The Institute for High-Performance Computing and Networking of the National Research Council (CNR-ICAR) has the mission of developing research, achieving technology transfer, and promoting advanced training in the areas of complex intelligent systems and high-performance computing, with a particular focus on advanced research topics such as Artificial Intelligence and Quantum Computina.

CNR-ICAR is organized across three locations (Rende, Naples, Palermo) and divides its scientific activities into three thematic areas:

- 1. Artificial intelligence and Data science
- 2. Cyber-physical systems and robotics
- 3. High performance and quantum computing

which include 14 Research Groups.

The institute develops significant applications in various sectors, such as eHealth, Bioinformatics, Precision Medicine, Energy, Cybersecurity, IoT, Smart Cities, and Cultural Heritage.

The institute participates in and coordinates several projects funded by the European Union and is involved in numerous initiatives under the National Research Council (PNNR). Furthermore, it is actively involved in project activities in collaboration with industries and public administrations.

CNR-ICAR currently employs about 105 permanent staff members and about 25 temporary staff members.

www.icar.cnr.it





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LLOYD'S BAIA HOTEL Vietri sul Mare (Salerno)



VIETRI SUL MARE (SA) | ITALY **1-3 DECEMBER 2025**



Consiglio Nazionale delle Ricerche



Istituto di Calcolo e Reti ad Alte Prestazioni





DECEMBER 1

Day 1: Cooperation with PNRR initiatives and other networks

15:00 - 15:30 Welcome and Presentation of the Institute

Fabio Martinelli, Director of ICAR-CNR

15:30 - 16.30

Present and future of extended partnerships:

- Fabio Beltram, SNS President of the CTS of NQSTI (National Quantum Science and Technology Institute)
- Nicola Blefari Melazzi, Univ. Tor Vergata President of RESTART
- Giuseppe De Pietro, Univ. Pegaso President of FAIR (Future Artificial Intelligence Research)
- Vincenzo Loia, Univ. Salerno President of SERICS (Security and Rights in Cyberspace)

16:30 - 17:00 Coffee Break & Poster Session

17:00 - 18:00 Computing infrastructures for research in social sciences, medicine, etc.

- FOSSR (Fostering of Open Science in Social Science Research)
 Giovanni Cerulli IRCRES CNR
- SoBigData Roberto Trasarti ISTI CNR
- H2IOSC Emiliano degl'Innocenti CNR
- BBMRI and EOSC Prof. Marialuisa Lavitrano UNIMIB

20:00 Dinner @ Lloyd's Baia Hotel

DECEMBER 2

Day 2: ERCIM event on Quantum Computing

09:30 - 10:00 Welcome and Introduction

- Emilio Fortunato Campana, Director of DIITET department at CNR
- Han Le Poutré, CWI Elected-President of ERCIM
- Presentation of the ERCIM Working Group on Quantum Technologies (QT) -Francisco Chicano and Carlo Mastrojanni

10:00 - 13:00 Research trends in Academia and RTOs

- Francesco Saverio Cataliotti National Quantum Science and Technology Institute (NQSTI)
- Francisco Chicano University of Malaga
- George Stamatiou FORTH/University of Crete

Coffee Break & Poster Session (20 minutes)

- Mohammad Reza Mousavi (King's College London)
- Carlo Mastroianni CNR
- Asle Sudbø NTNU (remote)
- Sebastian Raubitzek SBA
- Miroslav Dobsicek RISE

13:00 - 14:00 Lunch Break

14:00 - 14:15

 Oscar Diez (Deputy Head of Unit, DGCONNECT C2) (remote)

14:15 - 16:00 Research and innovation trends from Industry

- Mayowa Ayodele (D-WAVE)
- Salvatore Cuomo (Quantum2PI)
- Daniele Dragoni (Leonardo)
- Max Haeberlein (IQM)
- Almudena Justo Martinez (Fujitsu)
- Alfredo Troiano (QuantumNet)
- Alessandro Zavatta (QTI)

16:00 - 16:15 Coffee Break & Poster Session

16:15 - 17:15

Wrap-up Closing Session: Future Trends in Quantum Computing

17:30 - 20:00 Visit to Luci d'Artista in Salerno

20:00 Dinner @ Luname Restaurant

DECEMBER 3

Day 3: The Institute

09:30 - 11:00
Presentation of the ICAR Research Groups

11:00 - 11:30 ICAR Award for Young Researchers

Giuseppe Manco coordinates the evaluation committee

11:30 - 11:50 Coffee Break

11:50 - 13:00
Discussion on current and future activities
(including PNRR and Post PNRR)

13:00 Closing of the Workshop