Universität Bremen · BOSCH · Universität Heidelberg Zukunft seit 1386 · KoMSO · SPONSORED BY THE Federal Ministry of Education and Research

2023 - KoMSO ACADEMY

TorchPhysics: Deep Learning for partial differential equations

November 7 & 8, 2023

Heidelberger Akademie der Wissenschaften
https://www.komso.org/

Universität Bremen · BOSCH · Universität Heidelberg Zukunft seit 1386 · KoMSO · Sponsored by the Federal Ministry of Education and Research

2023 - KoMSO ACADEMY

TorchPhysics: Deep Learning for partial differential equations

TorchPhysics has been jointly developed by Bosch and the University of Bremen. It aims at providing an 'as simple as possible' platform for testing AI concepts for solving PDEs.
This workshop aims at providing an overview of the state of the art AI concepts for solving PDEs and related parametric studies/parameter identification problems.

We include an introduction in using TorchPhysics as well as hands on exercises using this toolbox.
Furthermore we highlight recent advances in modeling injection molding processes in industrial applications via deep learning based surrogate models.

Keynote speakers:
Prof. Dr. Uwe Iben, Robert Bosch GmbH
Prof. Dr. Dr. h.c. Peter Maaß, ZeTeM, University of Bremen
Manuel Wenzel, Robert Bosch GmbH
TorchPhysics Team University of Bremen (Janek Gödeke, Nick Heilenkötter, Tom Freudenberg)

The workshop will take place from Nov 7th, 9am to Nov 8th, 4:30pm
Online participation is possible for a limited number of participants.

Registration:
Registration fee for industry: 600 € (online 350 €)
Registration fee for academia: 250 € (online 150 €)
(Registration fee on site incl. conference dinner, 07.11.)

For registration please send an e-mail to the organization comittee:
komso-academy@math.uni-bremen.de