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Data Central's Data Aggregation Service

Content

Observational data are now accessible in a wide variety of online interfaces that may be queried programmatically (e.g. from Python). These include IVOA DAL services (e.g. TAP, SIA, SSA and SCS), HiPS sky maps, cubes and catalogues (e.g. using MOCs), and API endpoints (e.g. VizieR ASU; MAST PANSTARRS/HSC catalogues; Gemini archive). Even with a list of known services, it can be laborious for the average astronomer to check whether a favourite target has any data available, especially since each service also has its own idiosyncrasies to learn. In this talk we will introduce a Data Aggregation Service (DAS) developed for the Commensal Real-time ASKAP Fast Transients (CRAFT) survey team to quickly inspect Fast Radio Burst (FRB) candidates. The DAS is a Django Python web application that uses Aladin Lite to aggregate catalogue and imaging data from multiple services for a given sky position of interest. An overlay in Aladin Lite shows the FRB position and its uncertainty, while several catalogues from multiple services are loaded into Aladin Lite. The latter may be downloaded or sent directly to TOPCAT via Web SAMP. Apart from HiPS images, Aladin Lite can display FITS data sourced directly from SIA and other services (e.g. Gemini archive), allowing for versatile data visualisation and discovery. We plan to extend DAS by adding user management, allowing for a wide range of astronomers to customise and benefit from its unique aggregation capabilities.

Preferred talk time

Any of the Apps or DAL sessions are fine. Timezone: UTC+10 (Sydney)

Primary author: MISZALSKI, Brent (Macquarie University)

Presenter: MISZALSKI, Brent (Macquarie University)

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Submitted by **MISZALSKI, Brent** on **Sunday 09 May 2021**