Contribution ID: **486**   Type: **Talk in a parallel session**

Convolutional Neural Network and Soprano: computing numerically expensive models in the blink of an eye

Friday, 12 July 2024 17:20 (20 minutes)

I will discuss the use of machine learning and more specifically of convolutional neural network (CNN) to enable fitting of blazar (or other objects) SEDs with numerically costly models. In particular, I will describe the necessary ingredients, the numerical approach and tools, the setup of the neural network and the training steps. Finally, I will discuss future plans and improvements.

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Session Classification: Machine learning in astronomy: AGN, transient events, cosmology and others

Track Classification: Artificial Intelligence Methods (AI): Machine learning in astronomy: AGN, transient events, cosmology and others