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## User guide: how to file a document in HAL

Céline Smith

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Submitted on 3 Mar 2017

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## User guide : how to file a document in HAL



Céline Smith  
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March 2016



- What is Open Access
- Copyrights
- How to file a document at LAAS
- HAL and the LAAS collections
- How to file a document in HAL
- How to create your IdHAL

- 1.1. Introduction

OPEN ACCESS IS:

- FREE
- UNRESTRICTED
- ONLINE

## 1.2. Gold OA / Green OA

Source : [A qui appartient le savoir ?](#) / Sandrine Cabut et David Larousserie paru dans LE MONDE SCIENCE ET TECHNO le 28/02/2013

### Hijacked Gold OA

The “payment on behalf of the author” model is a perverted version of the original gold OA model : the researchers are required to pay APC when submitting papers to a journal so that their articles are proposed for immediate access and are free for the reader when posted on the publisher's site.

Black list of « predatory » publishers : <http://scholarlyoa.com/about/>

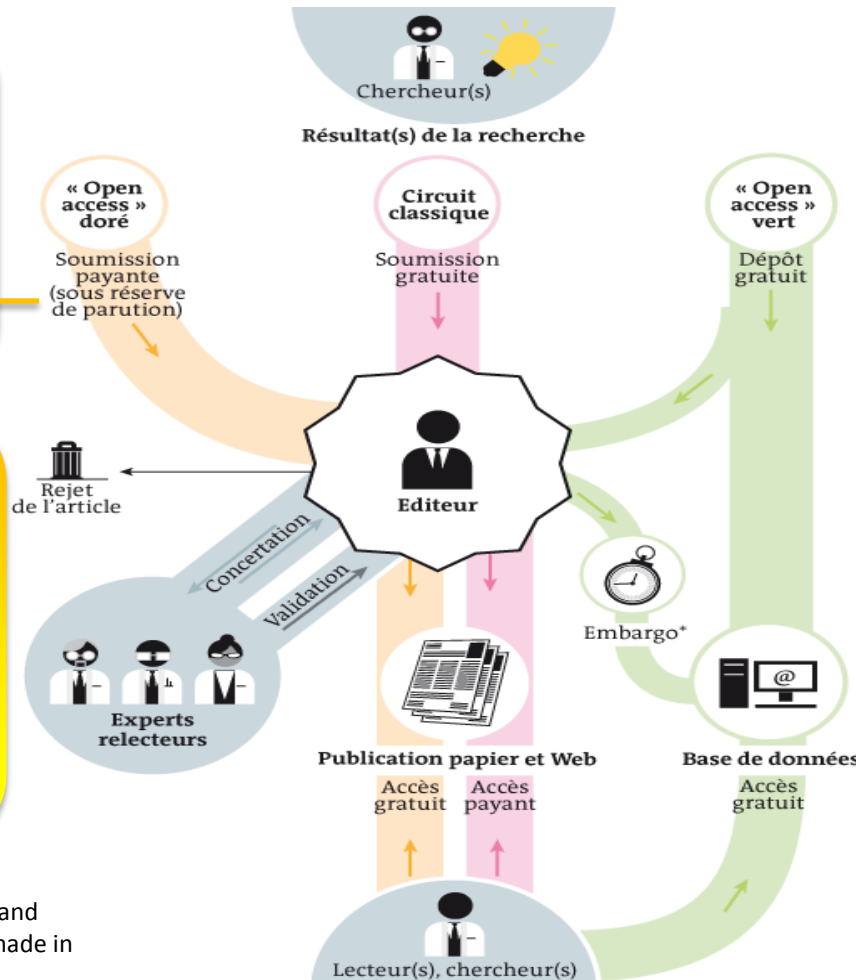
### Original Gold OA :

Gold OA is free for the author and content access is free for the reader : OA journals without APC have direct or indirect subsidies from institutions like universities, laboratories, research centers, libraries, hospitals, museums, learned societies, foundations, or government agencies.

[Directory of Open Access Journals](#)

[Revue.org](http://Revue.org)

Watch : [Papiers Dorés](#) / Gabriel Benet and François Maginiot, documentary film made in April 2015



\* Temps au terme duquel l'éditeur accepte la lecture gratuite.

INFOGRAPHIE LE MONDE

**Green OA :**  
documents filed in open archives such as [HAL](#) or [arXiv](#)

### [Episciences.org](#) :

Digital publishing platform where articles come from papers filed in open archives such as [HAL](#) or [arXiv](#), and not published elsewhere.

These “epijournals” add value to open archives by providing the scientific caution of an editorial board to the validated papers.

Read also : [La France préfère payer deux fois pour les articles de ses chercheurs](#) / Pierre-Carl Langlais and Rayna Stamboliyska published in Rue89 on 10/11/2014

## ■ 2.1. What types of document can you file ?

### ● Documents

- Preprints
- Working papers
- Reports

### ● Publications

- Journal articles
- Conference papers
- Poster communications
- Books
- Book sections
- Direction of work or proceedings
- Patents
- Other publications

### ● Academic Works

- Theses
- HDR
- Lectures

### ● Research data

- Photos
- Videos
- Audio
- Maps

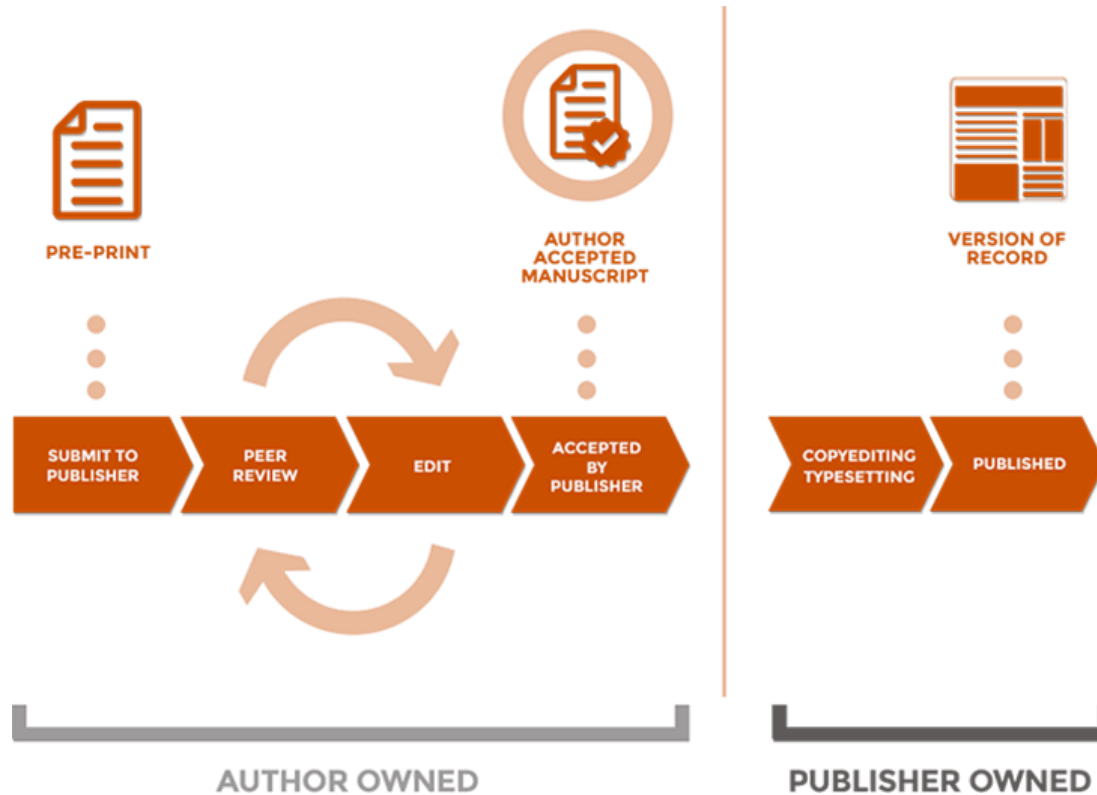


BEFORE you file your document :

- Make sure the document is not confidential
- Make sure your co-authors agree with it

# 2-Copyrights

## 2.2. Publications : what versions are you allowed to file ?



### Before publication

You hold the copyrights on your document : you can file the pre –print version of your document in all cases

### After publication

Versions authorized for filing vary depending on publishers. They state their position in dedicated repositories :

- [SHERPA/RoMEO](#) : English publishers copyright policies
- [Héloïse](#) : French publishers copyright policies

## 2.3. Post-print / Publisher's version / PDF

Post-print = author accepted manuscript

VOR = Publisher's version / PDF



Response of a two-dimensional liquid foam to air injection: influence of surfactants, critical velocities and branched fracture

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*Institut de Physique de Rennes, UMR 6251 CNRS/Université de Rennes 1, Campus Beaulieu, Bâtiment 11A, 35042 Rennes Cedex, France*

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**Abstract**

Experiments where air is injected into a foam confined in a Hele-Shaw cell are convenient to study the rheology of foams far from the quasistatic regime, and their limit of stability. At low overpressure, the injected air forms a ductile crack, whereas at high overpressure, it breaks the foam like a brittle material. We present new results in this configuration, complementary with previous studies. We show that air injection is slowed down for surfactants giving incompressible interfaces instead of mobile ones. The injection rate is quantitatively captured by a simple model balancing the air overpressure with known foam/wall friction laws for incompressible interfaces. We also revisit the critical velocity criteria for the injected air proposed by Arif et al. [1]. The upper bound of velocity in the ductile regime, based on the resistance of soap films against wall friction, is shown to hold much better for mobile than for incompressible interfaces. The propagation speed of shear waves is confirmed to be a good lower bound for the velocity in the brittle regime, provided the motion of all liquid within the foam is accounted for. Finally, a short description of branching in the fragile regime is given.

**Keywords:** liquid foam, air injection, foam/wall friction, ductile, fragile, branching



Colloids and Surfaces A: Physicochem. Eng. Aspects 438 (2013) 41–46

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Colloids and Surfaces A: Physicochemical and Engineering Aspects

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Response of a two-dimensional liquid foam to air injection: Influence of surfactants, critical velocities and branched fracture

Imen Ben Salem, Isabelle Cantat, Benjamin Dollet\*

*Institut de Physique de Rennes, UMR 6251 CNRS/Université de Rennes 1, Campus Beaulieu, Bâtiment 11A, 35042 Rennes Cedex, France*

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**HIGHLIGHTS**

- We present new results in the configuration where foams in a Hele-Shaw cell are subjected to air injection.
- We show that air injection is slowed down with surfactants giving incompressible interfaces instead of mobile ones.
- The injection rate is captured by a model balancing the air overpressure with known foam/wall friction laws.
- We revisit critical velocity criteria of the injected air.
- A short description of branching in the fragile regime is given.

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**Keywords:**  
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 Ductile  
 Fragile  
 Branching

**ABSTRACT**

Experiments where air is injected into a foam confined in a Hele-Shaw cell are convenient to study the rheology of foams far from the quasistatic regime, and their limit of stability. At low overpressure, the injected air forms a ductile crack, whereas at high overpressure, it breaks the foam like a brittle material. We present new results in this configuration, complementary with previous studies. We show that air injection is slowed down for surfactants giving incompressible interfaces instead of mobile ones. The injection rate is quantitatively captured by a simple model balancing the air overpressure with known foam/wall friction laws for incompressible interfaces. We also revisit the critical velocity criteria for the injected air proposed by Arif et al. [1]. The upper bound of velocity in the ductile regime, based on the resistance of soap films against wall friction, is shown to hold much better for mobile than for incompressible interfaces. The propagation speed of shear waves is confirmed to be a good lower bound for the velocity in the brittle regime, provided the motion of all liquid within the foam is accounted for. Finally, a short description of branching in the fragile regime is given.

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**1. Introduction**

Liquid foams are a typical example of complex fluids: they can exhibit elastic, plastic or viscous response, depending on the external forcing [2]. Understanding this intricate macroscopic behaviour in relation with considerations at the scale of single bubbles and films motivates active research [3–5], with open questions on e.g. shear localisation [6] or nonlocal effects [7]. Still, even if viscous effects are significant at the macroscopic scale, most of these studies remain in a quasistatic regime for the local structure; that is, deviations from the equilibrium rules for the films network (the so-called Plateau rules) remain negligible. However, it is a question of absorption associated to blast wave mitigation by aqueous foams [8–10], and to study flows of soap films at high velocity [11,12]. A good setup to study rheology of foams far from quasistatics consists of injecting air into a foam confined in a Hele-Shaw cell. Initially motivated by pattern formation [13,14], this configuration was shown by Hilgenfeldt and coworkers to be ideal to study the limit of stability of a flowing foam [1,15]. They showed that the injected air can propagate either in a ductile regime, pushing bubbles apart by plastic rearrangements without bursting; or in a fragile regime, breaking series of soap films to form narrow cracks, like fractures in brittle materials [16]. Most interestingly, they showed that the propagation velocity of the advancing front of

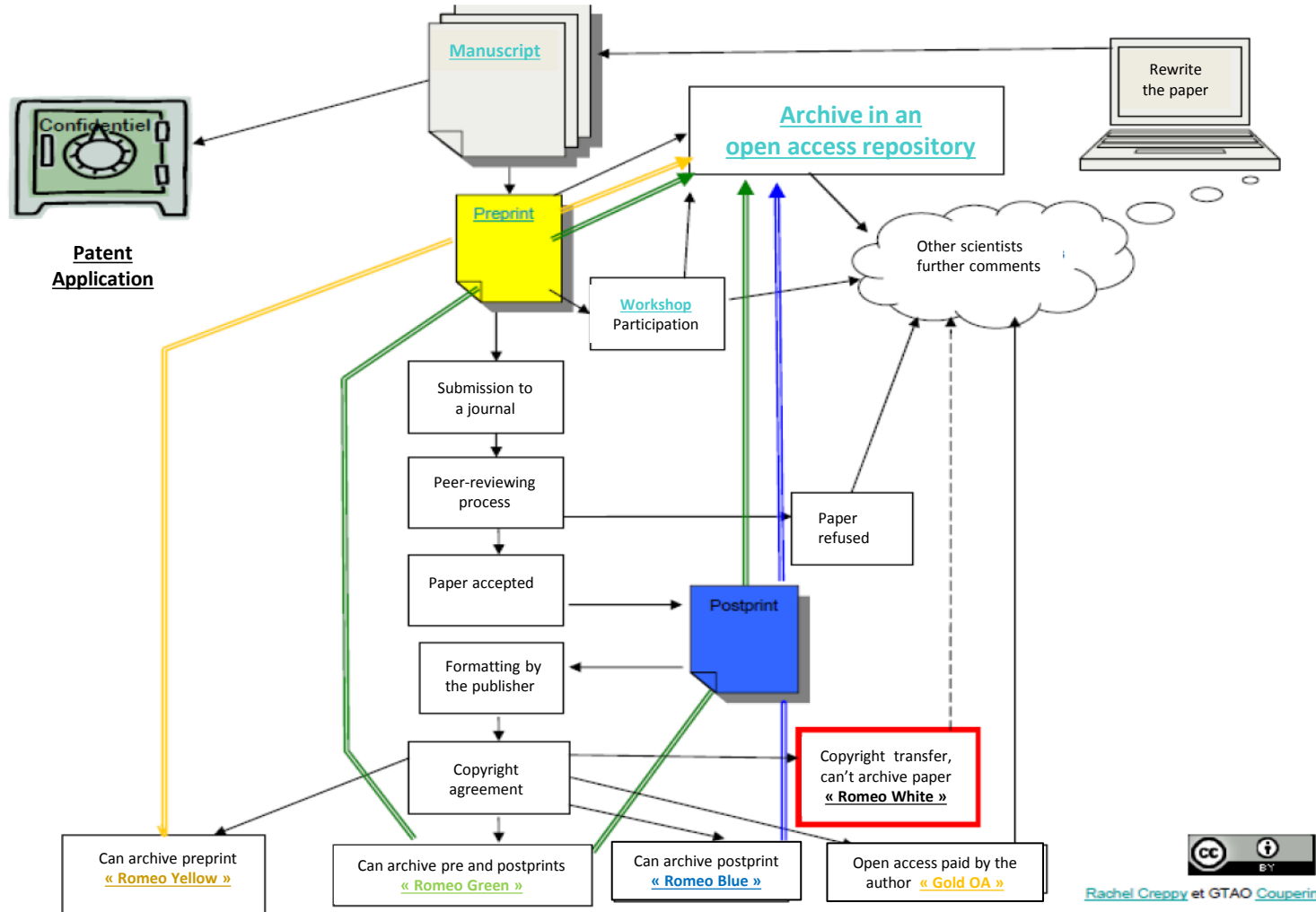


## ■ 2.4. SHERPA RoMEOcolours

- **Pre-print** version : first draft of the article, before peer-review
- **Post-print** : version of the paper after peer-review, with revisions having been made.
- **Publisher's version / PDF** : published article with publisher's type-setting and formatting (subject to a possible embargo)

RoMEO Colour	Archiving policy
Green	Can archive pre-print and post-print or publisher's version/PDF
Blue	Can archive post-print or publisher's version/PDF
Yellow	Can archive pre-print
White	Archiving not formally supported / Unknown policy

## 2.5. To summarize



## ■ 2.6. CNRS recommandations

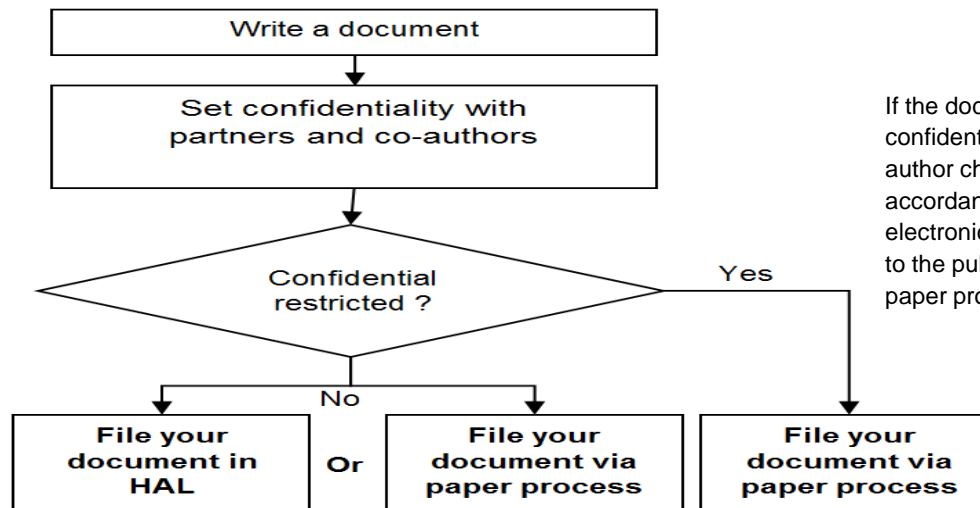
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- Contracts that you have received from publishers are very important : read them carefully before signing the copyright agreements.
- If necessary, do not hesitate to negotiate the possibility to file your publication on open archives

Read : [Je publie, quels sont mes droits](#)

## ■ 3.1. Electronic process / paper process

Source : Procédure Accueil et Valorisation (05/06/2015) : <https://www.laas.fr/qualite/content/proc%C3%A9dures-0>

- Any scientific or technical document must be transmitted to the IST service once finalized
- Two approaches are possible :
  - electronic process : filing directly via HAL:  
<http://hal.archives-ouvertes.fr/>
  - paper process : deposit slip



If the document is not confidential or restricted, the author chooses the process in accordance with the co-authors : electronic process (HAL) subject to the publisher's agreement or paper process (deposit slip)

# 3-How to file a document at LAAS

- 3.2 . How to file your LAAS thesis on HAL
  - Bring the final manuscript of your thesis on a USB key with a single PDF file to the IST service or drag the file to an accessible space or send the file by email to doc@laas.fr, paged version for front / back printing .
  - The IST service assigns a LAAS report number to your thesis and then gives you copies of the manuscript as well as the “dossier de soutenance” which is mandatory for your diploma to be issued. The manuscript is then printed and you will receive 15 copies.
  - A librarian files the thesis on HAL.

Read : [Formalités à accomplir auprès du service IST](#)

## ■ 3.3. How to sign your papers

**LAAS- CNRS , Université deToulouse , CNRS, ( institution of co-authors if different from CNRS), Toulouse, France**

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***LAAS-CNRS, Université de Toulouse, CNRS, INSA, UPS, Toulouse, France***



- If in the list of authors there is no researcher-professor, we will have that kind of signature :

***LAAS-CNRS, Université de Toulouse, CNRS, Toulouse, France***

Read : [Note de direction du 2 mars 2016 sur les modalités de signature des publications](#)

# 4-What is HAL

## ■ 4.1. HAL Features

- Created by the [CCSD](#) in 2001 (CNRS, INRIA, Lyon University)
- French multidisciplinary open archive
- International visibility (links with [arXiv](#))
- Other services / platforms by CCSD with links to HAL :
  - [Episciences.org](#) 
  - [Sciencesconf.org](#) 

## ■ 4.2 . some figures

- Full text : around **360 000**
- Deposits / month : around 2800
- Referenced authors : around 600 000
- HAL portals : 110
- HAL Collections : + 2500

# 4-What is HAL

- 4.3. Why you should file your papers in HAL
  - To **expand the visibility** of your scientific work
  - To increase the **scientific impact** of your work
  - A **single entry** for your activity reports , CVs, ...
  - To provide **legal protection** to your work
  - To ensure the **sustainability of the files and access\***
  - To ensure **free and open access to research results funded by public funds\*\*** and \*\*\*



- \* Archiving provided by the National Computing Centre for Higher Education ([CINES](#))
- \*\* [Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020](#)
- \*\*\* [CPU-CNRS press release from January 21st 2016](#) and [French Digital Republic law project](#)



## 4.4. HAL-LAAS










LAAS-CNRS  
Laboratory for Analysis and Architecture of Systems



- Home
- LAAS Presentation
- LAAS collections
- Browse ▾
- Search
- Publishers copyright policies ▾
- Submit
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Home

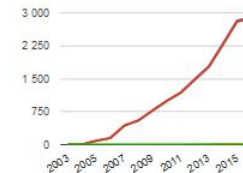
### LAST SUBMISSIONS

- 
 Quynh Anh Do Hoang, Jérémie Guiochet, David Powell, Mohamed Kaaniche. Human-robot interactions: model-based risk analysis and safety case construction. Embedded Real Time Software and Systems (ERTS2 2012), Feb 2012, Toulouse, France. Proc. <hal-01282240>
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 Andrea Del Prete, Steve Tonneau, Nicolas Mansard. Fast Algorithms to Test Robust Static Equilibrium for Legged Robots. IEEE International Conference on Robotics and Automation (ICRA), May 2016, Stockholm, Sweden. <hal-01201060v2>

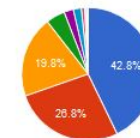
### NUMBER OF FULLTEXT

2 883

### SUBMISSIONS EVOLUTION



### SUBMISSIONS DISTRIBUTION BY DOCUMENT TYPE



# 4-The LAAS collections

- 4.5. Thesis and HDR collection

<https://hal.archives-ouvertes.fr/LAAS-TEL>

- 4.6. Departments and team collections

<https://hal.archives-ouvertes.fr/LAAS-INFORMATIQUE-CRITIQUE>

<https://hal.archives-ouvertes.fr/LAAS-RESEAUX-ET-COMMUNICATIONS>

<https://hal.archives-ouvertes.fr/LAAS-ROBOTIQUE>

<https://hal.archives-ouvertes.fr/LAAS-DECISION-ET-OPTIMISATION>

<https://hal.archives-ouvertes.fr/LAAS-GESTION-DE-L-ENERGIE>

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<https://hal.archives-ouvertes.fr/LAAS-HYPERFREQUENCES-ET-OPTIQUE>

<https://hal.archives-ouvertes.fr/LAAS-NANO-INGENIERIE-ET-INTEGRATION>

- 4.7. Technical services collections

<https://hal.archives-ouvertes.fr/LAAS-IDEA>

<https://hal.archives-ouvertes.fr/LAAS-I2C>

<https://hal.archives-ouvertes.fr/LAAS-TEAM>

- 4.8. Conferences collections

<https://hal.archives-ouvertes.fr/EWDC2009>

<https://hal.archives-ouvertes.fr/SAFECOMP2013>

<https://hal.archives-ouvertes.fr/CARS2015/>

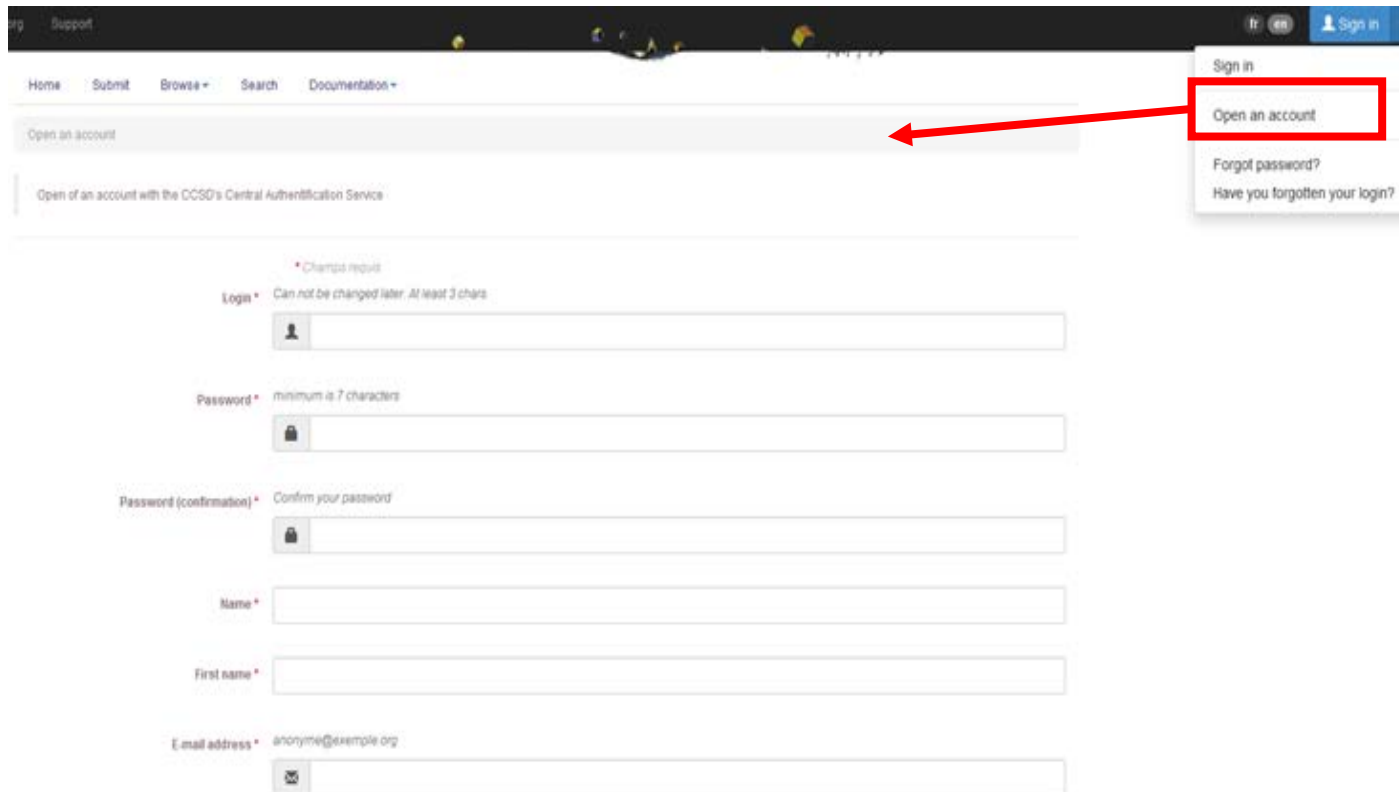
# 5-How to file a document in HAL

You have to follow several steps to file a document :

- Identification
- 5.1. Select the type of document
- 5.2. Upload the file(s)
- 5.3. Complete common metadata
- 5.4. Complete author(s) metadata
- 5.5. Summary
- 5.6. HAL record and CCSD validation

## ■ Identification

- Go to HAL : <https://hal.archives-ouvertes.fr>
- Sign in or open an account :

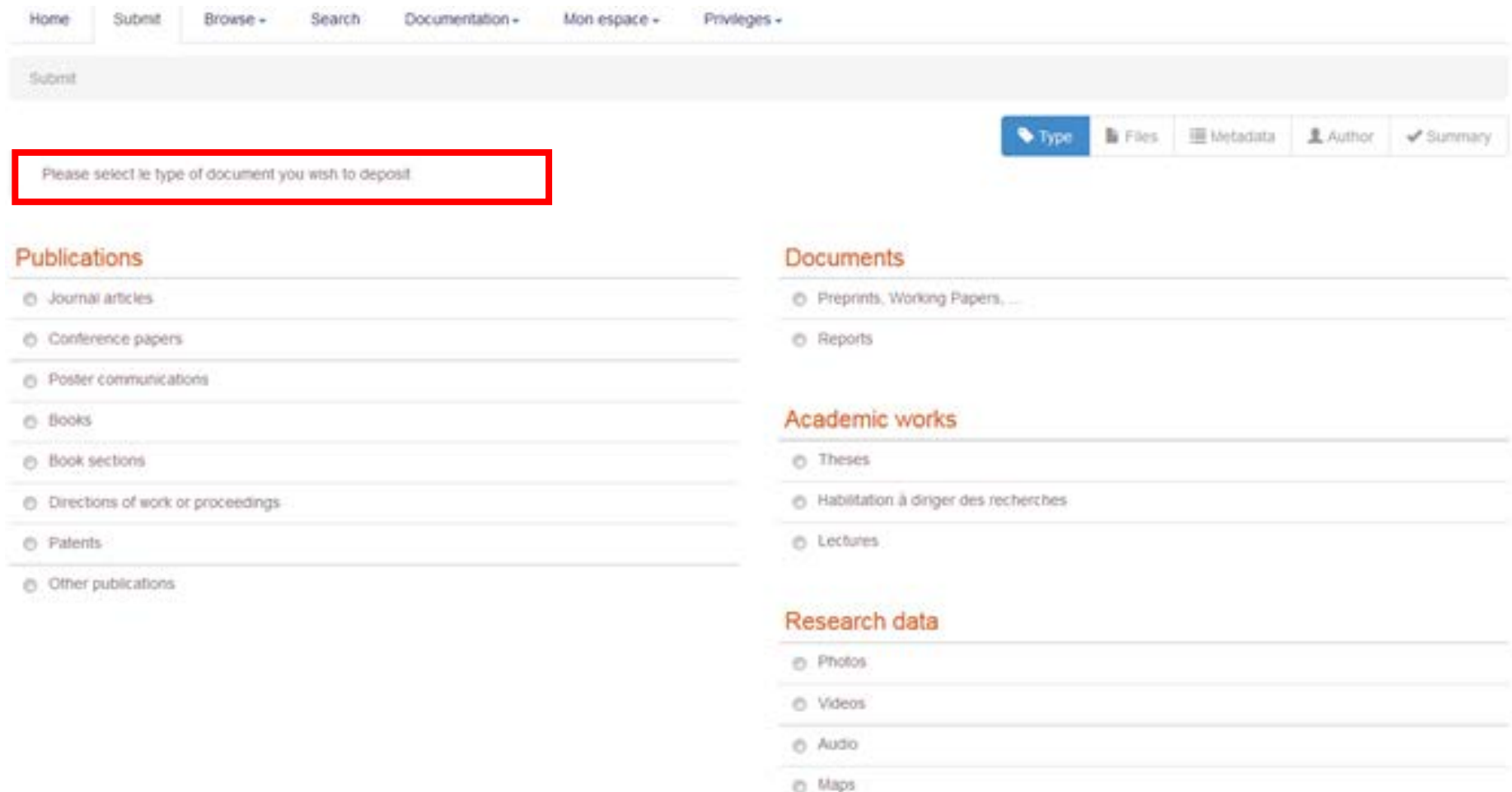


The screenshot shows the HAL website interface. At the top right, there is a 'Sign in' button. Below it, a dropdown menu is visible with the following options: 'Sign in', 'Open an account' (highlighted with a red box), 'Forgot password?', and 'Have you forgotten your login?'. A red arrow points from the 'Open an account' link in the dropdown to the 'Open an account' button on the main page.

The main page features a navigation bar with links: Home, Submit, Browse+, Search, and Documentation+. Below the navigation bar, there is a section titled 'Open an account' with a sub-heading 'Open an account with the CCSD's Central Authentication Service'. The form includes the following fields:

- Login\***: A text input field with a person icon. A note above it says 'Champs requis' and 'Can not be changed later. At least 3 chars'.
- Password\***: A password input field with a lock icon. A note above it says 'minimum is 7 characters'.
- Password (confirmation)\***: A confirmation password input field with a lock icon. A note above it says 'Confirm your password'.
- Name\***: A text input field.
- First name\***: A text input field.
- E-mail address\***: A text input field with a placeholder email 'anonyme@example.org' and a lock icon.

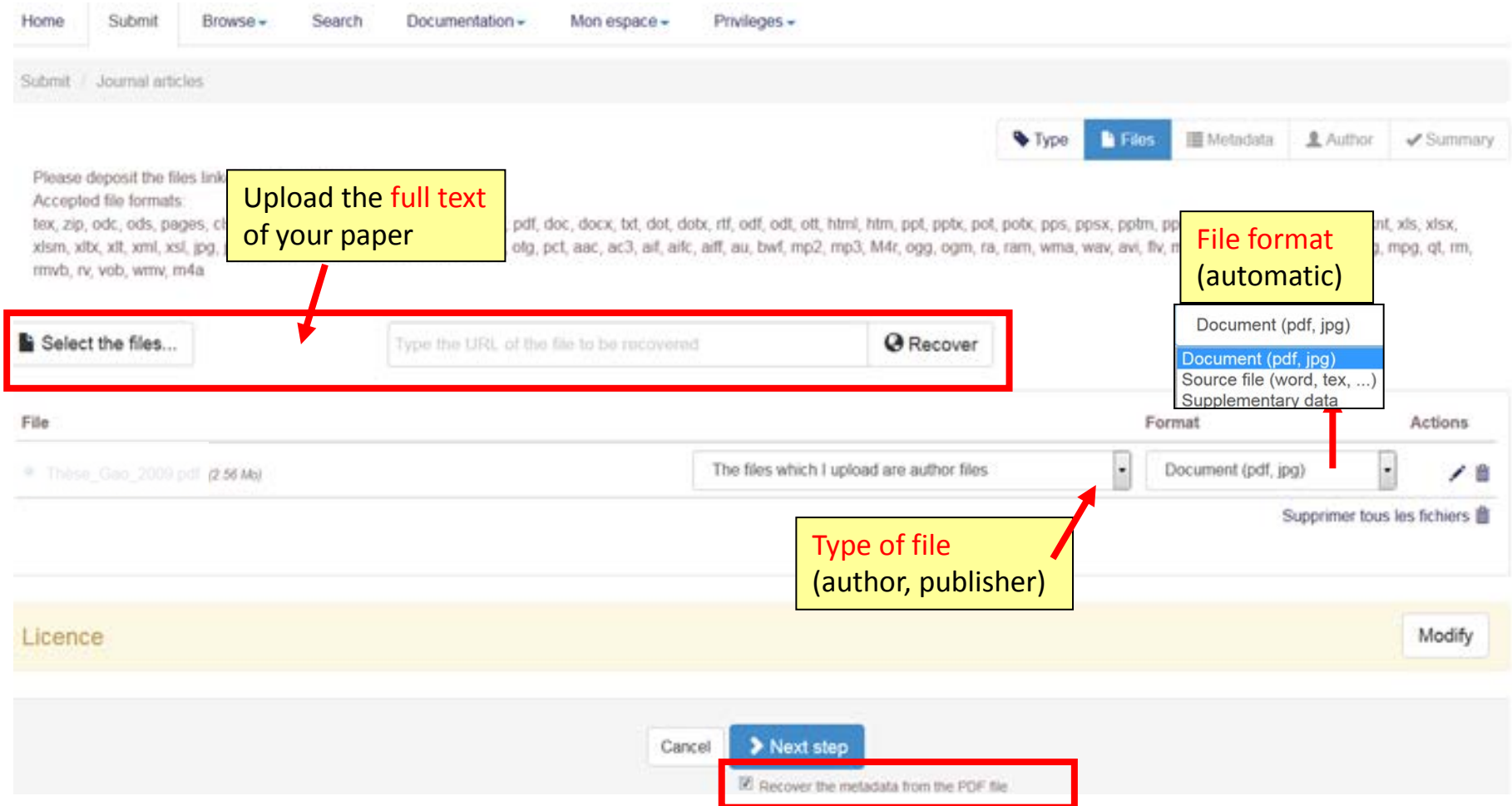
## 5.1. Select the type of document



The screenshot shows the HAL submission interface. At the top, there is a navigation bar with links: Home, Submit, Browse +, Search, Documentation +, Mon espace +, and Privilèges +. Below this is a 'Submit' button. A red box highlights a message: 'Please select le type of document you wish to deposit'. To the right of this message are several tabs: Type (selected), Files, Metadata, Author, and Summary. The main content area is divided into three columns of document types, each with a radio button for selection:

- Publications**
  - Journal articles
  - Conference papers
  - Poster communications
  - Books
  - Book sections
  - Directions of work or proceedings
  - Patents
  - Other publications
- Documents**
  - Preprints, Working Papers, ...
  - Reports
- Academic works**
  - Theses
  - Habilitation à diriger des recherches
  - Lectures
- Research data**
  - Photos
  - Videos
  - Audio
  - Maps

## 5.2. Upload the file



The screenshot shows the HAL upload interface. At the top, there are navigation tabs: Home, Submit, Browse, Search, Documentation, Mon espace, and Privileges. Below this, there's a breadcrumb trail: Submit / Journal articles. A toolbar contains icons for Type, Files, Metadata, Author, and Summary. A text area on the left says "Please deposit the files link" and lists "Accepted file formats: tex, zip, odc, ods, pages, ci, xism, xtb, xlt, xml, xsl, jpg, r, mmb, rv, vob, wmv, m4a".

Annotations include:

- A yellow box with the text "Upload the full text of your paper" pointing to the "Select the files..." button.
- A yellow box with the text "File format (automatic)" pointing to a dropdown menu showing options: Document (pdf, jpg), Document (pdf, jpg), Source file (word, tex, ...), and Supplementary data.
- A yellow box with the text "Type of file (author, publisher)" pointing to a dropdown menu showing "The files which I upload are author files".
- A red box around the "Recover" button at the bottom of the interface.

The main interface shows a file upload area with a table containing one entry: "These\_Gao\_2009.pdf (2.56 Mb)". The table has columns for File, Format, and Actions. The Format column shows "Document (pdf, jpg)". The Actions column has a trash icon and the text "Supprimer tous les fichiers". Below the table is a "Licence" section with a "Modify" button. At the bottom, there are "Cancel" and "Next step" buttons, and a checkbox labeled "Recover the metadata from the PDF file" which is checked.

## 5.2. Upload the file : date of visibility



Please deposit the files linked with your deposit

Accepted file formats:

tex, zip, odc, eds, pages, dta, dlo, stj, bcl, bib, bbl, tex, kdx, aac, def, pdf, doc, docx, tcl, dot, docb, rtf, e-of, odt, otf, htm, htm, ppt, pptx, pot, potx, pps, ppsx, pshtm, pshtm, ps, eps, odf, ods, key, font, xls, excel, xlsx, xls, xl, xml, xsl, jpg, jpeg, jpe, jps, png, gif, tif, tiff, ma3d, odg, oig, pot, aac, ac3, aif, aifc, aiff, au, twf, mp2, mp3, M4c, egg, ogm, ra, ram, wma, wav, avi, flv, mov, movie, mp4, mpe, mpeg, mpg, qt, rm, rmvb, rv, vob, wmv, m4a



File	Format	Actions
<p>Thèse_Gao_2009.pdf (1 of 1)</p> <p>The files which I upload are author files</p> <p>Document (pdf, jpg)</p>		
<p>Visibility</p> <p>embargo_now (2015-03-30)</p> <p>embargo_now (2015-03-30)</p> <p>embargo_15-d (2015-04-14)</p> <p>embargo_1-M (2015-04-30)</p> <p>embargo_3-M (2015-06-30)</p> <p>embargo_6-M (2015-09-30)</p> <p>embargo_1-Y (2016-03-30)</p> <p>embargo_date</p> <p>embargo_2-Y (2017-03-30)</p>		

**Date : current day by default**

## 5.2. Upload the file : embargo

Type Files Metadata Author Summary

Please deposit the files linked with your deposit

Accepted file formats:

tex, zip, odc, ods, pages, cls, clo, sty, bst, bib, bbl, toc, idx, aux, def, pdf, doc, docx, txt, dot, dobx, rtf, odf, odt, ott, html, htm, ppt, ppbx, pot, pobx, pps, ppsx, pptm, ppsm, ps, eps, odp, ots, key, knt, xls, xlsx, xslm, xlsx, xlt, xml, xsl, jpeg, jpe, jps, png, gif, tif, tiff, ms3d, odg, otg, pct, aac, ac3, aif, aifc, aiff, au, bwf, mp2, mp3, M4r, ogg, ogm, ra, ram, wma, wav, avi, flv, mov, movie, mp4, mpe, mpeg, mpg, qt, rm, rmvb, rv, vob, wmv, m4a

Select the files... Type the URL of the file to be recovered Recover

Actual date of posting on HAL

File: HAL TEST.pdf (23.82 Ko) Format: Document (pdf, jpeg) Actions: [edit] [trash]

The files which I upload are author files

Visibility: embargo\_date

Date of visibility: [calendar]

Comment: [text area]

Licence: [dropdown]

Cancel Next step

Recover the metadata from the PDF file

You can set up an embargo to delay the posting of your paper on line if the editor requires it or if you wish to have your paper published :

- from a specific date
- or between 15 days and 2 years from the upload date

Visibility	embargo_date
Date of visibility	embargo_now (2015-04-03)
	embargo_15-d (2015-04-18)
	embargo_1-M (2015-05-03)
	embargo_3-M (2015-07-03)
	embargo_6-M (2015-10-03)
	embargo_1-Y (2016-04-03)
	embargo_date
	embargo_2-Y (2017-04-03)



## 5.2. Upload the file : CC Licence



### Author files

The files which I upload are author files

### Publisher files

I have checked that this editor belongs to those which authorize the submission of the "files editor" on an open archive  
 I have obtained the explicit agreement of this editor for this particular submission  
 My institution has paid the publication costs for this article to be in open access

### Licence

- Attribution  
- Attribution - NonCommercial   
- Attribution - NoDerivatives   
- Attribution - ShareAlike   
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2. You must hold the copyrights on your paper
3. It has to be a paper that you do not plan to publish

## 5.3. Complete common metadata



Identifiers

Add the DOI or the identifiers of from *arXiv*, *PubMed* or *ADS* for this deposit

10.1016/j.anbehav.2013.10.019

25267469

Click on +  
then on ↻

Reload metadata

DOI ↕ ↻ 🗑️

Pubmed Id ↕ +

Add this identifier

Domain \*

The first domain you put will be considered the main subject of the article. The order of the domains can be changed by drag and drop.

Ajouter un domaine

\* Indicates that the information is mandatory

Title \*

You can enter the title in several languages : select the language and click + to add a new language

Abstract \*

You can enter the abstract in several languages : select the language and click + to add a new language

Keywords \*

You can enter the keywords in several languages : select the language and click + to add a keyword in the selected language. The characters "," (comma) and ";" (semicolon) can be used to separate a list of keywords.

Journal \*

🟢 Animal Behaviour (ISSN : 0003-3472, ESN : 1095-8282)  
 — Published by Elsevier Masson  
 — SHERPA/RoMEO : green Can archive pre-print and post-print or publisher's version/PDF

The list of the journals referenced in HAL appears on the input, with the publisher's archiving policy on open access repositories

## 5.3. Complete common metadata

Type
Files
**Metadata**
Author
Summary

Funding agency *Sources of funding related to this research paper*

Some funding agencies require you to file in an open archive publications resulting from research they have funded. This is the case for the **Horizon 2020** program.

ANR project(s) *Indicate the ANR /European projects related to this research paper*

European project(s)

Pulm

*Nouveau...*

- Interactions des nanoparticules avec d
- PULMONANO - ref :ANR-12-CHEX-0011 Chaires d
- Cellules mésothéliales et fibrose pulmonaire idiopathique
- meso-IPF - ref :ANR-11-BSV1-0011 BLANC BLANC
- Fibroblastes et Fibrogénèse pulmonaire
- FIBROPNEUMO - ref :ANR-06-PHYS-0011 Physiopathologie des maladies humaines (Physio) PHYSIO
- Fibroblastes et Fibrogénèse pulmonaire
- FIBROPNEUMO - ref :ANR-06-PHYSIO-0011 Physiopathologie des maladies humaines (Physio) PHYSIO
- Conséquences toxicologiques de l'exposition pulmonaire aux nanoparticules biodégradables
- NANOBIOTOS - ref :ANR-09-CESA-0011 Contaminants, Ecosystèmes et Santé CESA

A list of **ANR and European projects** referenced in HAL appears on the input. Check also [AURéHAL](#)

**Read :** [Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020](#)

## 5.4. Complete author(s) metadata

Type Files Metadata **Author** Summary

Nicolas Perrin <sup>1,2</sup>, Olivier Stasse <sup>2</sup>, Florent Lamiraux <sup>2</sup>, Eiichi Yoshida <sup>3</sup>

Add an author or integrate ▾

- 1 *ISIR - Institut des Systèmes Intelligents et de Robotique* 🗑️
- 2 *LAAS-GEPETTO - Équipe Mouvement des Systèmes Anthropomorphes* 🗑️
- 3 *JRL France - Joint Robotics Laboratory AIST & CNRS (France)* 🗑️

All the authors are entered in the order shown in the publication.

Florent Lamiraux <sup>2</sup> ✎ 🏠 🗑️

Affiliation is indicated on the publication. By default, the last affiliation mentioned in a previous deposit is proposed. It may be supplemented if necessary : for LAAS, we recommend that you **mention your research team**, such as LAAS-GEPETTO for instance. Then your deposit will automatically be visible in the collection of your team.

**Florent Lamiraux**

- Institut des Systèmes Intelligents et de Robotique [ISIR]  
 Université Pierre et Marie Curie - Paris 6 ; CNRS : UMR7222
- Équipe Mouvement des Systèmes Anthropomorphes [LAAS-GEPETTO]  
 Laboratoire d'analyse et d'architecture des systèmes [Toulouse] ; Institut National des Sciences Appliquées - Toulouse ; Institut National des Sciences Appliquées ; Institut National Polytechnique Toulouse ; Université Paul Sabatier - Toulouse 3 ; CNRS : UPR8001
- Joint Robotics Laboratory AIST & CNRS (France) [JRL France]  
 National Institute of Advanced Industrial Science and Technology ; CNRS : UMI3218

Ajouter une structure

## 5.4. Complete author(s) metadata

Type Files Metadata **Author** Summary

Nicolas Perrin <sup>1,2</sup>, Olivier Stasse <sup>1,2</sup>, Florent Lamiroux <sup>1,2</sup>, Eiichi Yoshida <sup>3</sup>

Add an author or integrate

1 ISIR - Institut des Systèmes Intelligents et de Robotique

2 LAAS-GEPETTO - Équipe Mouvement des Systèmes Anthropomorphes

3 JRL France - Joint Robotics Laboratory AIST & CNRS (France)

a list of authors

the authors from a research organization

from « my authors »

**Add a list of authors**

Liste d'auteurs \*

Forme \*

Séparateur \*

Rechercher la dernière affiliation de chaque auteur \*

Add

**Add the authors from a search structure**

Rechercher une structure

UMI CNRS-IMPA UCI

CNRS : UMI2924 ; Institut National de Mathématiques Pures

Claudio Landim

Jorge Zubelli

Jorge Zubelli

Pedro Maia

Vladas Sidoravicius

Add the selected authors

**Add from my authors**

Catia Cate

Dalila Pinto

Daniele Merico

De Jonge

Dombroski

Eftichia Duketis

Elena Bacchelli

Elena Maestrini

Add the selected authors

Enables you to associate all the authors mentioned in the paper to this author

## 5.4. Complete author(s) metadata



Nicolas Perrin <sup>1,2</sup>, Olivier Stasse <sup>1,2</sup>, Florent Lamiroux <sup>1,2</sup>, Eiichi Yoshida <sup>3</sup>

Add an author or integrate

new ✕

*\* Champs requis*

Name \*

First name \*

Autre(s) prénom(s), Initiales

Email

URL page perso

Etablissement d'appartenance

Fonction

- Author

  - Correspondent author
  - Speaker
  - Editor
  - Scientific advisor
  - Contributor
  - Writer of accompanying material
  - Photographer
  - Annotator
  - Translator
  - Commentator
  - Illustrator
  - Stage manager
  - Producer
  - Artistic director
  - Sound designer
  - Cartographer
  - Other

For new authors, if the name does not appear in the list, it means that it has not yet been entered in HAL, so you must then create it by filling in at least the last name and first name: we recommended that you **write the entire first name and not just the initial!**

## 5.5. Summary

Type
Files
Metadata
Author
✓ Summary

Submission Type	File
Type of document	Journal articles
Title	en Humanoid motion generation and swept volumes: theoretical bounds for safe steps
Authors	Nicolas Perrin <sup>1, 2</sup> , Olivier Stasse <sup>2</sup> , Florent Lamiraux <sup>2</sup> , Eiichi Yoshida <sup>3</sup>
	<ol style="list-style-type: none"> <li>1 ISIR - Institut des Systèmes Intelligents et de Robotique - Université Pierre et Marie Curie - Paris 6 ; CNRS : UMR7222</li> <li>2 LAAS-GEPETTO - Équipe Mouvement des Systèmes Anthropomorphes - Laboratoire d'analyse et d'architecture des systèmes [Toulouse] ; Institut National des Sciences Appliquées - Toulouse ; Institut National des Sciences Appliquées ; Institut National Polytechnique de Toulouse ; Université Paul Sabatier - Toulouse 3 ; CNRS : UPR8001</li> <li>3 JRL France - Joint Robotics Laboratory AIST &amp; CNRS (France) - National Institute of Advanced Industrial Science and Technology ; CNRS : UMI3218</li> </ol>
Abstract	en In the context of humanoid robot footstep planning based on a continuous action set, we conduct an analysis of the sensitivity of a walking pattern generator. Given a variat of an input vector, we calculate a bound on the variation of the volume swept by the robot lower body during the corresponding actions (steps). Since the input vector depen on real parameters, there is an infinite number of possible steps, but the calculated bound permits a sound and safe use of only a finite number of swept volumes to acco for all the possible motions. After numerical evaluations, we discuss potential applications.
doi	10.1080/01691864.2013.805468
Domain	Computer Science/Robotics
Fulltext language	English
Journal	<p>Advanced Robotics (ISSN : 0169-1864, EISSN : 1568-5535)</p> <p>— Published by Taylor &amp; Francis: STM, Behavioural Science and Public Health T</p> <p>— SHERPA/RoMEO : yellow sherpa-yellow-desc</p>
Vulgarisation	No

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## 5.6. HAL reference

**LAAS-GEPETTO :  
Movement of Anthropomorphic Systems Researchteam**

Home | Présentation LAAS-GEPETTO | Accueil | Publications | Publications en prévision | Domaines | Search | Links | Privilèges

**hal-01113510, version 1** ← HAL single identifier

**Humanoid motion generation and swept volumes: theoretical bounds for safe steps**

Nicolas Perrin<sup>1, 2</sup>, Olivier Stasse<sup>2</sup>, Florent Lamiraux<sup>2</sup>, Eiichi Yoshida<sup>3</sup> [Details](#)

1 ISIR - Institut des Systèmes Intelligents et de Robotique  
2 LAAS-GEPETTO - Équipe Mouvement des Systèmes Anthropomorphes  
LAAS - Laboratoire d'analyse et d'architecture des systèmes (Toulouse)  
3 JRL France - Joint Robotics Laboratory AIST & CNRS (France)

**Abstract :** In the context of humanoid robot footstep planning based on a continuous action set, we conduct an analysis of the sensitivity of a walking pattern generator. Given a variation of an input vector, we calculate a bound on the variation of the volume swept by the robot lower body during the corresponding actions (steps). Since the input vector depends on real parameters, there is an infinite number of possible steps, but the calculated bound permits a sound and safe use of only a finite number of swept volumes to account for all the possible motions. After numerical evaluations, we discuss potential applications.

**Document type :** **Journal articles**  
Advanced Robotics, Taylor & Francis: STM, Behavioural Science and Public Health Titles, 2013, 27 (14), pp.1045 - 1058. <10.1080/1091864.2013.805468>

**Domain :**  
**Computer Science / Robotics**

Display the full list of metadata

https://hal.archives-ouvertes.fr/hal-01113510  
Contributor : Olivier Stasse <olivier.stasse@gmail.com>  
Submitted on : Thursday, February 8, 2015 - 4:28:42 PM  
Last modification on : Friday, March 27, 2015 - 10:45:56 AM

**FILE**  
swept\_volumes\_bounds\_perin.pdf  
fileSource\_public author

**IDENTIFIERS**  
+ HAL id : hal-01113510, version 1  
+ DOI : 10.1080/1091864.2013.805468

**COLLECTIONS**  
UFMC | LAAS | ISIR | LAAS-GEPETTO

**CITATION**  
Nicolas Perrin, Olivier Stasse, Florent Lamiraux, Eiichi Yoshida. Humanoid motion generation and swept volumes: theoretical bounds for safe steps. Advanced Robotics, Taylor & Francis: STM, Behavioural Science and Public Health Titles, 2013, 27 (14), pp.1045 - 1058. <10.1080/1091864.2013.805468>. <hal-01113510>

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BibTeX | XML | endnote

**Full text freely available**

**DOI : link to the article on the publisher's website**

**You can modify the metadata, submit a new version, add some annex files, etc.**

Modify | Add annex file | **Submit new version** | Historic










## 5.6. CCSD validation

Keep the email confirming the creation of the HAL reference. It contains information relating to the filing (including the password). You can modify / complete your deposits from your personal space.

My space / My deposits

Document identifier  Password

For the selected document ▾

-  Display
-  Add the file
-  Modify the metadata
-  Link the resource
-  Share property rights
-  Use as a template
-  Delete

The **shared ownership** with another person on HAL allows this person to visualize the deposit in "My Space / My Deposits" and to modify some metadata if necessary.

# 6-How to create your IdHAL

## ■ 6-1 What is an IdHAL

- The IdHAL is a unique identification managed by HAL. It allows any author, already referenced in HAL, to bring together the various forms in which her/his name has been entered (eg Marie Dupont, Dupont, Dupont-Marie Martin, etc.) and to choose one by default.
- The IdHAL is associated with the profile : the author form selected for the IdHAL will be proposed at the deposit if the profile box "author by default" is filled with "yes".
- The IdHAL brings together the various author forms but does not merge them.
- The list of the referenced authors is updated with the IdHAL for each author forms : check AURÉHAL  
<https://aurehal.archives-ouvertes.fr/author/index>
- The IdHAL is used to create your resume.

## 6.2. Example of an author reference in AURéHAL

### Accès Unifié aux Référentiels HAL

- Auteurs
- Structures
- Disciplines
- Revue
- Projets ANR
- Projets européens

### Consultation des formes auteurs

Ce module vous permet de consulter la liste des formes auteurs.

Rechercher

Voir ▾ Trier ▾ Afficher ▾

ind	idHAL	nom	prenom	email	ACTIONS
<span style="border: 1px solid #ccc; border-radius: 50%; padding: 2px 5px;">70673</span>	2918	Lamiroux	Florent	florent.lamiroux@laas.fr	
<span style="border: 1px solid #ccc; border-radius: 50%; padding: 2px 5px;">1148026</span>	2918	Lamiroux	Florent	florent.lamiroux@laas.fr	

Voir ▾ Trier ▾ Afficher ▾

## 6.3. Create your IdHAL

**Go to My space / My IdHAL**

**IdHAL : this field is mandatory.** By default, the names entered on your profile are implemented as follow : first name-last name. **Once registered, the IdHAL can not be changed : it is indeed used to compose the URL of your resume.**  
NB: some characters cannot be used such as the apostrophe, accents or space for example.

**Author forms associated with your IdHAL : HAL gives you a list of author forms that may correspond to you and which are not already associated with an existing IdHAL. Click on + to add those author forms to your IdHAL.**

My space / My IdHAL

Gather your author forms and create your IdHAL

**Identifiers**

**IdHAL \*** \* Champ requis  
Beware, you won't be able to change it once you've saved it

**Identifiants externes** Liez cet IdHAL à vos autres identifiants chercheurs

**Go to point 6.5.**

**Author forms associated with your IdHAL**

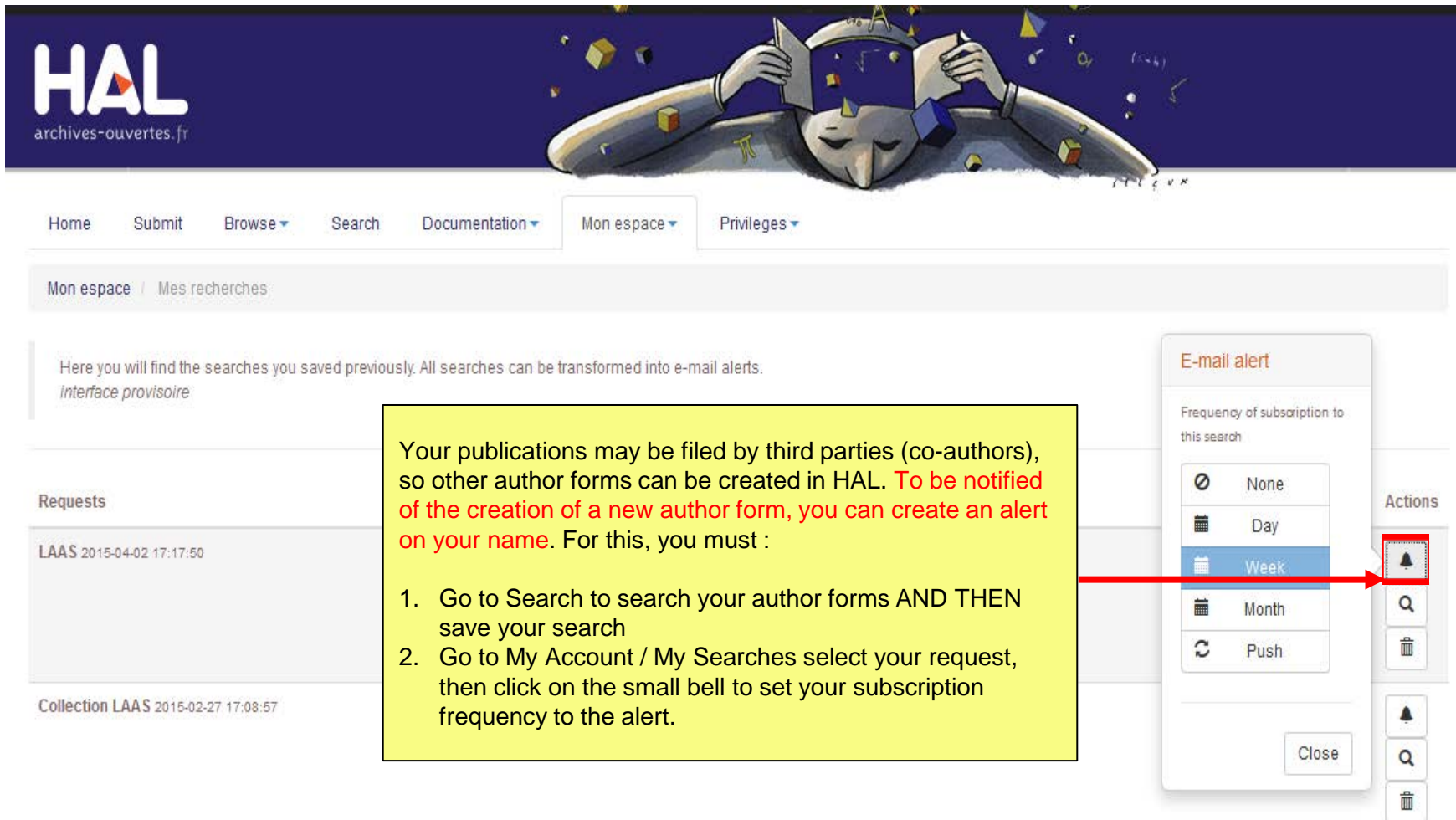
**Add author forms** Rechercher les formes auteurs

Authorid	Nom	Email	Etablissement d'appartenance	Actions
1012577	Laurence Hubler			<span style="border: 1px solid red; padding: 2px;">+</span>
173131	Hubler Brigitte Laurence	brigitte.hubler@laas.fr		<span style="border: 1px solid red; padding: 2px;">+</span>
83628	Hubler Laurence	laurence.hubler@laas.fr		<span style="border: 1px solid red; padding: 2px;">+</span>
629730	Hubler Brigitte Laurence	brigitte@laas.fr		<span style="border: 1px solid red; padding: 2px;">+</span>
624527	Hubler Laurence	laurence@laas.fr		<span style="border: 1px solid red; padding: 2px;">+</span>

Enregistrer

Check the list of documents associated with each author form by clicking on the icon.

## 6.4. Create alerts on your author profile page



**HAL**  
archives-ouvertes.fr

Home Submit Browse Search Documentation Mon espace Privileges

Mon espace / Mes recherches

Here you will find the searches you saved previously. All searches can be transformed into e-mail alerts.  
*Interface provisoire*

Requests

LAAS 2015-04-02 17:17:50

Collection LAAS 2015-02-27 17:08:57

Your publications may be filed by third parties (co-authors), so other author forms can be created in HAL. **To be notified of the creation of a new author form, you can create an alert on your name.** For this, you must :

1. Go to Search to search your author forms AND THEN save your search
2. Go to My Account / My Searches select your request, then click on the small bell to set your subscription frequency to the alert.







**E-mail alert**

Frequency of subscription to this search

- None
- Day
- Week
- Month
- Push

Close

Actions

- 
- 
- 
- 
- 
- 

# 6-How to create your IdHAL

## ■ 6.5. External identifiers

You can store the IDs that you have on other applications or add the URL of a blog:

- arXiv : the arXiv identifier is the username or author identifier you use for arXiv : [https://arxiv.org/help/author\\_identifier](https://arxiv.org/help/author_identifier)
- ResearcherID: ResearcherID is the identifier you've obtained after registering on the ResearcherID.com ThomsonReuters' platform.
- VIAF : Virtual International Authority File, a joint project from several national libraries, implemented and hosted by OCLC: <http://viaf.org/>
- ISNI : International Standard Name Identifier, standardized international code used to identify unequivocally in the long term and internationally, people and organizations : <http://www.isni.org/>. More to the FAQ available on the website of the BNF.
- ORCID: the identifier ORCID (Open Researcher and Contributor ID) is the identifier obtained after registration on the ORCID platform.
- IDREF: IDREF (Identifiers and List of references) is a web application developed and maintained by ABES (Bibliographic Agency for Higher Education). All author of a book, a thesis, a report cataloged in the Sudoc has an IDREF that can be found by querying the platform: <http://www.idref.fr/autorites/autorites.html>

# For further information...

## ■ HAL online tutorials :

- [Les archives ouvertes avec HAL, présentation de la V3](#), Juin 2014 / Bénédicte Kuntziger
- [Formation avancée HAL](#), Novembre 2014 / Bénédicte Kuntziger
- [Guide du déposant HAL UBO](#), Janvier 2015 / Catherine Bertignac
- [Déposer un article dans l'archive ouverte HAL-Rennes 1](#), Mars 2015 / Laurent Jonchère

## ■ HAL : <https://hal.archives-ouvertes.fr/>

- Submit : <https://hal.archives-ouvertes.fr/section/deposer>
- IdHAL : <https://hal.archives-ouvertes.fr/page/mon-idhal>
- AURÉHAL : <http://AURÉHAL.archives-ouvertes.fr/>
- Blog CCSD : <http://blog.ccsd.cnrs.fr>

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## ■ Open Access :

- AO Toulouse : <http://openarchiv.hypotheses.org/>
- Libre accès à l'IST, actualités, problématiques et perspectives : <http://openaccess.inist.fr/>
- Open Access : quel avenir pour la publication scientifique ? Stratégie des établissements, des Etats et de l'Union Européenne : <http://couperin.sciencesconf.org/>
- Open Access week : <http://www.openaccessweek.org/>