

Knowledge Discovery Interest Group

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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.**”*

Goals of the KD-IG

- ① **Determine and document reciprocally beneficial synergies between KD themes and VO tools/services**
- ② **Collect KD-related scientific requirements from current and future astronomical projects**
- ③ **Establish an effective *modus operandi* to support & provide input for KD-relevant work by IVOA WGs**

KD-IG @2022 Spring InterOperability Meeting

KD-IG session: Thursday 04/28 at 22:30 UTC

- 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

Staying in touch

- E-mail: kdd@ivoa.net
- Slack: [IVOA#kdd](#)