Special Session: C-C-OPTI-S4

Physics-Informed Neural Networks (PINNs)

Organisers:

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Summary:

With the development of Physics-Informed Machine Learning models, Artificial Intelligence for Physical processes seems to be a very promising topic, with a broad range of applications in every aspect of numerical simulations. This workshop gathers works related to Machine Learning surrogate models for physical processes, including, but not limited to, Physics-Informed Neural Networks and Graph-Based modeling. The coupling between these kinds of approaches and traditional numerical solvers is also included in this session.
Papers on all aspects of the surrogate modeling of physical phenomena are welcome, from theoretical considerations to the application on industrial problems.

Papers on all aspects to PINNs from theory to applications are invited.