WORKSHOP PROGRAMME

Data-Driven Healthcare Innovation

Leveraging HPC, Cloud and D³4 Health Models for Research

DATE	VENUE	TIME
27 October 2026	Bologna · DAMA Technopole	10:30 – 16:00

INTRODUCTION

Organized by **CINECA** in collaboration with the **Fondazione D³4Health**, this workshop aims to highlight the scientific and technological achievements of the D³4 Health Initiative, with a particular focus on digital twins and artificial intelligence models for biomedical and healthcare research. The event will also provide an opportunity to explore how High-Performance Computing (HPC), cloud technologies and advanced digital infrastructures can accelerate scientific discovery, support data-driven healthcare innovation and enable the development of next-generation research tools.

Particular attention will be devoted to the digital platforms developed within the D³4 Health initiative to facilitate the sharing, deployment and reuse of AI models by the scientific community. During the afternoon session, invited speakers from academia, healthcare institutions and industry will present state-of-the-art AI models and research applications currently available through the D³4 Health Lab ecosystem.



Programme

Bologna, DAMA Technopole — 27 October 2026

10:30 – 11:00	*Registration and Welcome Coffee*

SESSION 1 · MORNING

HPC and Cloud Infrastructure supporting Research

11:00 – 11:15	**Welcome and Introduction** **Elisa Rossi** CINECA · **Lorena Nappa** FONDAZIONE D³4 HEALTH
11:15 – 11:30	**Technopole: Past, Present and Future** **Daniele Cesarini** CINECA
11:30 – 12:10	**HPC and Cloud Paradigms: Supporting Healthcare Research** **Giuseppa Muscianisi, Balasubramanian Chandramouli, Silvia Gioiosa** CINECA
12:10 – 13:00	**S-RACE and D34H Lab** **Alberto Traverso** UNISR · **Riccardo Giuseppe Margiotta** CINECA
13:00 – 13:40	*Lunch Break*

SESSION 2 · AFTERNOON

AI Models Shared Through the D³4Health Lab

Chairs Alberto Traverso · Riccardo Giuseppe Margiotta

13:40 – 14:00	**Michele Ferrara** IRCCS OSPEDALE SAN RAFFAELE
14:00 – 14:20	**Vitoantonio Bevilacqua** POLITECNICO DI BARI
14:20 – 14:40	**Shahryar Noei** FONDAZIONE BRUNO KESSLER
14:40 – 15:00	**Diana Ferro** OSPEDALE PEDIATRICO BAMBINO GESÙ
15:00 – 15:20	**Enza Cece** ISTITUTO SUPERIORE DI SANITÀ
15:20 – 15:40	**Lorenzo Manganaro** AIZOON
15:40 – 16:00	**Concluding Remarks** **Elisa Rossi** CINECA

Speakers and Chairs

Vitoantonio Bevilacqua
Department of Electrical and Information Engineering (DEI), Politecnico di Bari

Enza Cece
Centro Nazionale Intelligenza Artificiale e Tecnologie Innovative per la Salute (IATIS), Istituto Superiore di Sanità

Daniele Cesarini
HPC Department, CINECA

Balasubramanian Chandramouli
HPC Supercomputing Department, CINECA

Michele Ferrara
Department of Medical Oncology, IRCCS Ospedale San Raffaele

Diana Ferro
Predictive & Preventive Medicine Research Unit, Ospedale Pediatrico Bambino Gesù

Silvia Gioiosa
HPC Supercomputing Department, CINECA

Lorenzo Manganaro
Artificial Intelligence & Data Science Division, Aizoon

Riccardo Giuseppe Margiotta
HPC Supercomputing Department, CINECA

Giuseppa Muscianisi
HPC Supercomputing Department, CINECA

Lorena Nappa
Fondazione D³4 Health

Shahryar Noei
Data Science for Health (DSH) Unit, Fondazione Bruno Kessler

Elisa Rossi
HPC Supercomputing Department, CINECA

Alberto Traverso
San Raffaele AI Center, Università Vita-Salute San Raffaele

Venue & How to Reach Us

General information on the location

DAMA TECHNOPOLE

Via Stalingrado, 84/3 · 40128 Bologna (BO)

Open in Google Maps · damatecnopolo.it

BY PUBLIC TRANSPORT

From **Bologna Central Station**, take **Bus Line 25** and get off at the **Casoni** stop. Walk along via Casoni until you reach the intersection with via Stalingrado, then turn left onto via Stalingrado.

Route on Google Maps

BY CAR

From the Northern Ring Road (Tangenziale Nord)
Take Exit 7/7bis towards Bologna/Via Stalingrado.

From the Highway (Autostrada)

- **Coming from the North:** on the A13, take the Arcoveggio exit towards Bologna/Arcoveggio/Tangenziale/Bologna Centro/Aeroporto Bologna/FICO Eataly World. Then take the Tangenziale ramp towards Ancona/Fiera-CAAB-FICO Eataly World/S. Lazzaro di Savena.
- **Coming from the East:** on the E45, take the Bologna – S. Lazzaro exit toward Tangenziale/Bologna Center/Bologna Airport. Take the Northern Ring Road (Tangenziale Nord) and exit at 7 bis, toward Bologna/Via Stalingrado.
- **Coming from the West:** on the E45, take the Bologna – B. Panigale exit toward Bologna/Borgo Panigale/Tangenziale/Bologna Center/Bologna Airport. Take the ramp for Tangenziale/Airport and enter Tangenziale Nord. Continue on Exit 3–13 (directions for Padua/Ancona/Bologna Fair Airport/S. Lazzaro di Savena) and exit at 7 bis, toward Bologna/Via Stalingrado.

PARKING

Free parking A free parking lot with 90 spaces is available. Additional parking is available in the commercial area in front of the building and on the adjacent streets.

Paid parking Parcheggio Multipiano Calzoni, via Alfredo Calzoni 12 (900 m from the DAMA headquarters).