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Seminar Series

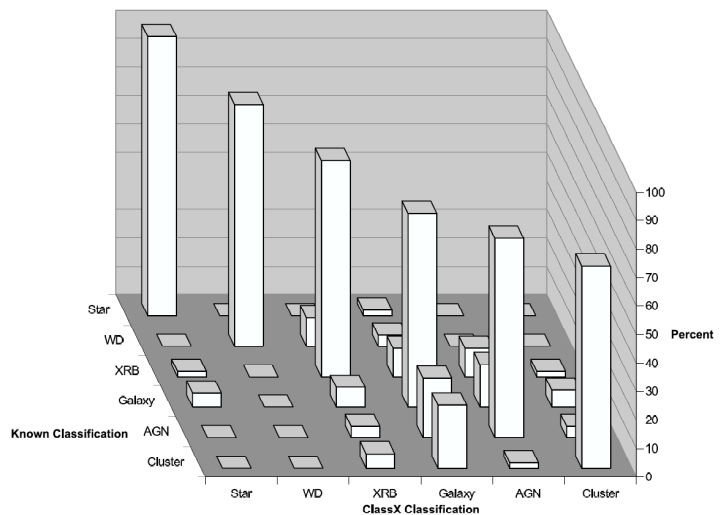
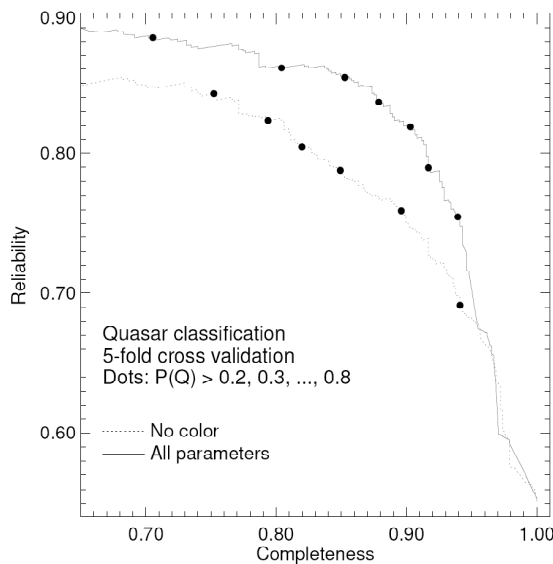
Mining the Virtual Observatory Using Automated Classifiers

Richard White

Astronomer, Space Telescope Institute

4pm Wednesday, March 1, 2006

Auditorium of the Center for Imaging Science



The flood of astronomical data from current and coming projects requires new tools for the discovery of interesting patterns and phenomena. Automated classifiers (neural nets, decision trees, etc.) are valuable and flexible. Existing classification algorithms are challenged by the peculiar characteristics of astronomical data (common to many other scientific data sets) such as measurement noise and upper limits for non-detections. Applications to catalogs containing billions of objects also present a computational challenge. This talk will present an overview of how classifiers work, will describe their use for some astronomical problems, and will discuss prospects for future developments.

www.cis.rit.edu/seminar

for up-to-date seminar schedule, video archives and abstracts.

Speaker Biography

Dr. White comes to us from the Space Telescope Science Institute where he has done extensive work on the development of innovative image analysis algorithms, the application and enhancement of statistical techniques and data mining tools from a variety of disciplines, and the development of pipelines for data analysis, processing, and archiving.