Heterogeneous Data and Large Representation Models in Science

Contribution ID: **24**   Type: **Oral presentation**

Galaxy detection with deep learning in radio data

Wednesday 2 October 2024 11:45 (35 minutes)

Astronomical facilities generate ever-increasing data volumes, rapidly approaching the exascale. In this talk, I will introduce YOLO-CIANNA, a deep-learning object detector for astronomical images, and present results over simulated 2D continuum images and HI emission cubes from the SKAO SDCs. I will then discuss how the method could be applied to data from the SKA precursor and how we could combine heterogeneous data from other types of surveys to build an instrumental-context-aware detector.

Contribution length

Middle

Primary author: CORNU, David (Observatoire de Paris | PSL)

Presenter: CORNU, David (Observatoire de Paris | PSL)