

Deep learning of superstructures in turbulence

Thursday, July 30, 2020 1:00 PM (1 hour)

We aim to utilize machine learning methods to learn superstructures in turbulent flow to obtain a data-driven reduced model for turbulent convection. The underlying data will stem from both numerical simulations and experiments and will be used as training data for various machine learning architectures in order to predict the behavior of the underlying system and to extract hidden structures of the turbulent flow.

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