

## Detection and Dynamics of Exoplanets (DDE): Interplay between theory and observations



Contribution ID: 13

Type: **not specified**

## Searching Transiting Exoplanets through Machine Learning Techniques

*Tuesday 8 July 2025 11:38 (1 minute)*

Due to the availability of high-performance computers and the data release from big-scale sky survey projects, the machine learning has been employed in many fields in astronomy. We have developed a numerical procedure of machine learning to search for transiting exoplanets from several survey data. Our procedure employs the convolutional neural network of deep learning techniques. In addition, another commonly-used machine learning algorithm, random forest, is also used. The details of the procedures and the results will be presented.

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**Session Classification:** Poster Session