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UMS1440

Center for Direct Scientific Communication (CCSD)

Management

Nathalie Fargier, Director

Key figures

- 1,310,675 full-text documents in HAL
- 30 journals in open access on Episciences
- 13,083 conferences managed using Sciencesconf

Keywords

- Valorisation of publications
- Open science
- Scientific data
- Digital identity
- Interoperability
- FAIR principles

Mission and objectives

The joint service unit (UMS) "Center for Direct Scientific Communication" is jointly supervised by the CNRS, Inria and INRAE.

The CCSD's main mission is to support all those involved in research by offering services in archiving, open access dissemination and the valorisation of publications and scientific data.

It has created and developed, and now operates, the research infrastructure HAL+, which appears on the Ministry's research infrastructures road map. HAL+ is based on three technological and service platforms: HAL, Sciencesconf and Episciences.



HAL
science ouverte



sciences CONF
gestion de conférences



EPIsciences
overlay journals

The unit's main objectives are to:

- develop open archives for all research production and to offer open, cost-free access encouraging the visibility and the circulation of scientific and technical information;
- ensure the longevity of all collected data by securing repositories and by long-term archiving;
- connect the HAL open archive to major international platforms such as arXiv and Software Heritage;
- develop IT tools aimed at researchers and scientific communities in order to facilitate all forms of direct scientific communication;
- contribute to identifying French scientific production and to the automatic updating of administrative databases;
- facilitate the assimilation of services by providing user support;
- become involved in all French and international, particularly European, initiatives relating to open archives and scientific communication.



Centre
Lyon-Grenoble Auvergne-Rhône-Alpes



28 rue Louis Guérin
69100 Villeurbanne
Tel.: + 33 (0)4 78 87 25 25

<https://www.ccsd.cnrs.fr/en>



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Key open science player

These missions are an integral part of the Open Science dynamic and, since its establishment in 2000 by the CNRS, the CCSD has been a key player in open access, particularly through the HAL open archive, which is forming the basis of increasing numbers of institutional policies.

92% of French universities have chosen HAL for the valorisation of, and open access to, publications. INRAE has also chosen HAL with the objective of opening the science for all its research topics.

Collaboration and expertise

CCSD data and servers are hosted at IN2P3's Calculation Centre; long-term document conservation is carried out in partnership with CINES.

To encourage interconnection between HAL and the major international platforms, the CCSD is a partner of arXiv for publications in physics, mathematics and computer science, and of Software Heritage for the valorisation of research software source code. It also collaborates with OpenEdition and Humanum for publications and data in human and social sciences, as well as with the national research.data.gouv (RDG) platform to facilitate links between research publications and data.

It takes part in the work of the international COAR (Confederation of Open Access Repositories) network. In particular it curates the international directory of preprint servers DOAPR hosted by COAR.

Projects

- **HALiance** : focused on HAL, its objective is to broaden the range of services, to strengthen interactions with other knowledge ecosystem stakeholders and to fully satisfy both national and international Open Science excellence criteria. HALiance is a structuring facility for research in the P.I.A.3 (Equipex+).
- **HALOWIN** : improve interoperability between HAL and manuscript proofreading services (preprints). It is based on two potential uses: a publication service (Episciences) and a recommendation service (Peer Community In PCI). Project financed by FNSO.
- **OpenAIRE Nexus** : include Episciences in the catalogue of European Open Science Cloud (EOSC) services, by interfacing with OpenAIRE-Nexus' other services. European project (INFRAEOSC-07-2020).



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