

Scientific machine learning: An overview with applications to inverse problems

Monday 23 September 2024 10:30 (1 hour)

Scientific Machine Learning is an emerging research area within statistical learning that focuses on the opportunities and challenges of machine learning in the context of complex applications across science, engineering, and medicine. Challenges in these fields have attributes that make them very different in nature to computer science applications where data-driven machine learning has found success. The talk will try to provide an overview of this area from the viewpoint of solving large-scale ill-posed inverse problems.

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