Speakers

Pr. Patrick Gallinari

SCAI/ ISIR
Sorbonne Université

From basic learning techniques to the various theories of information representation in field physics

Ass. Pr. Jean-Christophe Loiseau

DynFluid Lab
Arts & Métiers Paris Tech

System identification / operator learning

Pr. George E. Karniadakis

Assoc. Pr. Khemraj Shukla

Brown University

Physics-Informed Neural Networks (PINN) & PIKAN & Neural Operators

Pr. Patrick Gallinari

SCAI/ ISIR
Sorbonne Université

Generalization in physics-based deep learning

Pr. Claire Boyer

Université Paris
Saclay

A primer on physics-informed machine learning: from PINNs to kernel methods

Dr. Christophe Millet
CEA & ENS Paris Saclay

Elodie Noëlé
DGA & CEA

From Graph Neural Networks to learning dynamic graphs

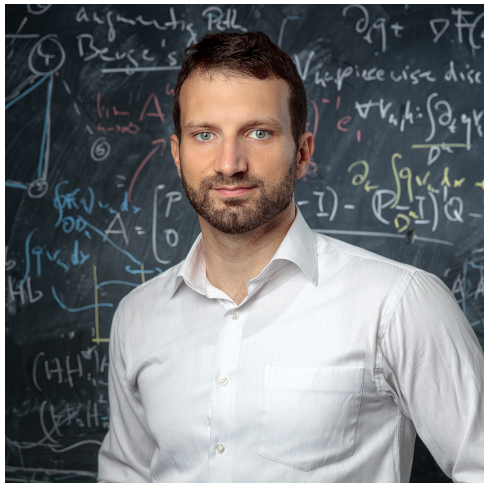
Pr. Ronan Fablet

IMT Atlantique

End-to-end neural data assimilation: application to ocean dynamics

Dr. Boris Bonev

Nvidia



A principled approach to probabilistic machine-learning weather forecast at scale

Pr. Bruno Raffin
INRIA

Dr. Alejandro Ribes
EDF

On-line training of Deep Surrogates models

Dr. Alena Shilova
INRIA

SciML perspective on solving control problems

Abbas Kabalan
Raphaël Carpintero Perez

Safran Tech

Some industrialized approaches in physics-based machine learning

Pr. Siddartha Mishra

ETH Zurich

Foundation models for PDE