Use of Deep Learning for low-level processing of astronomical images

Emmanuel Bertin[1,2]

[1] *Canada-France-Hawaii Telescope, Kamuela, HI 96743, USA*

[2] *Sorbonne Université, CNRS, UMR 7095, Institut d'Astrophysique de Paris, F-75014 Paris, France*

I will show how Deep Learning and Deep Learning frameworks can be leveraged to readily solve several difficult problems in astronomical image processing and analysis, and advantageously replace many key components of current and future data processing pipelines.