

# Bibliographical Research



With Zotero : <https://www.zotero.org/>

And

A shared OneDrive folder to put the documents [https://unice-my.sharepoint.com/:f:/g/personal/jean-yves\\_tigli\\_unice\\_fr/Ev86Jglqd7RIp3EiW83nNMUB2ZbihG6pgdDD5Y7aGvRI6A?e=XFdLBK](https://unice-my.sharepoint.com/:f:/g/personal/jean-yves_tigli_unice_fr/Ev86Jglqd7RIp3EiW83nNMUB2ZbihG6pgdDD5Y7aGvRI6A?e=XFdLBK)



# Tools for bibliography

- Digitals Libraries :
- [IEEE Xplore](#)
- [ACM Digital Library](#)
- Search Engines :  
[Web of Science](#)
- [Scopus](#)
- [CiteSeerx](#)
- [Google Scholar](#)
- Publishers :
- [Springer](#)
- Open archive :
- [Hyper Articles en Ligne \(HAL\)](#)
- Social Network :
- [ResearchGate](#)
- Exercice : Go and Test them after reading above Web page

# Bibliographic Management Tool :

Zotero

EndNote

Bibtex

Mendeley

# Zotero

1. Fill in the form with 2 name and email address per group
2. Install Zotero on your computer
3. On Zotero Application
  - Test it creating and removing some entries in it



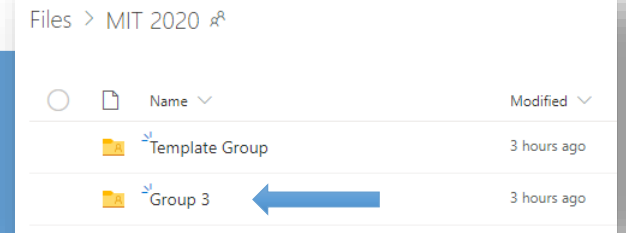
# In OneDrive shared folders



[https://unice-my.sharepoint.com/:f:/g/personal/jean-yves\\_tigli\\_unice\\_fr/EnWuyFgey61Av\\_q0LwH3MPgB\\_Q3zZl8r-OSynGZCCNvh\\_WQ?e=nya0Kb](https://unice-my.sharepoint.com/:f:/g/personal/jean-yves_tigli_unice_fr/EnWuyFgey61Av_q0LwH3MPgB_Q3zZl8r-OSynGZCCNvh_WQ?e=nya0Kb)



Create your group folder



Copy the Excel Template file form « Template Folder »



Use all the informations in your excel to make some relevant queries with keywords on sites like IEEExplore, ACM Digital, Scopus, etc. (see course)



In the results, you can collect (dragging and dropping for example) the suggested papers in the common Web collection « MIT 2020/Collected Papers » (using your own Zotero client).



For each of these papers you add, fill in your excel table after a quick reading.

# Guidelines in Excel Template file form « Template Folder »

- Four Sheets
  - Questions : What are the main question to answer of the Litterature Review
  - Classified Papers Corpus
  - Keywords
  - Some Definitions and Explanations



# Table for Papers Analyzis

[illegible]

- Put the references of each article you found in your excel file, one per line...
- Indicate the keywords and the corresponding query you have made, the number of papers selected, as well as the name of the bibliographic database you have requested.
- Indicate the filters you used
- After a short reading fill in the table
- Last column “comments” allows you to add new ideas that are not listed in the table

# Keywords, Queries and Scientific Database

## Example :

- [IoT, CPS, Smart], Application, Architecture, System, Domain
- (IoT or Internet of Things or Things or Smart or CPS or CyberPhysical or Cyber-Physical) and (Application or Architecture or System) and Domain
- IEEEXplore query :

("IoT" OR "Internet of Things" OR "Things or Smart" OR "CPS" OR "CyberPhysical" OR "Cyber-Physical") AND ("Application" OR "Architecture" OR "System") AND "Domain"

IEEE Xplore<sup>®</sup> Digital Library

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Advanced Search

Advanced Search Command Search Citation Search

Enter keywords, phrases, or a Boolean expression

Use the drop down lists to choose Data Fields and Operators. [Learn how to use Boolean expressions in Command Search.](#)

Data Fields Operators

Operators need to be in all caps - i.e. AND/OR/NOT/NEAR/ONEAR. There is a maximum of 40 search terms.

Search Expression Examples

("IoT" OR "Internet of Things" OR "Things or Smart" OR "CPS" OR "CyberPhysical" OR "Cyber-Physical") AND ("Application" OR "Architecture" OR "System") AND "Domain"

Reset All Search

Learn More

Data Fields

Search Examples

Search Operators

Search Tips



# ... results ... and filters...

Results :

2245 papers !

Now we can  
use automatic  
filters ...

**Show**

☒ All Results

☐ Open Access

**Year**

1992

2020

From 1992 To 2020

**Author**

**Affiliation**

**Publication Title**

**Publisher**

**Supplemental Items**

**Conference Location**

**Standard Status**

**Standard Type**

**Index Terms**

Search within results

Per Page: 25 | Export | Set Search Alerts | Search History

Showing 1-25 of 2,245 for  
(("IoT" OR "Internet of Things" OR "Things or Smart" OR "CPS" OR "CyberPhysical" OR "Cyber-Physical") AND ("Application" OR "Architecture" OR "System") AND "Domain") x

☐ Conferences (1,853) ☐ Journals (308) ☐ Magazines (40) ☐ Early Access Articles (28)

☐ Books (9) ☐ Courses (5) ☐ Standards (2)

**Show**

☒ All Results

☐ Open Access

☐ Select All on Page

Sort By: Relevance

**Year**

1992

2020

From 1992 To 2020

☐ **IoT routing architecture with autonomous systems of things**

Soochang Park ; Noel Crespi ; Hosung Park ; Sang-Ha Kim

2014 IEEE World Forum on Internet of Things (WF-IoT)

Year: 2014 | Conference Paper | Publisher: IEEE

Cited by: Papers (8)

[Abstract](#) [\(html\)](#) (210 Kb)

☐ **Energy-efficient Internet of Things monitoring with low-capacity devices**

Rodrigo J. Carbajales ; Marco Zennaro ; Ermanno Pietrosevoli ; Felix Freitag

2015 IEEE 2nd World Forum on Internet of Things (WF-IoT)

Year: 2015 | Conference Paper | Publisher: IEEE

Cited by: Papers (5)

[Abstract](#) [\(html\)](#) (2612 Kb)

Showing 1-25 of 2,245 for  
(("IoT" OR "Internet of Things" OR "Things or Smart" OR "CPS" OR "CyberPhysical" OR "Cyber-Physical") AND ("Application" OR "Architecture" OR "System") AND "Domain") x

☐ Conferences (1,853) ☐ Journals (308) ☐ Magazines (40) ☐ Early Access Articles (28)

☐ Books (9) ☐ Courses (5) ☐ Standards (2)

# ... and results

Results : 42 papers !

Filters :

- Years : *2018-2020*
- Kind of publication:  
*Conferences , Journals*
- Selected Journal:  
*IEEE Internet of Things Journal*

Showing 1-25 of 42 for  
(("IoT" OR "Internet of Things" OR "Things or Smart" OR "CPS" OR "CyberPhysical" OR "Cyber-Physical") AND ("Application" OR "Architecture" OR "System") AND "Domain") x

▼ Filters Applied: Conferences x Journals x IEEE Internet of Things Journal x 2018 - 2020 x

☐ Early Access Articles (8)

Show

☒ All Results

☐ Open Access

Year ^

Single Year Range

2018 2020

☐ Select All on Page

Sort By: Relevance ▼

☐ Fog/Edge Computing-Based IoT (FECIoT): Architecture, Applications, and Research Issues   
Babatunji Omoniwa ; Riaz Hussain ; Muhammad Awais Javed ; Safdar Hussain Bouk ; Shahzad A. Malik  
IEEE Internet of Things Journal  
Year: 2019 | Volume: 6, Issue: 3 | Journal Article | Publisher: IEEE  
Cited by: Papers (5)  
▶ Abstract [\(html\)](#)  (4864 Kb) 

☐ From Cloud Down to Things: An Overview of Machine Learning in Internet of Things   
Farzad Samie ; Lars Bauer ; Jörg Henkel  
IEEE Internet of Things Journal  
Year: 2019 | Volume: 6, Issue: 3 | Journal Article | Publisher: IEEE

# ... Get references and files

Zotero  
connector

Automatically:

- Drag and Drop the pdf file
- Drag and Drop the web page of the paper

Directly from Web browsers with plugins:

Ex. Zotero Connector for Chrome :

<https://www.zotero.org/download/connectors>

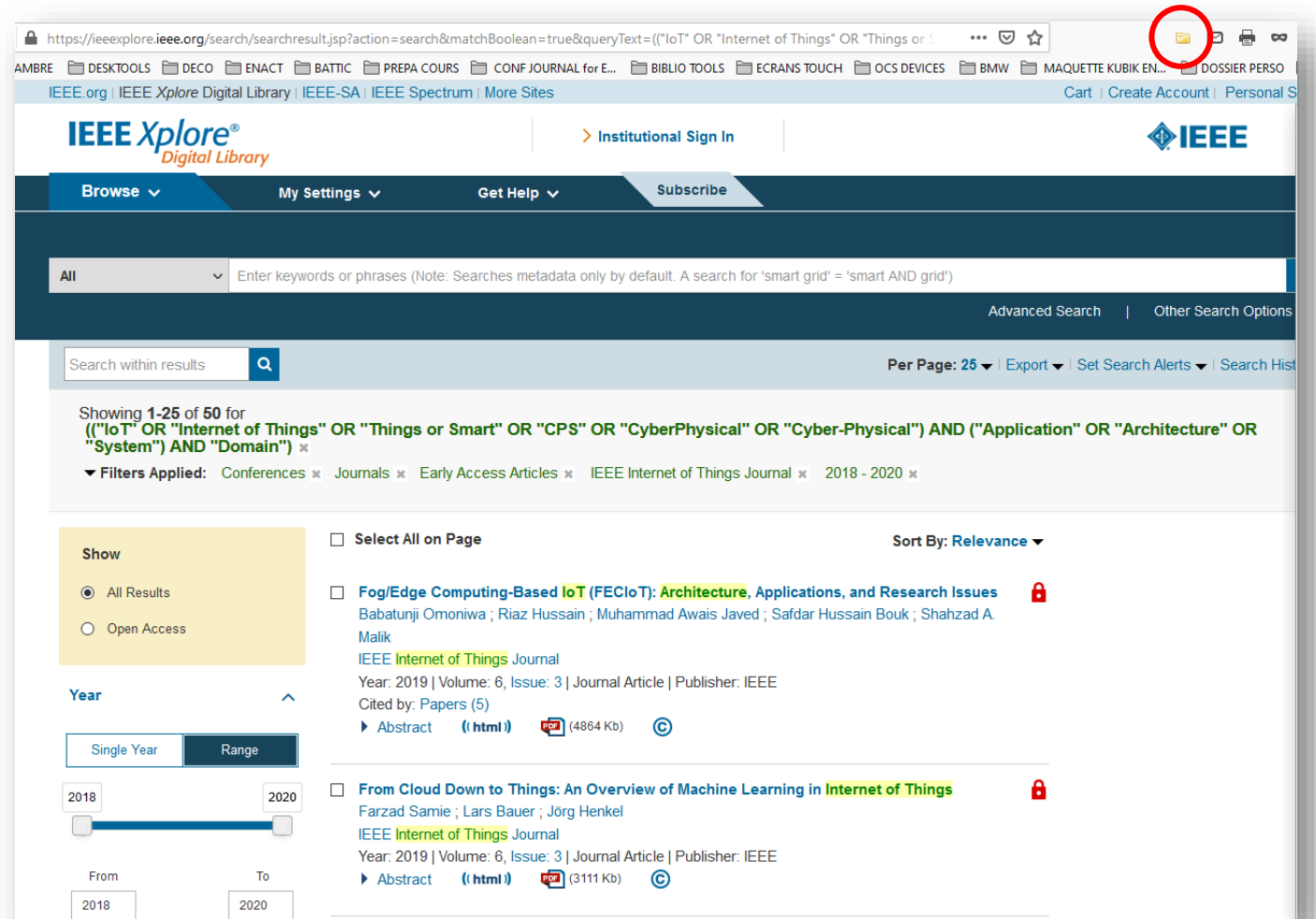
With other plugins and addins:

- <https://www.zotero.org/support/plugins>

With other web sites ...

Manually:

- Search for pdf with google :  
« <Title> filetype:pdf »



# ... Get references and files

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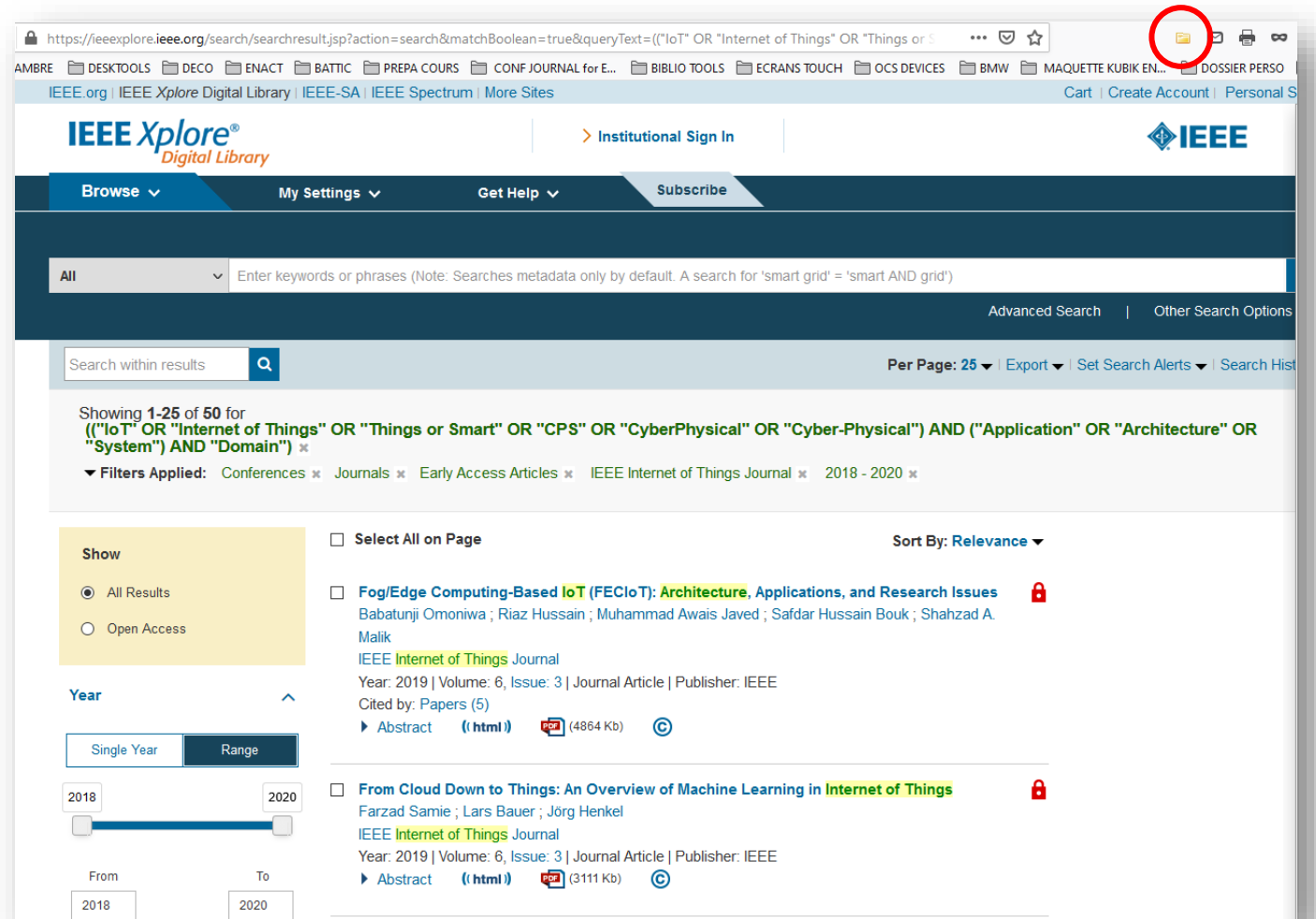
With other plugins and addins:

- <https://www.zotero.org/support/plugins>

With other web sites ...

Manually:

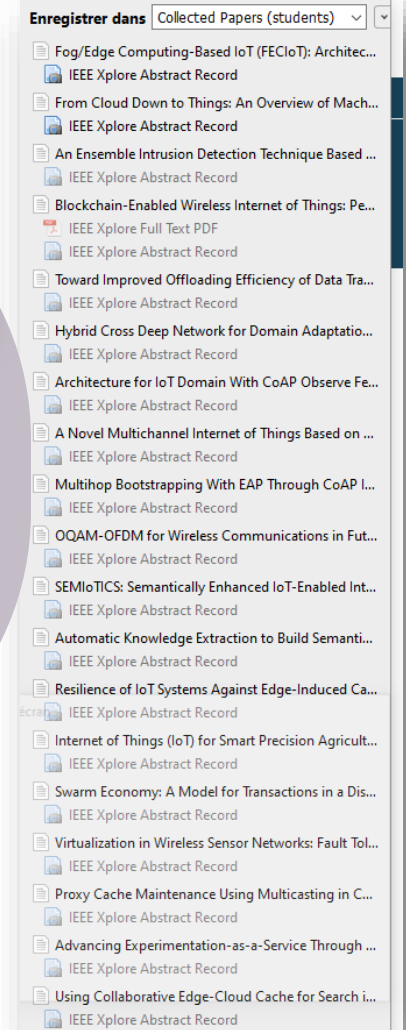
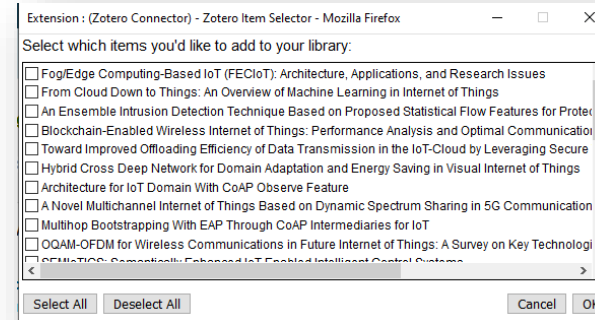
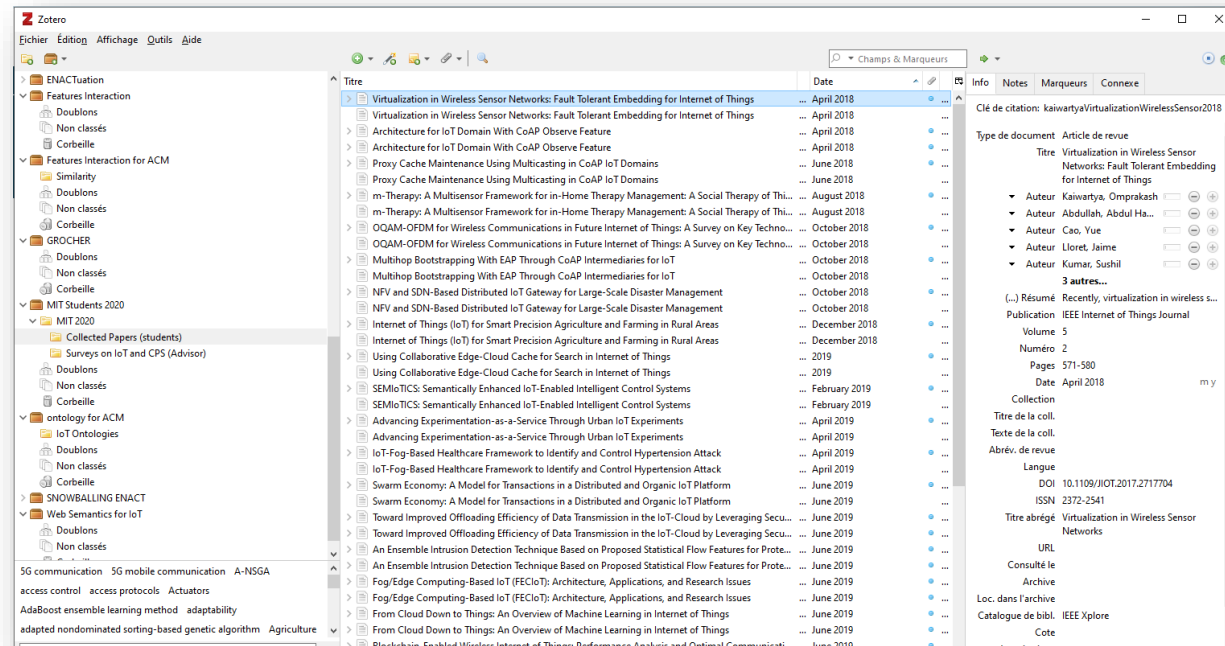
- Search for pdf with google :  
« <Title> filetype:pdf »



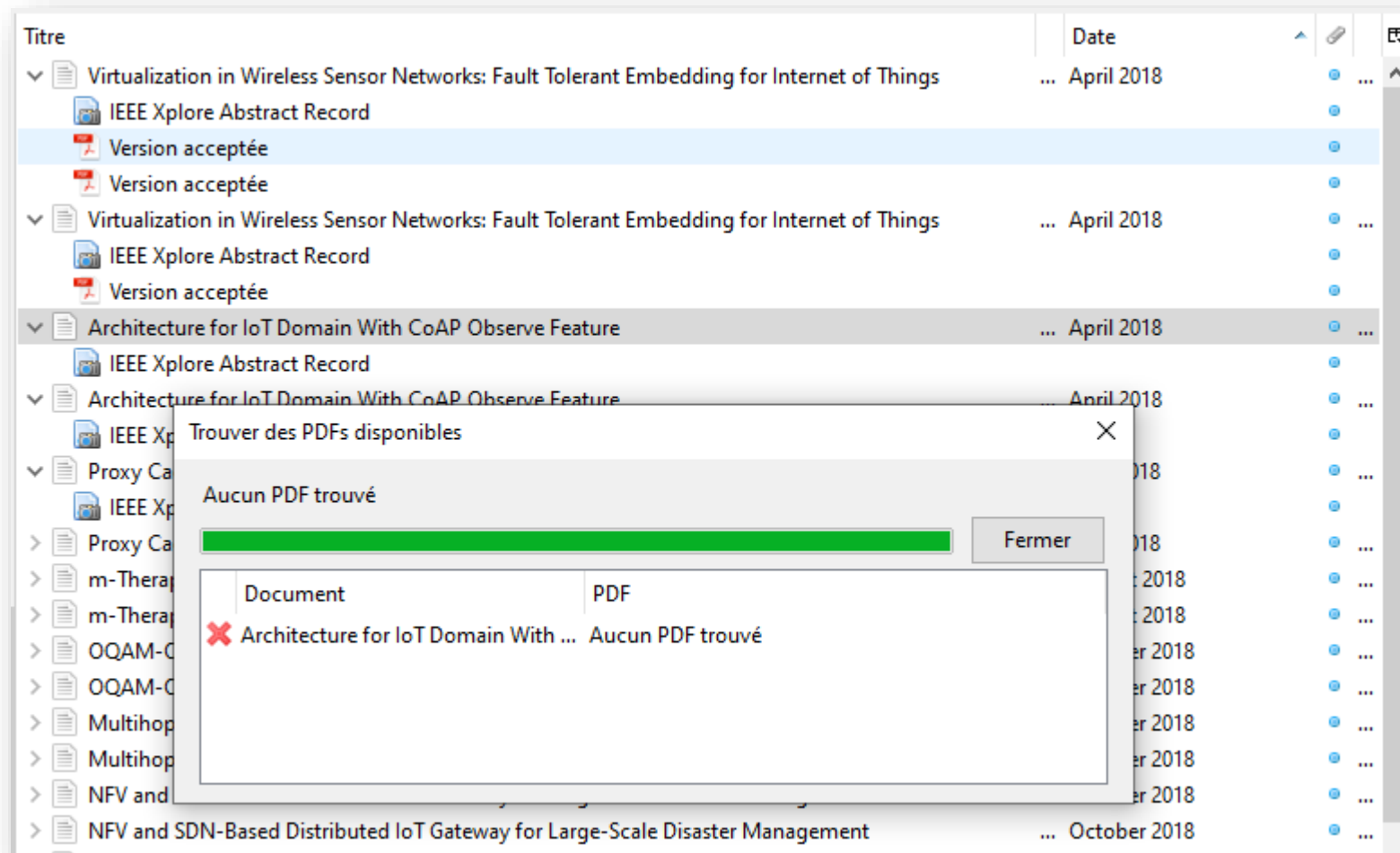
# Zotero Connector

Zotero Connector for Chrome :

<https://www.zotero.org/download/connectors>



# Zotero also search for pdf file when needed



# To improve next queries

...




Add your own  
keywords, their  
synonyms, in a  
"keywords" table

Ex. :  
Framework  
  
Ex. : Smart-  
city, Smart-  
vehicule ...




Remark : in  
IEEEExplore you can  
use wildcard  
character char like \*

Ex. Smart\*



# Exercice : After Installing, test Zotero

1. Create a new collection « test »
  2. Drag and drop a pdf from an open access editor
  3. Test automatic index
  4. Generate a corresponding bibliography entry
  5. Share your collection on the web thanks to your account and zotero web site
- 



# Your Turn !

## Simple Questions :

Q1 : What are main IoT application domains ?

- Find criteria
- Find keywords
- Find logical request with AND / OR (in scopus for example)

Q2 : How many IoT applications « act » in the real world (actuators – actuation - ...) ?

- Find criteria
- Find keywords
- Find logical request with AND / OR (in scopus for example)

Q3 : What are main IoT Systems architectures ?

- Find Criteria
- Find keywords
- Find logical request with AND /OR (in scopus for example)

**Exercise** : Make your own collections and bibliography !

# Evaluation Agenda

- Before Next Course 01/19/21
  - Make your group with two student
  - Choose your Paper Topic
  - Put this information in the corresponding file in the sharepoint
- Before Course 02/09/21
  - Provide a complete bibliography on your topics (in your BIBLIOGRAPHY SYNTHESIS FILE)
- Before the last Course
  - Provide a 2 or 3 pages paper about your topic using the TEMPLATE\_PAPER format
  - With at least the following plan
    - Summary
    - Introduction
    - .... Various section on what you studied ...
    - Synthesis about your topics
    - Conclusion (perspectives and main trends)

