PRACE Workshop: Deep Learning and GPU Programming Workshop

10 – 13 May 2022

PRACE Survey

- Pease fill out the PRACE online survey under

https://tinyurl.com/survey-dli-csc

- This helps us and PRACE to
  - increase the quality of the courses,
  - design the future training programme at CSC, IT4Innovations, LRZ and in Europe according to your needs and wishes,
  - get future funding for training events.

CSC Certificate

- A digital certificate for the whole workshop will be send to you by CSC next week if you have attended at least 3 days of the course.

What‘s next?

- Visit the NVIDIA Deep Learning Institute's website at https://www.nvidia.com/en-gb/training/ to access more training and resources.
  - Start online, self-paced training in deep learning and accelerated computing (using the account you created today).
  - View upcoming workshops around the world and request an onsite workshop at your company or organization
  - Learn about the University Ambassador Program.
- Ready to kick off a deep learning project or already working on one? Choose the best software and hardware solutions at https://developer.nvidia.com/deep-learning

NVIDIA DLI Workshops @ LRZ

- The **NVIDIA Deep Learning Institute (DLI) @ LRZ** offers hands-on training for developers, data scientists, and researchers looking to solve challenging problems with deep learning.
- Topics:
  - **Fundamentals of Deep Learning**
  - **Building Transformer-Based Natural Language Processing Applications**
  - **Fundamentals of Deep Learning for Multi-GPUs**
  - **Fundamentals of Accelerated Computing with CUDA C/C++**
  - **Accelerating CUDA C++ Applications with Multiple GPUs**
  - **Scaling CUDA C++ Applications to Multiple Nodes**
  - **Fundamentals of Accelerated Computing with OpenACC**
- NVIDIA Certified **University Ambassadors @ LRZ:**
  - Dr. Momme Allalen, Dr. Juan Durillo Barrionuevo, Dr. Volker Weinberg
- NVIDIA Certified **University Ambassador @ IT4Innovations**: Georg Zitzlsberger

PRACE Training

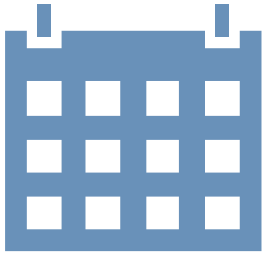
LRZ as part of the Gauss Centre for Supercomputing (GCS), CSC and IT4Innovations belong to the 14 **PRACE Training Centres** that started in 2012-2017-2020:

- Barcelona Supercomputing Center (Spain)
- CINECA Consorzio Interuniversitario (Italy)
- CSC – IT Center for Science Ltd (Finland)
- EPCC at the University of Edinburgh (UK)
- Gauss Centre for Supercomputing (Germany)
- Maison de la Simulation (France)
- GRNET – Greek Research and Technology Network (Greece)
- ICHEC – Irish Centre for High-End Computing (Ireland)
- IT4I – National Supercomputing Center VSB Technical University of Ostrava (Czech Republic)
- SURFsara (The Netherlands)
- TU Wien – VSC Research Center (Austria)
- University ANTWERPEN – VSC & CÉCI (Belgium)
- University of Ljubljana – HPC Center Slovenia (Slovenia)
- Swedish National Infrastructure for Computing (SNIC) (Sweden)

Mission: Serve as **European hubs and key drivers of advanced high-quality training** for researchers working in the computational sciences.

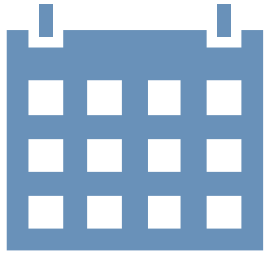
http://www.training.prace-ri.eu/

Upcoming Courses and Workshops @ LRZ



Introduction to LRZ HPC Systems with Focus on CFD Workflows	14.06.2022 – 14.06.2022	ONLINE	0.00 €	63	✓	Register now
Hybrid Programming in HPC - MPI+X (register via PRACE)	22.06.2022 – 24.06.2022	ONLINE	0.00 €	65	⊘	
HPC Code Optimisation Workshop (register via PRACE)	27.06.2022 – 29.06.2022	ONLINE	0.00 €	65	⊘	
Deep Learning and GPU programming using OpenACC @ HLRS (register via HLRS)	12.07.2022 – 14.07.2022	Universität Stuttgart - Höchstleistungsrechenzentrum Stuttgart	0.00 €	65	⊘	
Deep Learning Week	25.07.2022 – 29.07.2022	ONLINE	0.00 €	4	✓	Register now
Introduction to LRZ HPC Systems with Focus on CFD Workflows	10.08.2022 – 10.08.2022	ONLINE	0.00 €	65	✓	Register now
Introduction to LRZ HPC Systems with Focus on CFD Workflows	12.10.2022 – 12.10.2022	ONLINE	0.00 €	65	✓	Register now
Introduction to ANSYS Fluent	27.10.2022 – 08.12.2022	ONLINE	0.00 €	49	✓	Register now
Introduction to LRZ HPC Systems with Focus on CFD Workflows	14.12.2022 – 14.12.2022	ONLINE	0.00 €	65	✓	Register now

Upcoming Courses and Workshops



- **Information on further HPC courses and events:**
  - by the Partnership for Advanced Computing in Europe (PRACE): http://www.training.prace-ri.eu/
  - by CSC: https://www.csc.fi/en/training
  - by IT4Innovations: https://www.it4i.cz/en/education/training-activities / https://events.it4i.cz/
  - by LRZ: http://www.lrz.de/services/compute/courses/
  - by the Gauss Centre of Supercomputing (GCS): http://www.gauss-centre.eu/training
  - by German Centres (collected by the Gauß-Allianz): https://hpc-calendar.gauss-allianz.de/
  - by the EuroCC national competence centres: https://www.eurocc-access.eu/services/training/

Mailing Lists

- Subscribe via https://www.csc.fi/en/newsletter and you will receive news from CSC, including updates on new services and information on upcoming courses.
- To receive the latest information on upcoming training events at IT4Innovations, send an e-mail to training@it4i.cz.
- Subscribe via https://lists.lrz.de/mailman/listinfo/newsletter to get regular information on events, courses, workshops, positions etc. at LRZ.
- Subscribe via https://prace-ri.eu/subscribe-to-prace-mailing-lists/ to the PRACE training mailing list, to get regular information on PRACE training.

Thank you!

We hope to see you again in a future training event!