



MAELSTROM Dissemination workshop

Programme

Tuesday Agenda

The time displays according to the selected time zone.

The selected timezone is Europe/London

| | MAELSTROM | |
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| 09:00 to 09:30 | An introduction to MAELSTROM Presentation slides | Peter Düben (ECMWF) |
| 09:30 to 10:00 | Performance models for machine learning Presentation slides | Karthick Panner Selvam (University of Luxembourg) |
| 10:00 to 10:30 | Experiences with W&C ML Apps on AMD Instinct GPUs | Stepan Nassyr (Jülich Supercomputing Center) |
| 10:30 to 11:00 | A machine learned weather forecast for Norway Presentation slides | Thomas Nipen (Norwegian Meteorological Institute) |
| 11:00 to 11:15 | Coffee break | |
| | Partner EuroHPC Projects | |
| 11:15 to 11:45 | SEA-Projects: towards a European heterogeneous system and SW architecture for Exascale and beyond | Hans-Christian Hoppe (Jülich Supercomputing Center) |
| 11:45 to 12:15 | SparCity for Sparse Tensors: Study on Feature Extraction and Smart Tensor Generation Presentation slides | Tugba Torun (Koç University) |
| 12:15 to 12:45 | Some recent improvements of parallel-in-time algorithm Presentation slides | Daniel Ruprecht (Hamburg University of Technology) |
| 12:45 to 14:00 | Lunch break | |
| | Invited external speakers | |

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| 14:00 to 14:30 | Radiative transfer emulation: results so far and why we should move on to 3D Presentation slides | Peter Ukkonen (DMI) |
| 14:30 to 15:00 | Deep Learning for regional ensemble forecasting : first results Presentation slides | Laure Raynaud (Météo-France) |
| 15:00 to 15:30 | AIFS Presentation slides | Simon Lang (ECMWF) |
| 15:30 to 16:00 | Coffee break | |
| 16:00 to 16:30 | AtmoRep: Large-Scale Representation Learning of Atmospheric Dynamics Presentation slides | Christian Lessig (ECMWF) |
| 16:30 to 17:00 | Physics-Constrained Deep Learning for Downscaling and Emulation Presentation slides | Paula Harder (Fraunhofer Institute ITWM) |
| 17:00 to 17:30 | Towards km-scale AI emulation for weather and climate applications Presentation slides | Karthik Kashinath (NVIDIA) |
| | Drinks reception | |
| 18:00 to 19:30 | Drinks reception in the Weather Room | |