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Topological diagnostics of ML and AI algorithms

Tuesday 15 October 2024 12:30 (35 minutes)

It is now standard practice across science to use models that have been trained, fit, or learned based on a set of data. Many of these models involve a large number of parameters that make direct interpretation of the model challenging and a near black-box model view appropriate. We explore the possibilities of using ideas based on topological analysis methods to understand and evaluate these AI and ML-based functions. These show a surprising ability to generate easy to understand insights into these black-boxes.

Focus areas

Presenter: GLEICH, David (Purdue)

Session Classification: Invited talks