10:00	Chiesi	Roberto Gaspari	Computer simulations for product and process design in pharmaceutical R&D
10:30	ANSYS	Fabio Bonsanto	High Performance Computing: simulate larger designs with more parameters in far less time.
11:00			
11:30	Dompè	Andrea Beccari	Exscalate EU!: EXaSCale smArt pLatform Against paThogEns
12:00	M3E	Carlo Janna	HPC linear solvers for challenging real world problems
12:30	eXactlab	Giuseppe Piero Brandino	Enabling HPC/Cloud Services from the Research Environment to the Industrial Context
13:00			
13:30			
Digital twins: How do I create my company's digital twin?			
14:00	ESI	Valerio Galli	Hybrid Twins: adapting to multi-uncertain evolving environments
14:30	ANSYS	Fabio Bonsanto	The promise of Digital Twins: how simulation-based digital twins improve product and process performance.
15:00	RBF morph	Prof. Marco Evangelos Biancolini	RBF mesh morphing and reduced order models (ROM) squeeze high fidelity CAE simulations into real time digital twins
15:30			
16:00	UNIBO	Andrea Borghesi	A self-monitoring supercomputer: coupling fine-grained monitoring, Big Data, and AI to obtain a digital twin for a HPC system
16:30	Saipem-M3E	Enrico Girello and Nicolò Spiezia	Towards a Riser Digital Twin
17:00	OPTIMAD	Haysam Telib	How to combine data and modellization in the design phase? An overview on different DigitalTwins approaches.
17:30	EnginSoft	Giulio Cenci	Digital Twin, the new dimension of numeric simulation: Methodologies, Opportunities and Experiences by EnginSoft
18:00			

23 May	Company	Speaker	Title
HPC 4 SME: Can HPC help my SME grow?			
9:30	CINECA	Claudio Arlandini and Debora Testi	HPC resources: opportunities to access them
10:00	RED Fluid Dynamics	Riccardo Rossi and Enrico Bezzi	HPC for Industry 4.0: the case of the ARES Design Panther ProgettoUno
10:30	MADE	Prof. Sergio Terzi	MADE: Competence Center
11:00			
11:30	Moxoff	Matteo Longoni	Making the most of mathematics for innovation
12:00	LINCON	Lucia Ramundo	Maritime 4.0: opportunities from digital technologies adoption
12:30	Nokia	Chiara Rampini	Data scientist profiling at a glance
13:00			
13:30			
14:00	E4	Fabrizio Magugliani	Why HPC is key for the competitiveness of the industry
14:30	EPCC	Gavin Pringle	Fortissimo Marketplace: Industry4.0 experiments in HPC
15:00	UNIBS	Prof. Alberto Salvadori	HPC simulations of batteries
15:30			
16:00	BI-REX	Stefano Cattorini	BI-REX (Big Data Innovation & Research Excellence)
16:30	HPC-EU3	Federico Perini	Leveraging HPC technology for faster simulations of engine combustion
17:00	MaX - CNR	Prof.ssa Elisa Molinari	MaX: screening and designing materials with HPC
17:30			