

The background of the slide is a photograph of a modern, multi-story building with a glass and metal facade, partially obscured by a blue overlay. The building has a prominent vertical glass section on the right side. In the foreground, there are trees and a street with a few people walking.

# Iterative Solvers for Linear Systems

ONLINE | 5. – 7.9.2023

# Survey

- Please fill out the online survey under



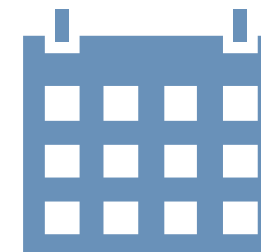
<https://tinyurl.com/survey-hits1s23>



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



# Upcoming Courses and Workshops



<a href="#">OpenMP Programming Workshop</a>	27.09.2023 – 29.09.2023	ONLINE	30.00 EUR – 600.00 EUR	60	<a href="#">Register now</a>
<a href="#">Data Parallelism - How to Train Deep Learning Models on Multiple GPUs</a>	05.10.2023 – 05.10.2023	Leibniz Rechenzentrum	0.00 EUR	0	
<a href="#">Data Parallelism - How to Train Deep Learning Models on Multiple GPUs</a>	17.10.2023 – 17.10.2023	Leibniz Rechenzentrum	0.00 EUR	6	<a href="#">Register now</a>
<a href="#">Introduction to LRZ HPC Systems with Focus on CFD Workflows</a>	18.10.2023 – 18.10.2023	ONLINE	0.00 EUR	53	<a href="#">Register now</a>
<a href="#">AI Training Series - Intro to Container Technology &amp; Application to AI at LRZ</a>	23.10.2023 – 23.10.2023	HYBRID: ONLINE/LRZ	0.00 EUR	100	
<a href="#">Quantum Machine Learning with PennyLane</a>	25.10.2023 – 25.10.2023	Leibniz Rechenzentrum	0.00 EUR	8	<a href="#">Register now</a>
<a href="#">Modern C++ Software Design</a>	25.10.2023 – 27.10.2023	ONLINE	30.00 EUR – 600.00 EUR	40	<a href="#">Register now</a>
<a href="#">Introduction to ANSYS Fluent on LRZ HPC Systems</a>	02.11.2023 – 14.12.2023	ONLINE	0.00 EUR	62	<a href="#">Register now</a>
<a href="#">Deep Learning and GPU Programming Workshop</a>	06.11.2023 – 08.11.2023	ONLINE	0.00 EUR	41	<a href="#">Register now</a>
<a href="#">AI Training Series - Introduction to the LRZ AI Systems</a>	07.11.2023 – 07.11.2023	HYBRID: ONLINE/LRZ	0.00 EUR	100	
<a href="#">AI Training Series - Introduction to the LRZ Linux Cluster</a>	16.11.2023 – 16.11.2023	HYBRID: ONLINE/LRZ	0.00 EUR	100	
<a href="#">AI Training Series - The LRZ Compute Cloud for AI Support</a>	21.11.2023 – 21.11.2023	HYBRID: ONLINE/LRZ	0.00 EUR	100	
<a href="#">Advanced Fortran Topics</a>	28.11.2023 – 01.12.2023	ONLINE	30.00 EUR – 600.00 EUR	64	<a href="#">Register now</a>
<a href="#">Node-Level Performance Engineering</a>	04.12.2023 – 06.12.2023	ONLINE	30.00 EUR – 600.00 EUR	60	<a href="#">Register now</a>
<a href="#">AI Training Series - High Performance Data Analytics Using R at LRZ</a>	13.12.2023 – 13.12.2023	HYBRID: ONLINE/LRZ	0.00 EUR	100	
<a href="#">Introduction to LRZ HPC Systems with Focus on CFD Workflows</a>	13.12.2023 – 13.12.2023	ONLINE	0.00 EUR	60	<a href="#">Register now</a>

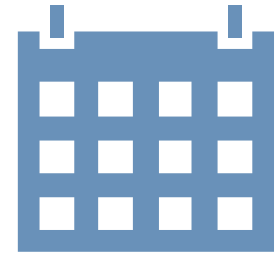
# NVIDIA DLI Workshops @ LRZ



- 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
  - Data Parallelism - How to Train Deep Learning Models on Multiple GPUs
  - Building Transformer-Based Natural Language Processing Applications
  
  - 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



# Upcoming Courses and Workshops



- **Information on further HPC courses:**

- by LRZ: <http://www.lrz.de/services/compute/courses/>
- by the Gauss Centre of Supercomputing (GCS): <https://www.gauss-centre.eu/trainingsworkshops>
- 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/>
- by European Centres: <https://hpc-portal.eu/upcoming-events-courses>



- Subscribe to our LRZ newsletter via <https://www.lrz.de/wir/newsletter/> to get regular information on events, courses, workshops, positions etc. at LRZ.

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