

Produce a Panchromatic, Minimally-Biased Sample of AGN for Further Studies

Task	What is Needed
Learn the skills needed below	A good astroinformatics curriculum
Discover the suitable data sets, using VO services	VO data services
Crossmatch the catalogs with partially overlapping, different spatial coverage and angular resolution	A good crossmatching service
Compile from the literature a set of spectroscopically confirmed AGN, match to the master catalog, to use as training and validation data sets	Means of sifting through the on-line literature and data, to identify the training/validation sample
Perform a series of different clustering experiments, both supervised and unsupervised, to find an optimal selection for AGN (including validation)	Easy to use classification and clustering services
Be able to visualize the multi-dimensional color spaces in order to guide the data mining and provide an intuitive understanding	A novel multi-dimensional visualization tool
Do the statistical tests to evaluate the completeness, discover interesting correlations	Statistical codes or services
Publish electronically: scientific results; value-added data sets; the workflow; database queries; useful tools, if any were developed	Novel publishing venues that can accommodate the new content