

Author: Jalo Nousiainen, Department of Mathematics and Statistics, University of Helsinki.

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Title: Local neural networks and temporal control in AO

Abstract:

Real time AO-system is affected by a time delay in the Shack-Hartmann wavefront sensor data. Temporal control of AO often relies on evolution model of the atmosphere which can be difficult to specify. In this study we are trying to find out, can we use modern machine learning techniques to learn this temporal behavior from the data itself.