

ML@GFZ

May 4th, 2021 — Virtual meeting via BigBlueButton

<https://meet.gwdg.de/b/max-4mr-6wc>

10:00 - 10:10 Welcome by Frederik Tilmann

10:10 - 10:20 Helmholtz Metadata Consortium (HMC)

10:10: FAIRWISH - Workflows to establish International Geo Sample Number (IGSN) for Samples in the Helmholtz Association (Kirsten Elger)

10:15: eFAIRs - Enhancing FAIRness in seismological data management; metadata for ocean bottom instrumentation (Angelo Strollo)

10:20 - 10:30 Helmholtz Imaging Platform (HIP)

10:20: MULTISAT4SLOWS - Developing multi-scale satellite-based imaging platform for change detection: application for landslide hazard classification and early warning service (Mahdi Motagh)

10:25: SIM - Solar image-based modelling (Yuri Shprits)

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10:30 - 10:55 Helmholtz-AI

10:30: T⁶: Reactive Transport experiment Digital Twin: Pipeline for AI-assisted real-time evaluation and control of reactive transport experiments (Marco de Lucia)

10:35: AI4GNSSR Artificial Intelligence for GNSS Reflectometry: Novel Remote Sensing of Ocean and Atmosphere (Milad Asgarimehr)

10:40: PCDL-QuaSPA - Physics-Constrained Deep Learning Framework for Quantifying Surface Processes across the Arctic Region (Erik Chan)

10:45: AIRNet AI Recurrence Networks for investigations on cloud-circulation patterns (Mike Sips)

10:55 - 11:05 Helmholtz-AI (January 2020 call)

10:55: REPORT-DL - Rapid Earthquake Phase analysis of Ocean-bottom, Regional and Teleseismic events with Deep Learning (Jannes Münchmeyer)

11:00: AI44flood - Artificial intelligence for flood mapping (Mahdi Motagh)

11:05 - 11:30 Inkubator pilots

11:05: MAP MACHine learning based Plasma density model (Artem Smirnov)

11:10: TecVolcSA - Tectonics and Volcanism in South America. Application of AI methods to remote sensing data and geophysical time series from SA (tbc)

11:15: UQ Uncertainty Quantification (Kuan Yu Ke)

11:20 - 11:30 Wrap-Up

NB: Name of presenters shown, not necessarily PIs