

Funding from government, RPOs, and RFOs  
1.3m papers  
3.6m references



**HAL**  
open science

Open and share the knowledge

**+ Upload**



An international scope



A common good for research



A large collaborative community



An archive, some services

# Mission

- Launched in 2002 as a French public open repository
  - Technical and political support by French HEP community
  - Partnership with arXiv
- Political support by government (National Plan for Open Science), universities, and research organisations
- Political support by national research agency (ANR) and research assessment council (HCERES)
- *“HAL is a multidisciplinary open archive providing free access to published and unpublished research results. It serves researchers affiliated with academic institutions, whether public or private”*

# Ecosystem HAL

## **In the repository**

- 148 institutional portals
  - Universities, research organisations...
- Thousands of collections
  - Laboratories, projects...
- Management of identifiers
  - Persons, organisations, research projects

## **On top of the repository**

- 33 overlay journals
- Conference management system with 13,000 events
- Interconnection with local repositories
- Partnerships with journal platforms

# Data and metadata (1)

The screenshot displays the HAL repository's search results page. On the left, there are three filter sections: 'Type de dépôt', 'Type de document', and 'Sous-type de document'. The 'Type de dépôt' section shows 'Document' selected with 221614 items. The 'Type de document' section lists various document types like 'Communication dans un congrès', 'Article dans une revue', etc. The 'Sous-type de document' section lists more specific types like 'rapport de recherche', 'rapport technique', etc. The main area on the right shows a list of documents, each with a thumbnail, title, authors, and a HAL ID. The first document is 'Data Communication Algorithms for Emerg...' by Dhafer Ben Arbia. The second is 'Towards an interoperable device profile co...' by Cédric Dromzee, Sébastien Laborie, and Philippe Roose. The third is 'AccessLeaks: Investigating Privacy Leaks i...' by Mohammad Naseri, Nataniel P. Borges Jr., and Andreas Zeller. The fourth is 'SAREF-Compliant Knowledge Discovery for...' by Amélie Gyrard, Antonio Kung, Olivier Genest, and Alain More. The fifth is 'Efficient Consensus-Free Weight Reassignn...' by Hasan Heydari, Guhemberg Silvestre, and Luciana Arantes. The sixth is 'Simulation Maple© d'une machine à induct...' by Laurent Capocchi. The seventh is 'Flash sous Linux avec Eclipse' by Laurent Capocchi and Christophe Paoli. The eighth is 'Discrete-Event Simulation Model Generatic...' by Laurent Capocchi, Jean François Santucci, and Thorsten Pawl.

- Published and unpublished documents
- References
- Data (AV material)
- Self-archiving
- Mediated deposits (including import from other systems)

# Data and metadata (2)

The screenshot displays a research repository interface. On the left, a sidebar contains sections for 'Dates et versions' (showing HAL 01920949, version 1 from 2019), 'Identifiants' (HAL 50), 'Citer' (with a citation preview), 'Exporter' (options for BibTeX, XML/TEI, Dublin Core, DC Terms, EndNote, DataCite), 'Collections' (listing CHRS, INRIA, CRESTAL, INRIA2, CRESTAL/SPRALS, UNIV-LILLE, ANR), and 'Partager' (social media icons). The main content area features the title 'AccessLeaks: Investigating Privacy Leaks Exposed by the Android Accessibility Service', authors (Muhammad Nazeer, Natanel P. Borges Jr., Andreas Zeller, Romain Rouvoy), and a list of four funding sources: Saarland University, CISPA, SPARKS, and IUF. Below this is a 'Résumé' section with a text preview. To the right of the summary are 'Mots clés' (Accessibility services, Android, privacy) and 'Domaines' (Systeme d'exploitation (cs.OS), Réseaux, Information et médias, Information et systèmes, Génie logiciel (cs.SE), Cryptographie et sécurité (cs.CR)). A 'Liste complète des métadonnées' button is located below the domains. At the bottom, a 'Fichiers et aperçu' section shows a thumbnail of the paper's first page.

- Different sources
  - Self-archiving
  - Mediated deposits
- PID management (persons, structures)
- Compliance with Dublin Core and DataCite Metadata Schema
- Increasing compliance with assessment systems (type, subject/domain, funding)

# *Ease of use c. quality of metadata*

