

# IVOA IG-KDD

Where Data Mining meets the Virtual Observatory!

The Interest Group in Knowledge Discovery in Databases (IG-KDD), is a newly formed (May 2010) interest group of the International Virtual Observatory Alliance.

*Its main goal is: “testing scalable data mining algorithms and the accompanying new standards for VO interfaces and protocols, so that these algorithms can be discovered and used transparently within VO science workflows or in standalone data exploration applications.”*

# Charter

- **Support the definition of an ontology of the KDD tasks required by the astronomical community.** This ontology will be used to define programming and documentation standards.
- Make an **inventory of existing methods relevant for astrophysical applications** (more than 100 new KDD models and methods appear every month on specialized journals).
- **Identify reference data sets** to be used for comparing, debugging and testing methods and tools.
- Foster the implementation, using available VO standards and methods, of general purpose data exploration and data mining methods which will allow the general user to seamlessly exploit the complex data repositories offered by the VO.
- Provide/receive feedbacks to/from the WGs in order to improve the usability of VO tools and standards.
- Provide/receive from the community information to improve both the usability and the potentialities of Data Mining tools under the VO.
- **Define and pursue specific and innovative science cases** which will be used to showcase the VO capabilities to the community.

# The community

- Chair: G. Longo (University 'Federico II' of Naples, Italy).
- **>50 members**, with significant presence of IT and statistical science experts;
- for contacts:

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or go to the website:

<http://www.ivoa.net/cgi-bin/twiki/bin/view/IVOA/IvoaKDD>