

Knowledge Discovery Interest Group

Raffaele D'Abrusco

CENTER FOR

ASTROPHYSICS

HARVARD & SMITHSONIAN

*“Knowledge Discovery is the task of processing and analyzing astronomical datasets with the aim of **extracting new knowledge**. This endeavor spans multiple disciplines including **visualization, data access and exploration, machine learning, statistical methods and workflow orchestration.**”*

- ⊕ **Merge, trim and refine set of existing and new priorities for the IG**

KD-IG priorities

- ⊕ **Merge, trim and refine set of existing and new priorities for the IG**
- ⊕ **Collect relevant requirements from current and future astronomical projects**

KD-IG priorities

- ⊕ **Merge, trim and refine set of existing and new priorities for the IG**
- ⊕ **Collect relevant requirements from current and future astronomical projects**
- ⊕ **Set realistic goals and establish a *modus operandi* to stimulate and inform KD-related work by IVOA WGs**

KD-IG session@2021FallInterOp

Wednesday 03 at 22:00 UTC

- ⊕ Three talks about relevant KD scientific applications and methodologies
 - ⊙ A. Mahabal: *Data Sheets and Model Cards*
 - ⊙ P. Skoda: *DSS redshift prediction based on Bayesian Deep Learning*
 - ⊙ R. Martinez-Galarza: *Harvesting outliers: data barriers to turn anomalies into discoveries*
- ⊕ Open discussion regarding KD-IG priorities

Other relevant sessions

- ⊕ CSP: Tuesday 02 at 20:30 UTC
- ⊕ GWS 1: Wednesday at 05:00 UTC
- ⊕ GWS 2: Thursday 04 at 05:00 UTC
- ⊕ App 2: Thursday 04 at 06:30 UTC
- ⊕ App 3: Thursday 04 at 15:00 UTC