

Report from event supported by RadioNet

Title	<i>Astronomical Data Analysis Software and Systems (ADASS) 2020</i>
Date:	<i>November 8-12, 2020</i>
Location:	<i>ONLINE ONLY</i>
Meeting webpage:	<i>https://adass2020.es</i>
Host Institute:	<i>IRAM & IAA</i>
RadioNet beneficiary / no:	<i>IRAM/03</i>

Report:

Scientific summary

Conference Web Page: <https://adass2020.es>

The Astronomical Data Analysis Software and Systems (ADASS) conference is held each year at a different hosting astronomical institution. The conference provides a forum for scientists and programmers concerned with algorithms, software and software systems employed in the acquisition, reduction, analysis, and dissemination of astronomical data. An important element of the program is to foster communication

between developers and users with a range of expertise in the production and use of software and systems. The program consists of invited talks, contributed oral and display papers, tutorials, user group meetings and special interest group meetings (called BOFs).

RadioNet relevance

Several RadioNet institutions were represented either as hosts (IRAM) or as participants (ASTRON, INAF, ESO, JIVE, LOFAR and more). Several RadioNet projects were discussed and presented to the wider ADASS community.

Impact

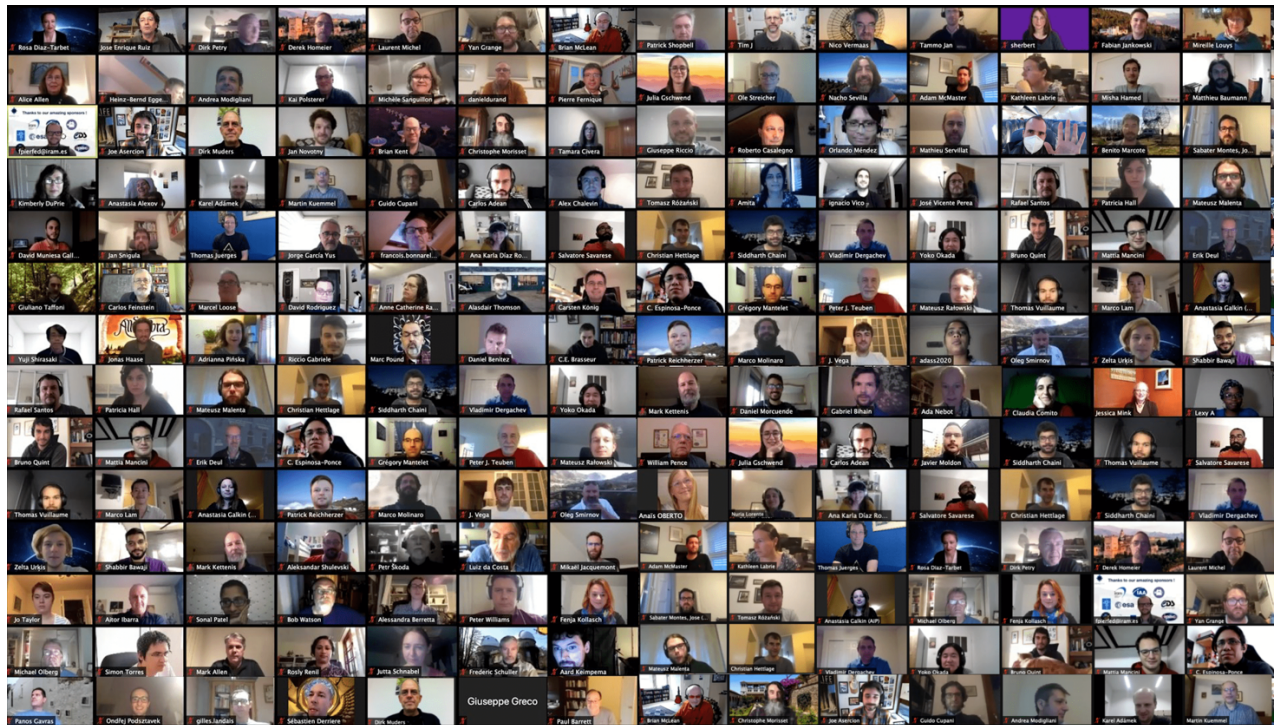
ADASS is the main world-wide forum to discuss technical advancements in all areas related to acquisition, processing, archiving and dissemination of astronomical data. As such, it is a unique conference and very distinct from other venues such as SPIE (mostly concerned with instrumentation and lower-level software) or meetings concentrated on narrow topics.

Agenda of the event

Attached to this report and here: <https://schedule.adass2020.es/adass2020/schedule/>
For a list of posters: <https://adass2020.es/posters/>

Participants

ADASS 2020 saw 581 registed participants from all over the world. The conference picture was taken over Zoom and only includes those participants awake at the time.



RadioNet financial contribution

RadioNet had granted this event with 8.580€ for organization costs. Due to COVID-19, the conference was modified and changed to an online format. Therefore, there are no costs to ask for reimbursement from RadioNet.

Publications

We are planning on publishing proceedings on ASP
(<https://www.adass.org/proceedings.html>)

Confirmation

Following the Regulation (EU) 2016/679 - General Data Protection Regulation-, we confirm that RadioNet is allowed to publish this report, incl. participants lists, statistic's details, pictures, etc..

Sunday, Nov. 8,
2020

Monday, Nov. 9,
2020

Tuesday, Nov. 10,
2020

Wednesday, Nov. 11,
2020

Thursday, Nov. 12,
2020

Times in UTC

06:00

Tutorial - Multimessenger Astronomy with ObsTAP and pyVO Hendrik Heintz, Dave Morris

07:00

08:00

09:00

10:00

Tutorial - From Semantic segmentation to Instance Segmentation using DeepLearning. Humberto Farias

11:00

12:00

Tutorial - Interactively exploring and visualizing data on the sky with Jupyter and PyVO Peter K. G. Williams

13:00

14:00

15:00

16:00

17:00

Tutorial - A Hands-on Introduction to Deep Learning with DeepForge Brian Broll

18:00

19:00

[Sunday, Nov. 8, 2020](#)
[Monday, Nov. 9, 2020](#)
[Tuesday, Nov. 10, 2020](#)
[Wednesday, Nov. 11, 2020](#)
[Thursday, Nov. 12, 2020](#)

Times in UTC

05:00	
06:00	<p>Welcome from IRAM & IAA (Morning Replay) (Francesco Pierfederici)</p> <p>Opening Remarks (Kathleen Labrie)</p> <p>Logistics Info (Morning Replay) (Francesco Pierfederici)</p> <p>Invited Talk (I6-25) - Developing a Data Carpentry Curriculum for the Astronomical Community K. Azalee Bostroem</p>
07:00	<p>BREAK</p> <p>Oral Contribution (O6-30) - Storage Schema of Time Series Astronomical Data for Artificial Intelligence Analysis Kun Li</p> <p>Oral Contribution (O1-68) - Aladin Lite v3: behind the scenes of a major overhaul Matthieu Baumann</p> <p>BREAK</p>
08:00	<p>BoF (B10-133) - Best licensing practices Yan Grange, Matthias Fuessling, Thomas Juerges, Jutta Schnabel</p>
09:00	
10:00	
11:00	<p>Invited Talk (I5-175) - From Photometric Redshifts to Improved Weather Forecasts: an interdisciplinary view on machine learning in astronomy Kai Polsterer</p> <p>BREAK</p> <p>Oral Contribution (O5-77) - Exploring the use of Graph and Machine / Deep Learning technologies with the NASA ADS content Sergi Blanco-</p>
12:00	<p>Oral Contribution (O6-104) - Astronify: listening to the stars Clara Brasseur</p> <p>Oral Contribution (O5-37) - Probing neural networks for science: What is it they are learning? Colin Jacobs</p> <p>BREAK</p>
13:00	<p>BoF (B11-143) - BoF: Interoperability of Users, Developers, and Managers Jan Noordam</p>
14:00	
15:00	
16:00	
17:00	<p>Invited Talk (I10-39) - Astropy Kelle Cruz</p> <p>BREAK</p> <p>Oral Contribution (O10-53) - The Multi-Mission Maximum Likelihood Framework threeML: Multi-wavelength astronomy in practice Henrike</p> <p>Oral Contribution (O11-156) - astroquery: a community driven collaboration of data providers and data consumers Brigitta Sipőcz</p> <p>Oral Contribution (O11-35) - Organising ADASS in a Pandemic Francesco Pierfederici</p> <p>Focus Demo (D1-66) - Radiopadre: remote, interactive, zero-admin visualization of data pipeline products Oleg Smirnov</p>
18:00	
19:00	<p>BoF (B10-129) - How to better describe software for discovery and citation Peter Teuben, Alice Allen, G. Bruce Berriman</p>
20:00	

Times in UTC

06:00	Invited Talk (I7-21) - Galaxy Zoo & The Zooniverse - citizen science as a powerful tool in the age of big data Becky Smethurst
	BREAK
	07:00-07:15
	Oral Contribution (O7-45) - CICLOPS: Citizen Computing Pulsar Searches Matteo Bachetti
07:00	Oral Contribution (O7-153) - Hubble Asteroid Hunter: exploring the ESA Hubble archives with citizen science Sandor Kruk
	Oral Contribution (O7-52) - Citizen science with the TESS photometer network Sergio Pascual
	Focus Demo (D7-114) - Arcsecond.io: an hybrid commercial/citizen-science project for astronomical observations Cédric Foellmi
08:00	BoF (B4-95) - It worked on my laptop! - how to approach reproducibility in astronomy? Mateusz Malenta
09:00	
10:00	
11:00	Invited Talk (I3-20) - PySAP: From Galaxies to Brains and Beyond Samuel Farrens
	BREAK
	Oral Contribution (O3-130) - iDaVIE-v: immersive Data Visualisation Interactive Explorer for volumetric rendering Lucia Marchetti, Angus Comrie
12:00	Oral Contribution (O3-137) - Exploring the Universe with pyESASky JupyterLab widget Marcos López-Cañiego
	Oral Contribution (O3-78) - Holding the Cosmos in Your Hand: Developing 3D Data Pipelines Kimberly Kowal Arcand
	Focus Demo (D2-29) - Pangeo Data Analysis Platform at CNES and Astronomical Use Cases Guillaume Eynard Bontemps
13:00	BoF (B4-154) - Standardizing New and Improving Old Data Formats in Astronomy Jessica Mink
14:00	
15:00	
16:00	
17:00	Invited Talk (I1-159) - Enabling next-generation science investigations with the NASA Astrophysics Archives Vandana Desai
	BREAK
	Oral Contribution (O1-22) - TOPCAT Visualisation over the Web Mark Taylor
18:00	Oral Contribution (O1-124) - A microservice-oriented science platform architecture Stefano Alberto Russo
	Oral Contribution (O1-32) - CANCELLED - Serving power-users and novices. Architecture and lessons learned with science platform MuseWISE. Gijs
	Focus Demo (D2-109) - Introducing the Trillian Framework and Science Data Descriptors Demetri Muna
19:00	BoF (B9-56) - Practical Provenance in Astronomy Mathieu Servillat, François Bonnarel, Mireille Louys, Michèle Sanguillon
20:00	

Times in UTC

06:00	Invited Talk (I6-265) - What did we get right? Lessons learned from the first 300 million alerts of ZTF Matthew J Graham
	BREAK
	Oral Contribution (O1-98) - Interactive exploration framework for big data sets Fenja Kollasch
07:00	Oral Contribution (O2-14) - ESA Datalabs: an e-Science Platform for Data Exploitation and Preservation at ESAC Vicente Navarro
	Oral Contribution (O4-79) - On the capability to encoding gravitational-wave sky localizations with the Multi Order Coverage data structure:
	Focus Demo (D1-102) - Checkpoint, Restore, and Live Migration for Science Platforms Mario Juric, Colin Slater, Steven Stetzler
08:00	BoF (B9-86) - Standardisation of Data Formats in Gamma-ray astronomy Cosimo Nigro, Tarek Hassan
09:00	
10:00	
11:00	Invited Talk (I9-23) - Data Interoperability - the CDS experience Fernique Pierre
	BREAK
	Oral Contribution (O9-120) - Data Interoperability at the core of The Euclid Scientific Archive System Pilar de Teodoro
12:00	Oral Contribution (O9-27) - The Advanced Scientific Data Format (ASDF): Why you should use it Perry Greenfield
	Oral Contribution (O9-94) - Using Docker in a radio-astronomy environment Mateusz Malenta
	Lightning Talks I (Alice Allen)
13:00	BoF (B9-50) - Radio data archives round table Katharina Lutz, Christopher, James Dempsey, Yan Grange, Mark Kettenis, Mark Lacy
14:00	
	Poster Video Watching Party (Simón Torres)
15:00	
16:00	
	Oral Contribution (O11-272) - Virtual Visit to Calar Alto Observatory Gilles Bergond, Jesús Aceituno
17:00	All the shades of the Cloud (Giuliano Taffoni)
	BREAK
	Oral Contribution (O2-157) - Calibrating Hubble Data in the Commercial Cloud Brian Hayden
18:00	Oral Contribution (O1-115) - Development of Scientific Data Applications for Science Cloud Platforms Nick Cox, Jeronimo Bernard
	Oral Contribution (O3-136) - Analyzing Scientific Big Data with the Helmholtz Analytics Toolkit (HeAT) Claudia Comito
	Lightning Talks II (Alice Allen)
19:00	BoF (B2-73) - Cost Management on Commercial Cloud Platforms G. Bruce Berriman
20:00	
	Social Event (Francesco Pierfederici)
21:00	

Sunday, Nov. 8, 2020	Monday, Nov. 9, 2020	Tuesday, Nov. 10, 2020	Wednesday, Nov. 11, 2020	Thursday, Nov. 12, 2020
----------------------	----------------------	------------------------	--------------------------	-------------------------

Times in UTC

06:00	Invited Talk (I8-105) - The Pan-STARRS IPP : Lessons Learned and Looking Forward Eugene Magnier
	BREAK
	Oral Contribution (O8-111) - A scalable transient detection pipeline for the Australian SKA Pathfinder VAST survey Sergio Pintaldi
07:00	Oral Contribution (O8-63) - Tiling the Euclid Sky Martin Kuemmel
	Oral Contribution (O1-112) - Realtime Data Transferring and Processing from Remote Telescopes Using Apache NiFi and MongoDB Lloyd
	BREAK
08:00	
09:00	
10:00	
11:00	Invited Talk (I8-57) - NOEMA: How 1Million lines of code make the optically dark universe visible Melanie Krips
	BREAK
	Oral Contribution (O8-131) - Distributed Streaming Radio Astronomy Reduction with Dask Simon Perkins
12:00	Oral Contribution (O11-96) - Astronomical research in the next decade: trends, barriers and needs in data access, management, visualization and
	Oral Contribution (O4-144) - Supporting observatory coordination with new standards: current status Aitor Ibarra Ibaibarriaga
	Focus Demo (D8-132) - Parallel Radio Astronomy Application Development with Dask and Numba Simon Perkins
13:00	
14:00	
15:00	
16:00	Group Photo (Francesco Pierfederici)
17:00	Invited Talk (I6-31) - Machine Learning for the Zwicky Transient Facility Dmitry Duev
	BREAK
	Oral Contribution (O4-151) - Using Artificial Neural Networks to detect astronomical transients Katarzyna Wardega
18:00	Oral Contribution (O5-36) - Machine-Assisted Discovery Through Identification and Explanation of Anomalies in Astronomical Surveys Kiri
	Oral Contribution (O7-155) - The Hubble Image Similarity Project Joshua Peek
	Lightning Talks II (Alice Allen)
19:00	Software Prize Talk (H10-232) - CFITSIO - 3 decades of collaborative software development William Pence
	Birds of a Feather Discussion (Francesco Pierfederici)
	ADASS 2021 (Oleg Smirnov)
20:00	Closing Remarks (Francesco Pierfederici)