ESCAPE European Data Provider Forum and Training Event

Rapport sur les contributions

Welcome

ID de Contribution: 6 Type: Non spécifié

Welcome

mardi 23 novembre 2021 09:00 (5 minutes)

Orateur: DEMLEITNER, Markus (Universität Heidelberg)

Classification de Session: Welcome and introduction

ID de Contribution: 7 Type: Non spécifié

Introduction to the VO

mardi 23 novembre 2021 09:05 (20 minutes)

Orateur: HEINL, Hendrik (CDS/ObAS)

Classification de Session: Welcome and introduction

ID de Contribution: 8 Type: Non spécifié

The ESO Archive experience in adopting VO Technologies

mardi 23 novembre 2021 09:25 (20 minutes)

Orateur: MICOL, Alberto (ESO)

Classification de Session: Welcome and introduction

ID de Contribution: 9 Type: Non spécifié

VO publication and EOSC publication

mardi 23 novembre 2021 09:45 (20 minutes)

Orateur: MOLINARO, Marco (INAF)

Classification de Session: Welcome and introduction

ID de Contribution: 10 Type: Non spécifié

Mapping VO Protocols/Metadata on top of existing archive

mardi 23 novembre 2021 11:00 (20 minutes)

Imagine you are in charge of a project on-line archive and you want to integrate it in the VO framework.

Depending of the nature of your data (images, spectra, cubes, timeseries, catalogs) and on the completeness you want to reach the choice of protocols to implement will be different.

The talk will make a review of the various possibilities according to various examples.

Orateur: BONNAREL, François (CDS ObAS CNRS Université de Strasbourg)

Classification de Session: Presentations

ID de Contribution: 11 Type: Non spécifié

Provenance of published data (postponed to Wed. 12:00)

mardi 23 novembre 2021 11:20 (20 minutes)

In the context of Open Science, data provenance has become a key piece of information to be provided with astronomical data. It is particularly essential to ensure trust in the data, thus promoting its reuse. As such, provenance is explicitly mentioned in the FAIR principles, which aim to make research data Findable, Accessible, Interoperable and Reusable. In practice, provenance should come with the appropriate granularity and level of details. Based on the IVOA Provenance data model, I will present several proposed solutions to capture, store and access provenance metadata for published data.

Orateur: SERVILLAT, Mathieu (LUTH, Observatoire de Paris)

Classification de Session: Presentations

ID de Contribution: 12 Type: Non spécifié

CAOM within the ESAC Science Data Centre

mardi 23 novembre 2021 11:40 (20 minutes)

We would like to present an overview of the Common Archive Observation Model (CAOM), a general purpose data structure for use as the core data model of an astronomical data centre, designed by the Canadian Astronomy Data Centre (CADC). This common model is being used at the ESAC Science Data Centre (ESDC) in the contexts of the European Hubble and James Webb Space Telescopes Science Archives. We will demonstrate how we made possible to achieve a fruitful collaboration between Space Telescope partners by making use of a common observation data model, together with software projects built around it to enable the collection, exchange and verification of astronomical datasets.

Orateurs: AREVALO SANCHEZ, Maria (ESA); ESPINOSA, Javier (ESA)

Classification de Session: Presentations

ID de Contribution: 13 Type: Non spécifié

Providing access to Solar System & heliophysics data (VESPA / Europlanet)

mardi 23 novembre 2021 12:00 (20 minutes)

VESPA (Virtual European Solar and Planetary Access) has been focusing for nearly 10 years on adapting Virtual Observatory (VO) techniques to handle Planetary Science data. The objective of this activity is to build a contributive data distribution system where data services are located and maintained in research institutes, as well as in space agencies and observatories. VESPA is part of Europlanet, a series of programs funded by the European Union and dedicated to enforcing collaborative activities in Planetary Science both within and outside Europe. A new program called Europlanet-2024 has started in 2020 for a 4-year period. VESPA has defined an architecture adapted from the astronomy VO, and incorporating concepts and standards from other areas (Earth observation, Heliophysics, etc). The basic system uses the VO infrastructure: data services are installed in any location but are declared in a system of harvested registries with identifiers. Such services are interoperable via clients and tools, which also provide visualization and analysis functions. A specific access protocol (EPN-TAP) has been defined to allow the user to identify data of interest.

Orateur: ERARD, Stéphane (LESIA)

Classification de Session: Presentations

ID de Contribution: 14 Type: Non spécifié

Taplint, STIL and samp.js

mardi 23 novembre 2021 14:00 (2h 30m)

Validating TAP services with taplint Using STIL to process VOTable in Java Connecting Web pages and VO Tools with samp.js

Orateur: TAYLOR, Mark (University of Bristol)

Classification de Session: Workshops

ID de Contribution: 15 Type: Non spécifié

What you're always wanted to as about DaCHS and VO data publishing

mardi 23 novembre 2021 14:00 (2h 30m)

Fallback topics: HTML templating in DaCHS, writing examples

Orateur: DEMLEITNER, Markus (Universität Heidelberg)

Classification de Session: Workshops

ID de Contribution: 16 Type: Non spécifié

Stored Data Retrieval through Virtual Observatory standards

mercredi 24 novembre 2021 09:30 (20 minutes)

A service to retrieve data stored both in a long term preservation storage and in a fast access file system has been built at the Italian Astronomical Archives (IA2), based on Virtual Observatory standards. Some IA2 users have the need to store big sized data sets for a long term. At the same time, they need to recall these data when needed, perform analysis and store the new results. The proposed hardware solution is built on a long term preservation storage (tape library) connected to a fast access storage node for direct data exploitation. The software service has a data retrieval web interface based on IVOA standards: VOSpace for the data transfer and access, Single Sign-On (SSO) for the authentication, Group Membership Service (GMS) for the authorization, Universal Worker Service (UWS) to manage transfers. The plan for the future, after putting the service into production, is to exploit the use of IVOA standards to make this service interoperable with other similar in different data centres.

Orateur: BERTOCCO, Sara (INAF-OATs)

Classification de Session: Presentations

ID de Contribution: 17 Type: Non spécifié

ARTEMIX / Yaftis - Remote 3D viewer

mercredi 24 novembre 2021 09:50 (20 minutes)

Yafits (Yet Another FITS viewer) is a standalone web application that enables remote visualisation of 3D data cubes hosted in FITS format on the server-side. The client can display images and spectra in order to quick-look the scientific content of the observations. The prime use is for radio-astronomy data, ie the ones from ALMA, IRAM/NOEMA or SKA but any kind of 2D or 3D FITS could be remotely accessed. Dedicated methods for radio data inspection have been implemented, like for instance the comparison with expected spectral lines frequencies compiled in molecular database catalogues. Yafits also uses SAMP for interoperability with Aladin or CASSIS to enable further data analysis. Yafits is integrated into ARTEMIX (ALMA RemoTE data MIning eXperiment http://artemix.obspm.fr) a web service that offers remote FITS visualisation of the ALMA scientific Archive since 2016 and which is continuously evolving with Yafits new features.

Orateur: SALOME, Philippe (LERMA, Observatoire de Paris)

Classification de Session: Presentations

ID de Contribution: 18 Type: Non spécifié

Low Frequency Radio Astronomy on the VO

mercredi 24 novembre 2021 10:10 (20 minutes)

We present the MASER (Measurement, Analysis, and Simulation of Emissions in the Radio range) toolbox, which enables science ready access to low frequency radio astronomy data. MASER focuses on time-domain and dynamic spectra data products and associated tools. Being at the interface between astronomy, heliophysics and planetary sciences, we make use of interoperable standards from each world (VOTable, TAP and UWS from the IVOA, EPN-Core from Planetary Sciences, or Das2 from heliophysics).

Orateur: CECCONI, Baptiste (Observatoire de Paris)

Classification de Session: Presentations

ID de Contribution: 19 Type: Non spécifié

Publishing survey data from the Observatorio Astrofísico de Javalambre (OAJ): The CEFCA Catalogues Portal

mercredi 24 novembre 2021 11:00 (20 minutes)

The Centro de Estudios de Física del Cosmos de Aragón (CEFCA) is carrying out from the Observatorio Astrofísico de Javalambre (OAJ, Teruel, Spain) two large area multiband photometric sky surveys, J-PLUS and J-PAS, covering the entire optical spectrum using narrow and broad band filters. J-PAS and J-PLUS include coadded and individual frame images, dual and single catalogue data which include parameters measured from coadded images and photo-redshift computations. This contribution presents the CEFCA Catalogues portal (archive.cefca.es). A powerful web portal which has been implemented to publish all this survey data offering advanced tools, each suited to a particular need, for data search, visualization and download. This portal includes web user interface services such as sky navigator, object visualization, object list search, ADQL asynchronous queries interface, cone search and image search and download. All these web interface services support SAMP protocol to interoperate and communicate with VO-compatible applications. The CEFCA catalogues portal also offers all of this data through Virtual Observatory (VO) services like SIAP, SCS, TAP and catalogue and images HIPS. Moreover, the CEFCA Catalogues portal enhances data publication of these large surveys following FAIR principles to maximize research efficiency.

Orateur: CIVERA LORENZO, Tamara (CEFCA (Centro de Estudios de Física del Cosmos de Aragón))

Classification de Session: Presentations

ID de Contribution: 20 Type: Non spécifié

The EVN data archive VO service

mercredi 24 novembre 2021 11:20 (20 minutes)

At JIVE we are working on making interferometric visibility data from the European VLBI Network (EVN) archive available through VO protocols. For this purpose we have built a TAP service that serves ObsCore records. To create these records we wrote some special-purpose software in Python that extracts the necessary meta-data from FITS-IDI files. In this presentation I will discuss some of the choices made when writing this software as well as some further improvements we still intend to make before the service goes "live". I'll finish with some results on an attempt characterize the UV-coverage of VLBI data using a parametrization that is being considered for a Radio-specific extension to ObsCore.

Orateur: KETTENIS, Mark (JIVE)

Classification de Session: Presentations

ID de Contribution: 21 Type: Non spécifié

Publishing the e-MERLIN archive

mercredi 24 novembre 2021 11:40 (20 minutes)

Progress in publishing the e-MERLIN archive, and the role of this work as a precursor to SKA Regional Centre development will be described.

Orateur: HARRISON, Paul (Jodrell Bank, University of Manchester)

Classification de Session: Presentations

ID de Contribution: 22 Type: Non spécifié

Powering up a data access service (e.g. TAP) with VOLLT

mercredi 24 novembre 2021 14:00 (2h 30m)

Orateur: MANTELET, Grégory (CDS, Observatoire Astronomique de Strasbourg)

Classification de Session: Workshops

ID de Contribution: 23 Type: Non spécifié

Publishing HiPs on MOCServer2 & Aladin Lite

mercredi 24 novembre 2021 14:00 (2h 30m)

The Material we will be using is: http://cds.unistra.fr/adass2018/

Please look into the requirements! In particular the download of the fits images will be \sim 200 MB

Further useful links are: http://aladin.u-strasbg.fr/hips/HipsIn10Steps.gml http://aladin.u-strasbg.fr/hips/HipsCat.gml

Orateur: HEINL, Hendrik (CDS/ObAS)

Classification de Session: Workshops

ID de Contribution: 24 Type: Non spécifié

VOSSIA: Your Lordship Shall configure and publish simple services

mercredi 24 novembre 2021 14:00 (2h 30m)

Orateur: CALABRIA, Nicola (INAF)

Classification de Session: Workshops

ID de Contribution: 25 Type: Non spécifié

Taplint/STIL/samp.js questions

mercredi 24 novembre 2021 14:00 (2h 30m)

Orateur: TAYLOR, Mark (University of Bristol)

Classification de Session: Workshops

ID de Contribution: 26 Type: Non spécifié

What you're always wanted to as about DaCHS and VO data publishing

mercredi 24 novembre 2021 14:00 (2h 30m)

Fallback topics: Metaprogramming in DaCHS, Regression Testing

Orateur: DEMLEITNER, Markus (Universität Heidelberg)

Classification de Session: Workshops

ID de Contribution: 27 Type: Non spécifié

ESAP: the ESCAPE ESFRI Science Analysis Platform

jeudi 25 novembre 2021 09:30 (20 minutes)

ESAP, the ESCAPE ESFRI Science Analysis Platform, is being developed to provide a flexible toolkit for constructing science platforms. It provides capabilities to quickly unite a range of data access and analysis services —in particular those developed by the ESCAPE project —behind a single, consistent but customizable, user interface. In this presentation, I will provide a brief overview of ESAP's aims, its architecture, and its current and expected future capabilities.

Orateur: SWINBANK, John (ASTRON)

Classification de Session: Presentations

ID de Contribution: 28 Type: Non spécifié

Catalog of Coronal Hole detection in TAP service

jeudi 25 novembre 2021 09:50 (20 minutes)

Coronal holes (CH) are seen as dark features on EUV images of the Sun. They are the source of the fast solar wind, and as such are closely monitored. The CH feature recognition module named SPoCA-CH was developed at the Royal Observatory of Belgium. Since 2010, one version of this software is running at LMSAL and provides near-real time detection of coronal holes. We would like to provide the outputs from an updated version of SPOCA-CH as a catalog for a VESPA TAP service. In this talk, we will discuss our progress, as well as questions regarding the encoding of tracking or provenance information within this TAP service.

Orateur: DELOUILLE, Veronique (STCE/Royal Observatory of Belgium)

Classification de Session: Presentations

ID de Contribution: 29 Type: Non spécifié

ASTRON data holdings

jeudi 25 novembre 2021 10:10 (20 minutes)

Orateur: GRANGE, Yan (ASTRON, the Netherlands Institute for Radio Astronomy)

Classification de Session: Presentations

ID de Contribution: 30 Type: Non spécifié

Panel

jeudi 25 novembre 2021 11:00 (1 heure)

Discussion on the creation of a practical problem-solving platform to facilitate implementations and prototypes of interoperable access to ESFRI and pathfinder data: This involves the identification of a pool of expertise (e.g., web pages and communication channels) for the collection of documented common solutions, as well as ways to bring those to the interested parties.

Orateurs: GRAF, Kay (ECAP - University of Erlangen); MOLINARO, Marco (INAF); ALLEN, Mark (CDS/CNRS); DEMLEITNER, Markus (Universität Heidelberg)

Classification de Session: Panel - Problem solving platform for data providers

ID de Contribution: 31 Type: Non spécifié

Manage and customise your TAP_SCHEMAta with TASMAN

jeudi 25 novembre 2021 14:00 (2h 30m)

Orateur: ZORBA, Sonia (INAF)

Classification de Session: Workshops

ID de Contribution: 32 Type: Non spécifié

Taplint/STIL/samp.js questions

jeudi 25 novembre 2021 14:00 (2h 30m)

Orateur: TAYLOR, Mark (University of Bristol)

Classification de Session: Workshops

ID de Contribution: 33 Type: Non spécifié

What you're always wanted to as about DaCHS and VO data publishing

jeudi 25 novembre 2021 14:00 (2h 30m)

Patterns in Operation, PIDs in DaCHS

Orateur: DEMLEITNER, Markus (Universität Heidelberg)

Classification de Session: Workshops

ID de Contribution: 34 Type: Non spécifié

Provenance of published data

mercredi 24 novembre 2021 12:00 (20 minutes)

In the context of Open Science, data provenance has become a key piece of information to be provided with astronomical data. It is particularly essential to ensure trust in the data, thus promoting its reuse. As such, provenance is explicitly mentioned in the FAIR principles, which aim to make research data Findable, Accessible, Interoperable and Reusable. In practice, provenance should come with the appropriate granularity and level of details. Based on the IVOA Provenance data model, I will present several proposed solutions to capture, store and access provenance metadata for published data.

Orateur: SERVILLAT, Mathieu (LUTH, Observatoire de Paris)

Classification de Session: Presentations