

Knowledge Discovery Interest Group

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CENTER FOR

ASTROPHYSICS

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*“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.**”*

KD-IG priorities

- ⦿ **Pursue existing (and determine new) priorities for the IG**
- ⦿ **Collect KD-related scientific requirements from current and future astronomical projects**
- ⦿ **Establish a *modus operandi* to stimulate and inform KD-related work by IVOA WGs**

KD-IG session@2022 Spring InterOperability Meeting

Thursday 04/28 at 22:30 UTC

- Three talks about relevant KD scientific applications and methodologies
 - R. Martinez-Galarza: *X-ray datasets: A Machine Learning Perspective*
 - P. Skoda: *The Role of VO Technology in Astronomical Machine Learning*
 - Y. Wu: *Classification of Galaxy Spectra based on Convolutional Neural Network*

Other relevant sessions

- CSP: Tuesday (04/26) at 15:00 UTC
- App 1: Wednesday (04/27) at 13:30 UTC
- Hack-a-thon (04/26) at 13:30/15:00 UTC