



## Fundamentals of Deep Learning for Multi-GPUs (PRACE Training Course)

December 11, 2020

VSB - Technical University of Ostrava
ONLINE

## **Lecturers**: **Georg Zitzslberger** | IT4Innovations

The computational requirements of deep neural networks used to enable AI applications like self-driving cars are enormous. A single training cycle can take weeks on a single GPU or even years for larger datasets like those used in self-driving car research. Using multiple GPUs for deep learning can significantly shorten the time required to train lots of data, making solving complex problems with deep learning feasible. We will teach you how to use multiple GPUs to train neural networks.

## **AGENDA**

09:45 – 10:00	Presentation
10:00 – 10:15	Welcome and introduction
10:15 – 12:00	Stochastic Gradient Descent
12:00 - 13:00	Lunch Break
13:00 – 14:20	Introduction to Distributed Training
14:20 - 14:30	Coffee break and Group Picture
14:30 – 15:45	Algorithmic Challenges of Distributed SGI
15:45 - 16:00	08.4

More informations & registration: events.it4i.cz/event/110







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