

# EuroHPC Summit Week 2022 including PRACEdays22 is coming up!

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The 2022 edition of the [EuroHPC Summit Week](#) will take place from 22 to 24 March in Paris, France, and will include PRACE's Scientific and Industrial Conference [PRACEdays22](#). After last year's edition had to be held digitally due to the COVID-19 pandemic, we are excited that we can, once more, provide the supercomputing community — from young researchers to high-level experts — with the opportunity to come together, discuss and share ideas in person.

The **EuroHPC Summit Week (EHPCSW) 2022** will gather the main European HPC stakeholders — from technology suppliers and HPC infrastructures to scientific and industrial HPC users. As in previous years, [PRACE](#), the Partnership for Advanced Computing in Europe, co-locates its **Scientific and Industrial Conference (PRACEdays22)** at the EHPCSW 2022. PRACEdays22 will bring together experts from academia and industry who will present their advancements in HPC-supported science and engineering, as well as political stakeholders. EHPCSW 2022 will provide a great opportunity for the attendees to **learn about the latest developments, to share ideas and network**.

**PRACEdays22** will include plenary and parallel sessions featuring high-level international speakers, as well as a variety of workshops covering application areas where high-performance computing is crucial for scientific advancement.

The full program and timetable can be found on the [event webpage](#). Some of the **highlights** include:

- **Scientific keynote speeches** by **Dr Sylvie Joussaume**, Research Director at the Centre National de la Recherche Scientifique (CNRS) on challenges in modelling climate change, **Prof. George Em Karniadakis**, Professor of Applied Mathematics at Brown University on data-driven computing and **Prof. Elham Kashefi**, Professor of Computer Science at the University of Edinburgh on quantum computing.
- **Several scientific parallel tracks** covering **climate change, data-driven computing, quantum computing**, and **other domains including COVID-19**. The presentations within these sessions will address a variety of topics, such as **open climate data** for climate-proofing natural resources management, **deploying scalable deep learning on HPC**, simulating large **quantum circuits** with cloud computing, or **using HPC to accelerate drug design**.
- Presentations and a discussion on EUMaster4HPC, the **first pan-European Master programme in HPC**.
- A workshop on the **European HPC Ecosystem** with the objective to present and discuss the current European HPC landscape and the efforts undertaken to further deploy and consolidate the position of Europe in the global HPC environment.
- A keynote speech on quantum computing by **Prof. Dr Kristel Michielsen**, a professor at the Jülich Supercomputing Centre (JSC) and the coordinator of [HPCQS](#), which stands for High-Performance Computer and Quantum Simulator hybrid. The project aims to develop and coordinate a European infrastructure to tightly integrate two quantum simulators that each control 100+ qubits in a HPC system.



- The award ceremony of the [2022 PRACE Ada Lovelace Award](#) and a keynote by the winner, **Dr Marija Vranic** from the Instituto Superior Técnico of the University of Lisbon. With this award, PRACE honours Marija Vranic's achievements in pioneering techniques for representing quantum effects in extreme plasmas, and her activities in improving the visibility of women in physics and HPC — for instance, by reducing the gender imbalance of invited speakers at scientific conferences.
- **Industrial parallel tracks** featuring presentations and workshops on **HPC & energy transition**, industry perspectives on **HPC education**, or **quantum computing use cases** from industry.
- A **Panel Discussion** on “Emerging applications, model and implementation”, which will **discuss recent advances** in fields such as quantum algorithms and data-driven computing. The panel will focus on these emerging advances from several perspectives. **Which problems are now becoming tractable to tackle, and which recent technologies have really brought a step-change in HPC?** Participants include, among others, Dr Marie-Alice Foujols (IPSL), Prof. Dr Kristel Michielsenn (JSC) and Dr Marija Vranic (Ada Lovelace Award 2022 winner).
- A **Poster Session** including **Poster Lightning Talks** presenting recent scientific advancements and methodological innovations.

The main organisers of the EHPCSW 2022 are the **Partnership for Advanced Computing in Europe (PRACE)**, and the **European Technology Platform for High-Performance Computing (ETP4HPC)**. The [EuroHPC Joint Undertaking](#) (EuroHPC JU) and the European Commission (EC) are also involved in the organisation of the conference. The logistical organisation is supported by a local host: for the 2022 edition, this is [GENCI](#) (Grand équipement national de calcul intensif).

Further information is available on the [event webpage](#). Registration for the EuroHPC Summit Week and PRACEdays22 is open [here](#). Registration will close on 13 March. Don't miss out!

## About PRACE

The Partnership for Advanced Computing in Europe (PRACE) is an international non-profit association with its seat in Brussels. The PRACE Research Infrastructure provides a persistent world-class High-Performance Computing service for scientists and researchers from academia and industry in Europe. The computer systems and their operations accessible through PRACE are provided by five PRACE members (BSC representing Spain, CINECA representing Italy, ETH Zurich/CSCS representing Switzerland, GCS representing Germany and GENCI representing France). The Implementation Phase of PRACE receives funding from the EU's Horizon 2020 Research and Innovation Programme (2014-2020) under grant agreement 823767. For more information, see [www.prace-ri.eu](http://www.prace-ri.eu)

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