Publishing Links to Astronomical Data On-line

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Abstract

We describe the design and implementation of a service for linking astronomical data to a large number of different data providers. We will present the architecture of the service, with particular emphasis on the data provider interface and the service's API. The service is designed to be extensible, allowing for the addition of new data providers and new services. The service is currently being used to publish astronomical data on-line, and the service's API is designed to be accessible to a wide range of users, from astronomers to the general public. The service is built on top of a number of different data providers, including the NASA's High Energy Astrophyysical Science Archive (HEASARC), the IRSA data archive, and the NASA's MAST data archive. The service is designed to be accessible to a wide range of users, from astronomers to the general public. The service is built on top of a number of different data providers, including the NASA's High Energy Astrophyysical Science Archive (HEASARC), the IRSA data archive, and the NASA's MAST data archive.

Overview

This paper describes the design and implementation of a service for linking astronomical data to a large number of different data providers. The service is designed to be extensible, allowing for the addition of new data providers and new services.

The service's architecture is composed of three main components: the data provider interface, the service's API, and the data provider. The data provider interface is responsible for connecting the service to the data provider, allowing the service to access the data provider's data. The service's API is responsible for exposing the data to the user, allowing the user to query the data and retrieve the results. The data provider is responsible for providing the data to the service.

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Dataset Identifiers

In order to allow easy integration of the data in the emerging SDSS framework, the NED has adopted a group for the data with the ID "NED". The group for the data with the ID "NED" is accessible through the following URL:

http://www.ned.ipac.caltech.edu

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Generating Dataset Identifiers

A NED-Centurion framework is used for the generation of dataset identifiers. The framework is designed to generate unique dataset identifiers for each dataset, allowing for easy integration of the data in the emerging SDSS framework.

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Registering a Data Verification Service

In order to verify the correctness of the data, a Data Verification Service (DVS) is provided. The DVS is responsible for verifying the correctness of the data, allowing for easy integration of the data in the emerging SDSS framework.

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Data Verifier PERL Toolkit

This toolkit is used for the verification of the data, allowing for easy integration of the data in the emerging SDSS framework.

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