

Realtime Astronomical Time-series Classification and Broadcast Pipeline

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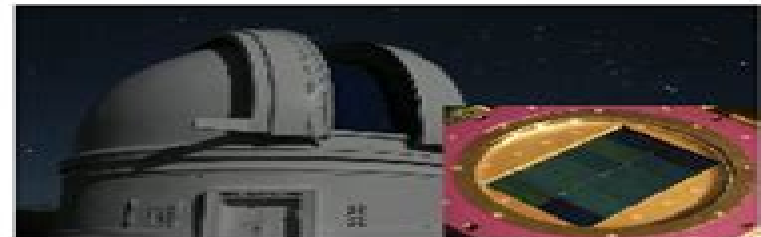
The Transients Classification Pipeline (TCP) is a Berkeley-led, Python based project which federates data streams from multiple surveys and observatories, classifies with machine learning and astronomer defined science priors, and broadcasts sources of interest to various science clients. This multi-node pipeline uses Python wrapped classification algorithms, some of which will be generated by training machine learning software using astronomer classified time-series data. Dozens of context and time-series based features are generated in real time for astronomical sources using a variety of Python packages and remote services.

Project Overview

Astronomy is entering an era of large aperture, high throughput surveys with ever increasing observation cadences and data rates. Because of the increased time resolution, science with fast variability or of an explosive, “transient” nature is becoming a focus for several up and coming surveys. The Palomar Transients Factory (PTF) is one such project [PTF]. The PTF is a consortium of astronomers interested in high variability, “transient” science, and which has a dedicated survey telescope as well as several follow-up telescope resources.

Berkeley’s Transients Classification Pipeline (TCP) is a Python based project that will provide real-time identification of transient science for the Palomar Transients Factory’s survey telescope, which goes online in November 2008.

The PTF’s survey instrument is a ~ 100 megapixel, 7.8 square-degree detector attached to Palomar Observatory’s Samuel Oschin 48 inch diameter telescope. Taking 60 second exposures, this instrument produces up to 100 Gigabytes of raw data per night. Immediately following an observation’s exposure and read-out from the detector, the data is uploaded to Lawrence Berkeley Laboratory for calibration and reduction, which results in tables of positions and flux measurements for objects found in each image. The TCP takes this resulting data and after several steps, identifies astronomical “sources” with interesting science classes, which it broadcasts to follow-up scheduling software. PTF affiliated telescopes are then scheduled to make follow-up observations for these sources.



Palomar 48 inch telescope, PTF survey detector on an older instrument (inset).

The TCP is designed to incorporate not only the Palomar 48 inch instrument’s data stream but other telescope data streams and static surveys as well. The software development and testing of the TCP makes use of SLOAN Digital Sky Survey’s “stripe82” dataset [SDSS] and the near-infrared PAIRITEL telescope’s real-time data stream [PAIRITEL]. Prior to the commissioning of the Palomar instrument, the TCP will be tested using a historically derived data stream from the preceding Palomar Quest survey on the Palomar 48 inch telescope.

A long term goal of the Transients Classification Pipeline is to produce a scalable solution to much larger, next generation surveys such as LSST. Being a Python based project, the TCP has so far been relatively easy to implement and scale to current processing needs using the parallel nature of “iPython”. Although the TCP’s processing tasks are easily parallelized, care and code optimization will be needed when scaling to several orders of magnitude larger next generation survey data streams.



Two of PTF’s several follow-up telescopes: Palomar 60 inch, PAIRITEL (inset).

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