1^{st} 2018/19 GouTP @ SCEE

- About: Searching and Organizing Your Bibliographic References
- *Date:* 25th of October 2018
- Who: Lilian Besson and Bastien Trotobas and Nabil Zeraneh

Open source content ??

```
Note: slides are online: github.com/Naereen/slides/tree/master/
2018_10__Looking_for_and_organizing
_your_bibliographic_references__GouTP_at_CentraleSupelec
```

What's a "GouTP"?

- Internal monthly technical training session [2]
- Usually: on *Thursday*, at *3pm* 🕒 *3:30pm* 🕝
- With $ext{@}$ coffee, $ext{@}$ tea and $ext{@}$ sweets: we relax while training!

Initiative of Quentin and Vincent 🎾 in January 2017... Continued by Rémi, Muhammad, Rami and Lilian 👌 !

Not only @ SCEE \underset{\underset{U}}?

• Now open to all the PhD students of CentraleSupélec, campus of Rennes.

Agenda for today

- 1. Quick presentation of internal tools @ SCEE
- 2. How to look for bibliographic references?
- 3. How to organize your references: Zotero, JabRef & others.

Please 🙏



Ask questions and interrupt me if you want!

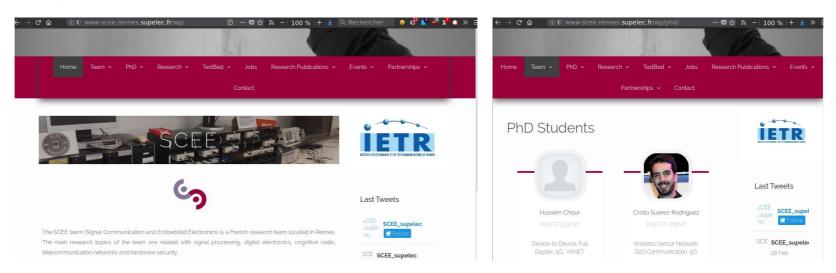
1. Presentation of internal tools @ SCEE

- Welcome to our new PhD student and interns <a>\bullet\$!
- You met (almost) everybody this week!
- You will become familiar with the research themes of our team...

 \hookrightarrow Let see a few % tools that can make your life easier!

Website

- www-scee.rennes.supelec.fr was created by Rémi and Aymeric
- It is maintained by Karim and Majed



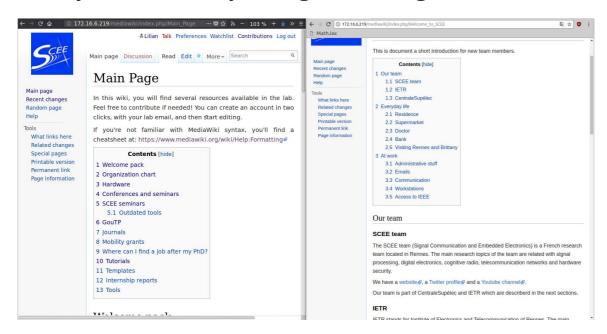
New comers, please 🙏



- send a short summary of your research interest with links to your LinkedIn, Google Scholar profile (or other sites). Picture: if you want
- to Karim and Majed so we add you on the website

Internal Wiki

- We have a MediaWiki running locally on http://172.16.6.219/
- Welcome pack : can be useful in your first days here!
 http://172.16.6.219/mediawiki/index.php/Welcome_to_SCEE
- Anyone can edit, it is maintained by Bastien and Lilian
- Participate if you have anything to change (create an account, edit!)

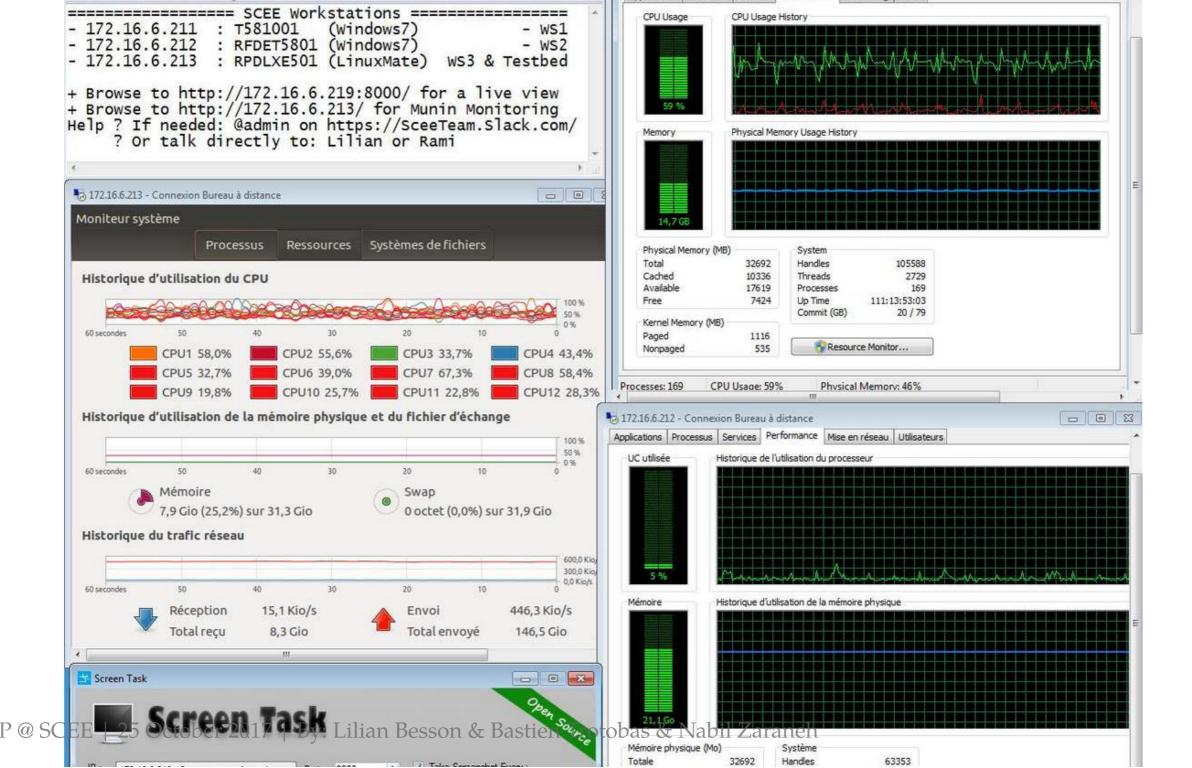


Workstations (Windows & GNU/Linux)

- 2 Windows 7 workstations, with MATLAB
 - o WS1: 172.16.6.211
 - o WS2: 172.16.6.212
- 1 GNU/Linux (Ubuntu) workstation, with Python, GNU Radio...
 - o WS3: 172.16.6.213
- Powerful machines: 12 cores, 32 Gb of RAM, lots of storage...
- Monitoring : http://172.16.6.219:8000 (ask us for id/passwd) (please check for use load, before launching heavy simulations)

Ask for an account if you need

- To run computations, or to use the TestBed
- Ask to Rami for Windows, to Lilian for GNU/Linux



USRP TestBeds

- We have 8 USRP cards that can be used from GNU Radio Companion on the WS3
- See more on http://172.16.6.219/mediawiki/index.php/Main_Page#Hardware

Monitoring \triangleleft

- http://172.16.6.213:8000 (made by Quentin)
- let you see the IP of each USRP card
- and who uses what in real time

Advice

• If you need to use the USRP, discuss with Nabil and Lilian before

SCEETestbed Monitor

Kit N°1	Kit N°2	Kit N°3	Kit N°4	Kit N°5
192.168.10.101	192.168.10.102	192.168.10.103	192.168.10.104	192.168.10.105
Disconnected	Disconnected	Free to use	Free to use	Free to use
Kit N°6	Kit N°7	Kit N°8	Kit N°9	Kit N°10
192.168.10.106	192.168.10.107	192.168.10.108	192.168.10.109	192.168.10.110
Free to use	Free to use	Free to use	Disconnected	Free to use
Kit N°11	Kit N°12	Kit N°13	Kit N°14	Kit N°15
192.168.10.111	192.168.10.112	192.168.10.113	192.168.10.114	192.168.10.115
Free to use	Disconnected	Disconnected	Disconnected	Disconnected
Kit N°16	Kit N°17	Kit N°18	Kit N°19	Kit N°20
192.168.10.116	192.168.10.117	192.168.10.118	192.168.10.119	192.168.10.120
Mirleywy20177 R	v: biliannRetadon 8	- Raidriguna todoha	s & Disconnected aneh	Disconnected

2. How to look for bibliographic references?

- Do we need references?
 - Yes
- But just for the paper right?
 - No: you need references at every step of our research job!
- **!** How to find references?
 - We will see some techniques

Reading papers

- Each research paper has a list of references
- This always gives an easy way to find new references: just go read every quoted paper!

--- V W -- 120% T V Rechercher

References

- Lilian Besson and Emilie Kaufmann. What Doubling Trick Can and Can't Do for Multi-Armed Bandits. Preprint, February 2018a. URL hal.inria.fr/hal-01736357.
- Lilian Besson and Emilie Kaufmann. Multi-Player Bandits Revisited. In *Algorithmic Learning Theory*, Lanzarote, Spain, April 2018b. URL hal.inria.fr/hal-01629733.
- Lilian Besson, Emilie Kaufmann, and Christophe Moy. Aggregation of Multi-Armed Bandits Learning Algorithms for Opportunistic Spectrum Access. In *IEEE WCNC IEEE Wireless Communications* and Networking Conference, Barcelona, Spain, April 2018. URL hal.inria.fr/hal-01705292.
- Georg Brandl et al. Sphinx: Python documentation generator, 2018. URL www.sphinx-doc.org.
- Sébastien Bubeck and Nicolò Cesa-Bianchi. Regret Analysis of Stochastic and Non-Stochastic Multi-Armed Bandit Problems. Foundations and Trends® in Machine Learning, 5(1), 2012.
- Olivier Chapelle and Lihong Li. An Empirical Evaluation of Thompson Sampling. In Advances in Neural Information Processing Systems, pages 2249–2257. Curran Associates, Inc., 2011.

^{6.} See the page SMPyBandits.GitHub.io/DoublingTrick on the documentation.

Note: the simulation code used for the experiments in Section 5 is for MATLAB or GNU Octave, and is open-sourced under the MIT License,

at: https://Bitbucket.org/scee_ietr/rl_slotted_iot_networks.

References

- M. Centenaro, L. Vangelista, A. Zanella, and M. Zorzi, "Long-range communications in unlicensed bands: the rising stars in the IoT and smart city scenarios," IEEE Wireless Communications, vol. 23, no. 5, pp. 60–67, 2016.
- T. L. Lai and H. Robbins, "Asymptotically efficient adaptive allocation rules," Advances in Applied Mathematics, vol. 6, no. 1, pp. 4–22, 1985.
- S. Bubeck, N. Cesa-Bianchi, et al., "Regret analysis of Stochastic and Non-Stochastic Multi-Armed Bandit Problems," Foundations and Trends® in Machine Learning, vol. 5, no. 1, pp. 1–122, 2012.
- P. Auer, N. Cesa-Bianchi, and P. Fischer, "Finite-time Analysis of the Multi-armed Bandit Problem," Machine Learning, vol. 47, no. 2, pp. 235–256, 2002.
- W. R. Thompson, "On the likelihood that one unknown probability exceeds another in view of the evidence of two samples," Biometrika, vol. 25, 1933.
- S. Agrawal and N. Goyal, "Analysis of Thompson sampling for the Multi-Armed Bandit problem," in JMLR, Conference On Learning Theory, pp. 39–1, 2012.
- E. Kaufmann, N. Korda, and R. Munos, Thompson Sampling: an Asymptotically Optimal Finite-Time Analysis, pp. 199–213. Springer, Berlin Heidelberg, 2012.
- S. Haykin, "Cognitive Radio: Brain-Empowered Wireless Communications," IEEE Journal on Selected Areas in Communications, vol. 23, no. 2, pp. 201–220, 2005.
- W. Jouini, D. Ernst, C. Moy, and J. Palicot, "Upper Confidence Bound Based Decision Making Strategies and Dynamic Spectrum Access," in 2010 IEEE International Conference on Communications, pp. 1–5, 2010.
- V. Toldov, L. Clavier, V. Loscr, and N. Mitton, "A Thompson Sampling approach to channel exploration-exploitation problem in multihop cognitive radio networks," in *PIMRC*, pp. 1–6, 2016.
- R. Bonnefoi, C. Moy, and J. Palicot, "Advanced metering infrastructure backhaul reliability improvement with Cogn.Radio," in SmartGridComm, pp. 230–236, 2016.
- S. Boyd and L. Vandenberghe, Convex Optimization. Cambridge Univ. Press, 2004.
- 13. D. G. Luenberger, "Quasi-convex programming," SIAM Journal on Applied Math-By matrix, vol. 8, pastion 1050 1963 & Nabil Zaraneh
- 14. M. E. Yaari, "A note on separability and quasiconcavity," Econometrica, vol. 45,

Looking by keyword

- Try to look for some keywords, in Google Scholar, Google, DuckDuckGo, ResearchGate etc
- Some keywords will give a lot of results!
- Filter by language! Filter by date!
- Combine keywords!



Q

All

Images

News

Videos

Maps

More

Settings

Tools

About 9,440,000 results (0.27 seconds)

[PDF] Multi-Armed Bandit Learning in IoT Networks - Archive ouverte HAL

https://hal.archives-ouvertes.fr/hal-01575419/document ▼

by R Bonnefoi - 2017 - Cited by 9 - Related articles

Jul 2, 2018 - Multi-Armed **Bandit** Learning in **IoT** Networks: Learning helps even in non-stationary settings. Rémi Bonnefoi, Lilian Besson, Christophe Moy, ...

Multi-Armed Bandit Learning in IoT Networks: Learning helps even in ...

https://arxiv.org > cs ▼

by R Bonnefoi - 2018 - Cited by 9 - Related articles

Jul 2, 2018 - Computer Science > Networking and Internet Architecture ... Multi-Armed Bandit (MAB) learning algorithms to improve resource exploitation.

Inria - Multi-Armed Bandit Learning in IoT Networks: Learning helps ...

https://hal.inria.fr/hal-01575419 ▼ Translate this page

Sep 4, 2018 - Setting up the future Internet of Things (IoT) networks will require to support ... Bandit (MAB) learning algorithms to improve resource exploitation.

(PDF) A Bandit Approach for Intelligent IoT Service Composition ...

https://www.researchgate.net/.../308412577_A_Bandit_Approach_for_Intelligent_IoT_S...

About 809,000 results (0.44 seconds)

GitHub - bgalbraith/bandits: Python library for Multi-Armed Bandits

https://github.com/bgalbraith/bandits ▼

Python library for Multi-Armed Bandits. Contribute to bgalbraith/bandits development by creating an account on GitHub.

Topic: multi-armed-bandit · GitHub

https://github.com/topics/multi-armed-bandit ▼

A multi-armed bandit library for Python ... A simple implementation of the multi_arm_bandit problem which can be used in Open AI gym as well.

SMPyBandits · PyPI

https://pypi.org/project/SMPyBandits/ ▼

Mar 7, 2018 - SMPyBandits: Open-Source Python package for Single- and Multi-Players multi-armed Bandits algorithms.

[PDF] SMPyBandits: an Open-Source Research Framework for Single and ...

https://perso.crans.org/besson/articles/SMPyBandits__Long_Version__02-2018.pdf ▼

by L Besson - 2018 - Related articles

Looking by author

- If you know an author, it's easy to find his/her work
- It usually gives good references on related work!

Example?

• For examples, with my advisor Émilie Kaufmann...



emilie kaufmann





All

News

Images

Videos

Maps

More

Settings

Tools

About 2,790,000 results (0.48 seconds)

Emilie Kaufmann - Inria

chercheurs.lille.inria.fr/ekaufman/ >

Welcome to my professional webpage. I am a CNRS Junior Researcher in the CRIStAL at Université de Lille. I am also a member of the Inria team SequeL.

Research

Emilie Kaufmann, Wouter Koolen and Aurélien Garivier ...

More results from inria.fr »

Un point de vue bayésien pour ...

Un point de vue bayésien pour des algorithmes de bandit plus ...

Emilie Kaufmann - Citations Google Scholar

scholar.google.com/citations?user=9GE1vx4AAAAJ&hl=fr ▼

Thompson sampling: An asymptotically optimal finite-time analysis. E **Kaufmann**, N Korda, R Munos. International Conference on Algorithmic Learning Theory, ...

dblp: Emilie Kaufmann

https://dblp.org > Persons ▼



Emilie Kaufmann

CNRS Junior Researcher at CRIStAL emilie.kaufmann"at"univ-lille.fr

Equipe SequeL, Bureau A07
40, avenue du Halley
59650 Villeneuve d'Ascq, FRANCE
+333.59.57.79.12.

Home

Research

Teaching

CV

PUBLICATIONS

TALKS

STUDENTS AND PROJECTS

2017

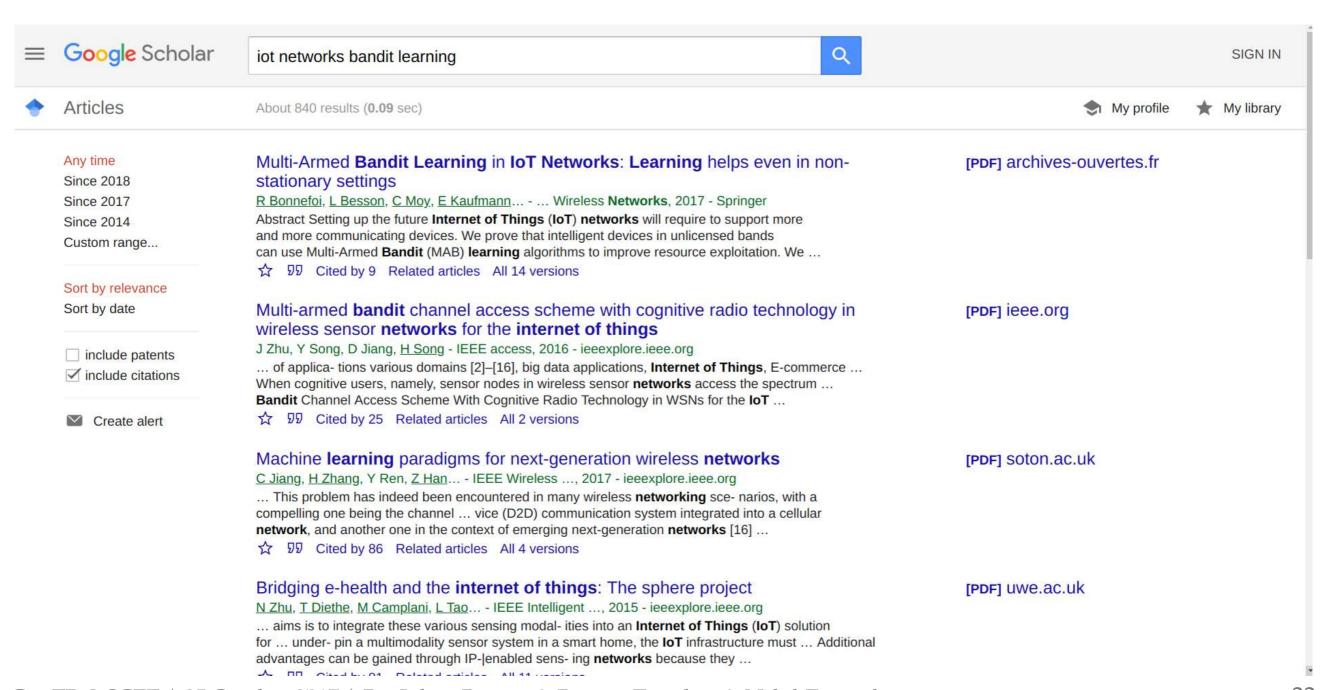
- <u>Learning the distribution with largest mean: two bandit frameworks.</u> Emilie Kaufmann and Aurélien Garivier. ESAIM: Proceedings and Surveys, Vol 60:114-131.
- Monte-Carlo Tree Search by Best Arm Identification. Emilie Kaufmann and Wouter M. Koolen. Advances in Neural Processing Systems (NIPS).
- <u>Multi-Armed Bandit Learning in IoT Networks: Learning helps even in non-stationary settings.</u> Rémi Bonnefoi, Lilian Besson, Christophe Moy, Emilie Kaufmann and Jacques Palicot. International Conference on Cognitive Radio Oriented Wireless Networks (CROWNCOM). (best paper award)
- <u>A Spectral Algorithm with Additive Clustering for the Recovery of Overlapping Communities in Networks.</u> Emilie Kaufmann, Thomas Bonald and Marc Lelarge. Journal of Theoretical Computer Science.
- On Bayesian Index Policies for Sequential Resource Allocation. Emilie Kaufmann. Annals of Statistics, Vol 46(2): 842-865.

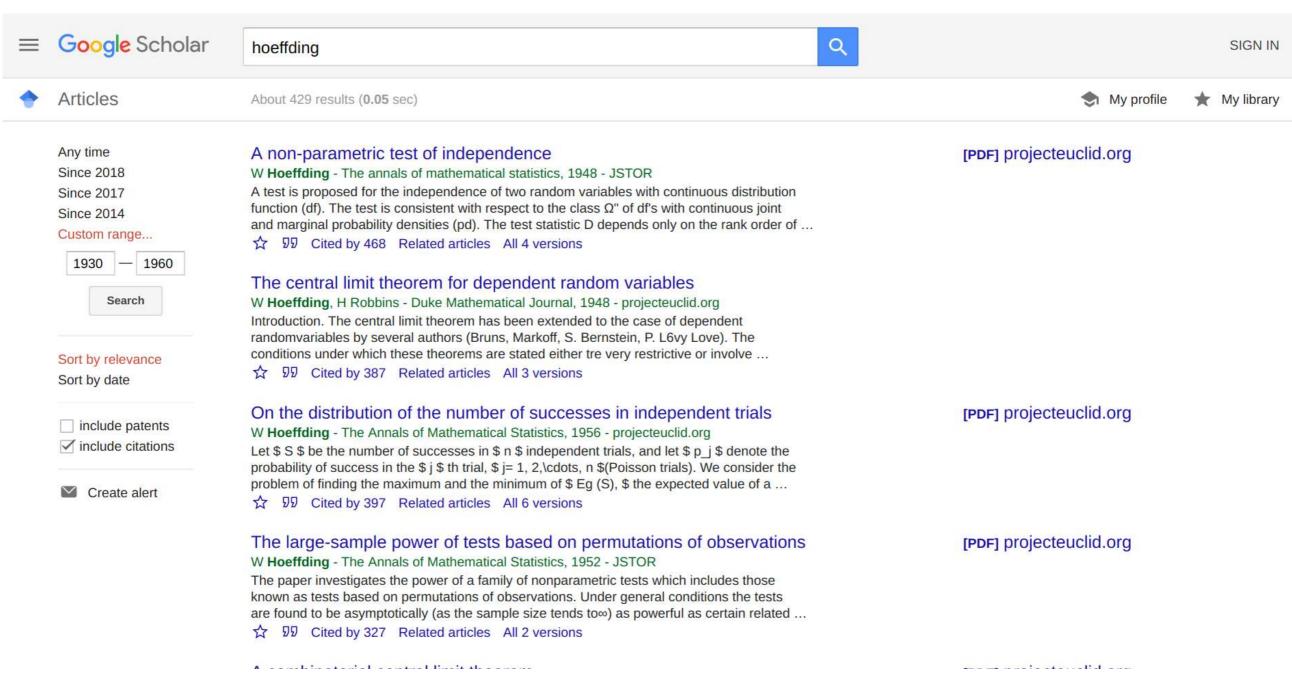
2016

- Modèles de bandit : une histoire bayésienne et fréquentiste (survey paper in French). MATAPLI 109:51-64, 2016.
- On Explore-Then-Commit Strategies. Aurélien Garivier, Emilie Kaufmann and Tor Lattimore. Advances in Neural Processing Systems (NIPS).

Google Scholar

- Many researchers have a Google Scholar profile
- But it is also very useful to look for new references





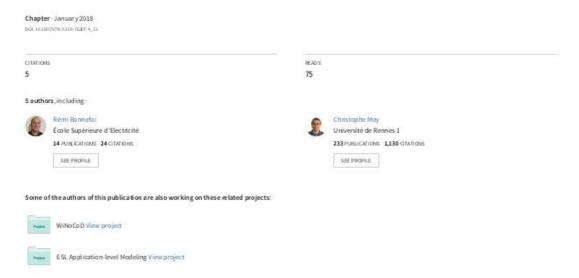
ResearchGate

- Many researchers have a ResearchGate profile
- But it is also very useful to look for new references
- (same, just less popular than Google Scholar)

Warning!

- they have a very aggressive copyright policy!
- Suggestion: do as Rémi:
 only upload a one-page PDF that links to the HAL version

Multi-Armed Bandit Learning in IoT Networks: Learning Helps Even in Nonstationary Settings



Multi-Armed Bandit Learning in IoT Networks: Learning Helps Even in Non-stationary Settings

Rémi Bonnefoi⁽¹⁾, Lilian Besson⁽¹⁾⁽²⁾, Christophe Moy⁽¹⁾, Emilie Kaufmann⁽²⁾ and Jacques Palicot⁽¹⁾

(1) Centrale Supélec / IETR, Centrale Supélec Campus de Rennes Avenue de la Boulais, 35510 CessonSévigné, France

²⁾ Univ. Lille 1, CNRS, Iniria, SeQueL Team, UMR 9189 – CRIStAL, F-59000 Lille, France First Last@(CentraleSupelec, Univ-Lille1).fr

Full text available at: https://hal.archives-ouvertes.fr/hal-01575419

The matlab code is available at: https://bitbucket.org/scee_ietr/rl_slotted_iot_networks

How to find the PDF of a research paper?

Once you know what to read, try this to find the paper:

- 1. Google Scholar / ResearchGate / Academia
- 2. Google / DuckDuckGo / your favorite search engine
- 3. The author's website! *Or directly ask them!*
- 4. arXiv search page (it's brand new and works perfectly well!),
- 5. or HAL search page, or arXiv-sanity
- 6. IEEEXplore : CentraleSupélec pays the license! ieeexplore-ieee-org.bibliopam.supelec.fr
- 7. Some hacky websites (use at your own risk), e.g., Sci-Hub → WhereIsSciHub.Now.sh?
- 8. 1 Never pay yourself to read a research paper! 1

All

Images

News

Shopping

Videos

More

Settings

Tools

About 83,100 results (0.57 seconds)

Scholarly articles for Multi-Armed Bandit Learning in IoT Networks: Learning helps even in non-stationary settings

Multi-Armed Bandit Learning in IoT Networks: Learning ... - Bonnefoi - Cited by 9

[PDF] Multi-Armed Bandit Learning in IoT Networks: Learning helps even in ...

https://hal.archives-ouvertes.fr/hal-01575419/document ▼

by R Bonnefoi - 2017 - Cited by 9 - Related articles

Jul 2, 2018 - Multi-Armed Bandit Learning in IoT Networks: Learning helps even in non-stationary settings. Rémi Bonnefoi, Lilian Besson, Christophe Moy, ...

Multi-Armed Bandit Learning in IoT Networks: Learning helps even in ...

https://arxiv.org > cs ▼

by R Bonnefoi - 2018 - Cited by 9 - Related articles

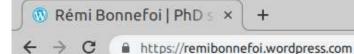
Jul 2, 2018 - Computer Science > Networking and Internet Architecture ... Bandit Learning in IoT

Networks: Learning helps even in non-stationary settings.

Multi-Armed Bandit Learning in IoT Networks: Learning Helps Even in ...

https://link.springer.com/chapter/10.1007/978-3-319-76207-4_15

antimal performance area in man stationary and pentil desettings



[C10] – Bonnefoi, R.; Tarcisio, M.; C. Estêvão Fernandes "Latency Efficient Request Access Rate for Congestion Reduction in LTE MTC", ICT, June 2018. *▶*

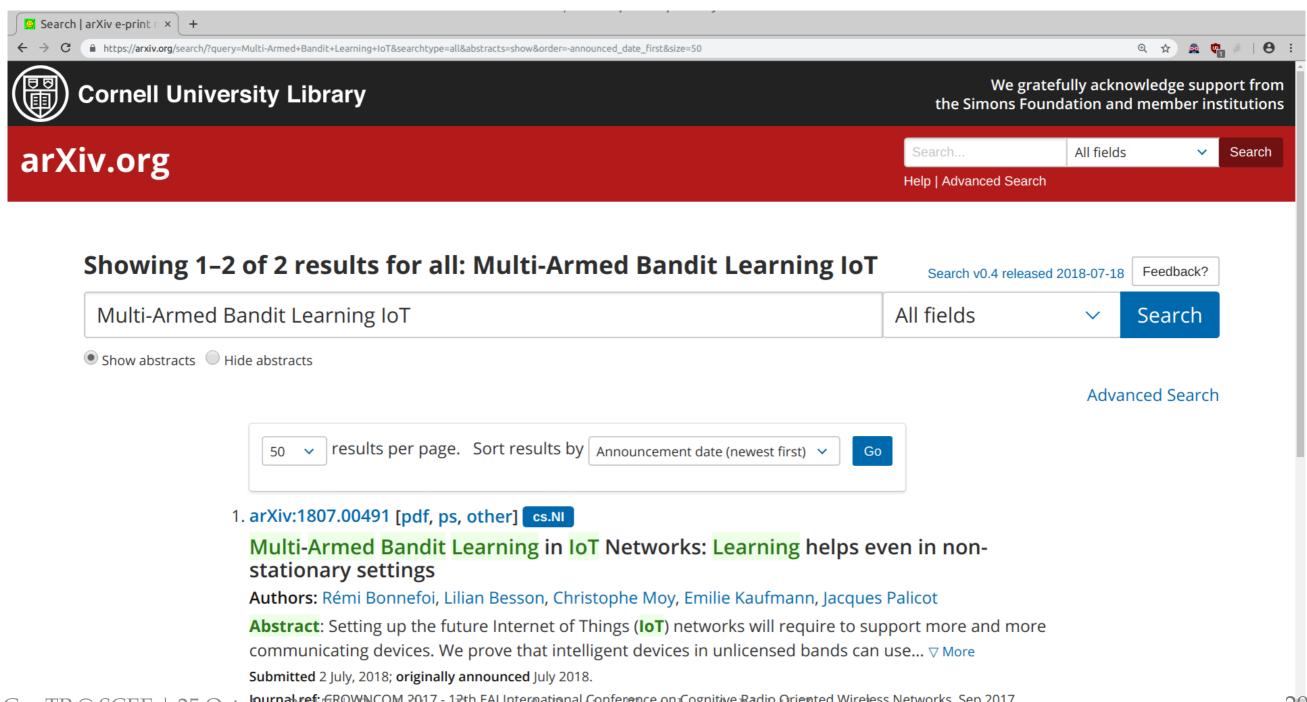
[C9] – Bonnefoi, R.; Besson, L.; Moy, C.; Kaufmann, E.; Palicot, J. "Multi-Armed Bandit Learning in IoT Networks: Learning helps even in non-stationary settings", CROWNCOM, September 2017. 🔑 🔥 (Best Paper Award)

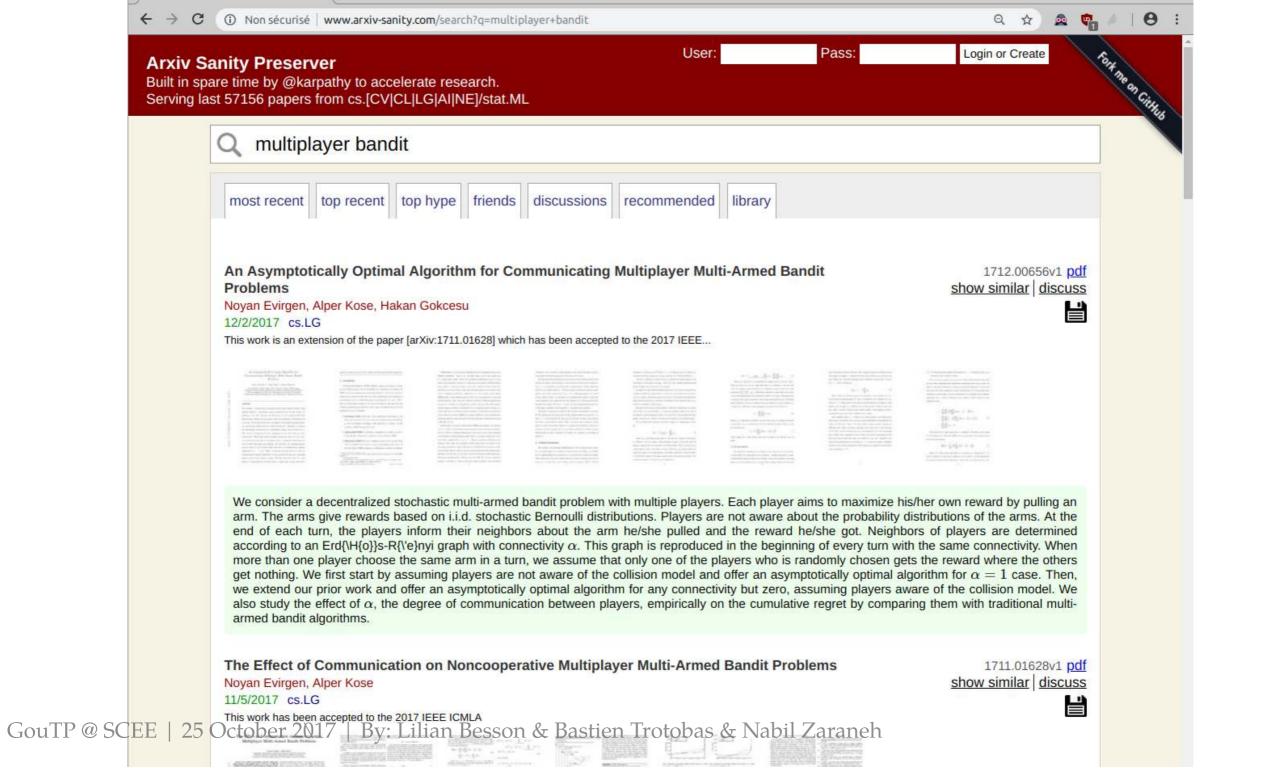
[C8] – Bonnefoi, R.; Moy, C.; Palicot, J. "Mises en veille dynamique pour Minimiser la Consommation d'Energie d'une Station de Base", Colloque GRETSI, Septembre 2017.

✓

[C7] - Bonnefoi, R.; Moy, C.; Palicot, J. "Framework for Hierarchical and Distributed Smart Grid Management", URSI GASS, August 2017.

[C5] - Bonnefoi, R.; Nafkha, A. "A New Lower Bound on the Ergodic Capacity of Optical MIMO Channels", ICC, May 2017.





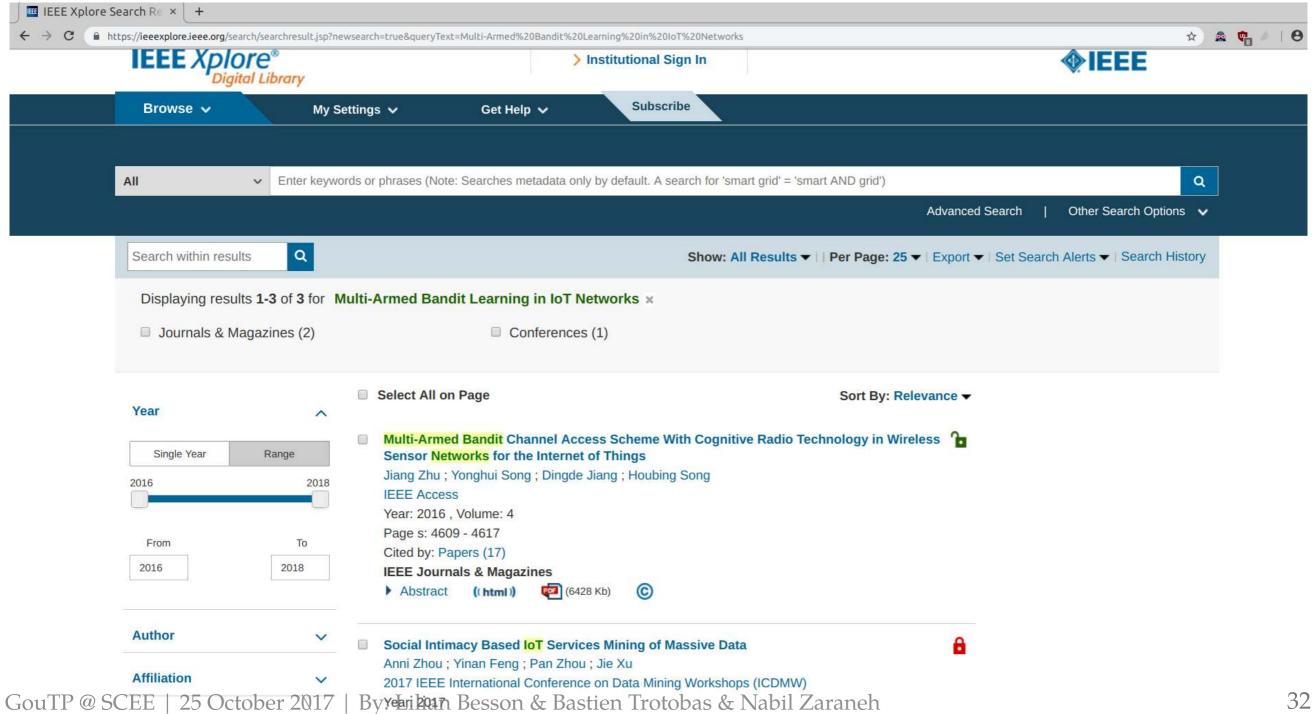


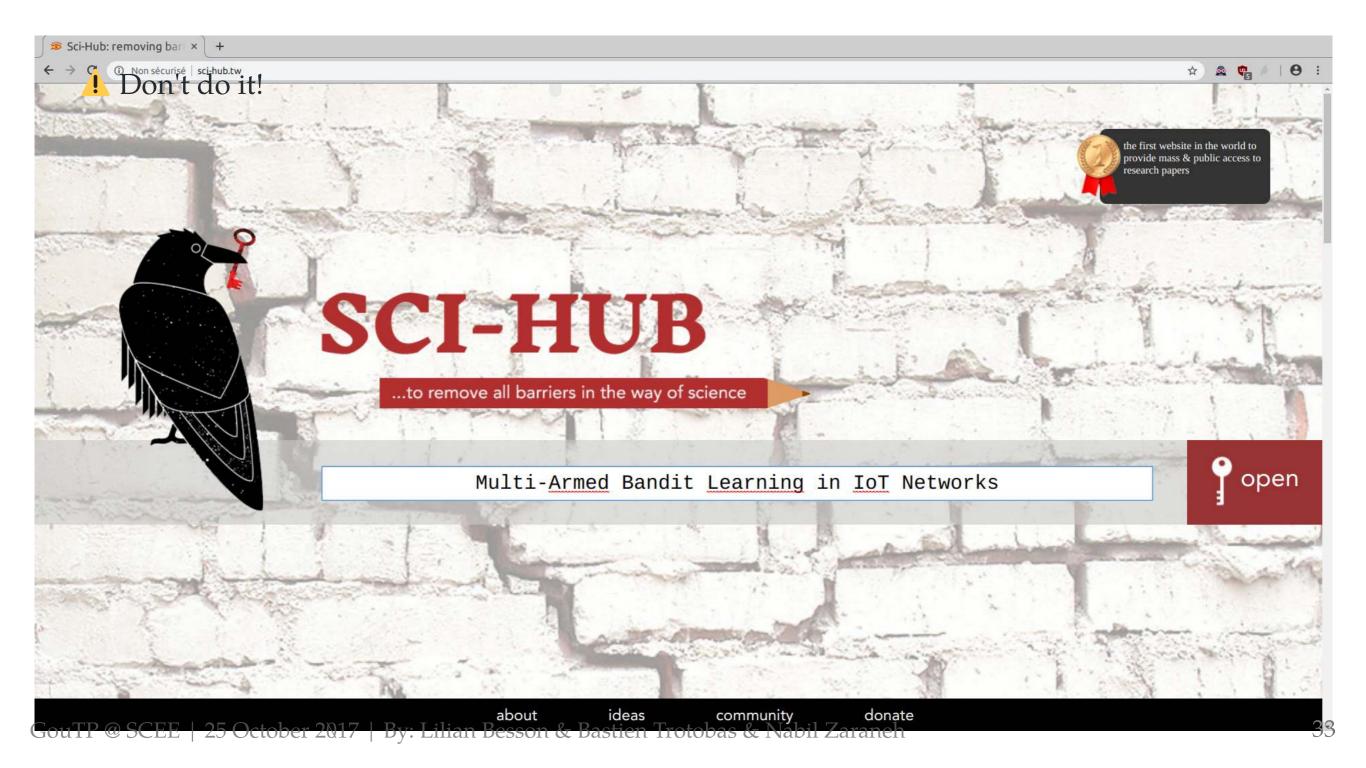
Rémi Munos (1)



Philippe Rolet, Michèle Sebag, Olivier Teytaud. Boosting Active Learning to Optimality: a

Dépôt Consultation -Recherche Documentation Accueil Recherche Filtres multi-player bandit QRechercher Type de document x Type de dépôt Recherche avancée... Tous × 8 résultats IÎTri → ■Nombre -FOutils -TYPE DE DOCUMENT hal-00562257v2 Pré-publication, Document de travail Communication dans un Antoine Salomon. Large Bandit Games congrès (3) 2010 Pré-publication, Document de travail (2) tel-01420663v3 Thèse Article dans une revue (1) Robin Allesiardo. Bandits Manchots sur Flux de Données Non Stationnaires Rapport (1) Intelligence artificielle [cs.AI]. Université Paris-Saclay, 2016. Français. (NNT: 2016SACLS334) ✓ Thèse (1) AUTEUR halshs-01723513v1 Article dans une revue Nobuyuki Hanaki, Alan Kirman, Paul Pezanis-Christou. Observational and reinforcement patternlearning: An exploratory study * Robin Allesiardo (1) European Economic Review, Elsevier, 2018, 104, pp.1 - 21. (10.1016/j.euroecorev.2018.01.009) Lilian Besson (1) A. Garivier (1) Nobuyuki Hanaki (1) hal-01840022v1 Pré-publication, Document de travail Emilie Kaufmann (1) Lilian Besson. SMPyBandits: an Experimental Framework for Single and Multi-Players Multi-Arms Bandits Algorithms in Python Alan Kirman (1) 2018 Wouter Koolen (1) **≜**Odalric-Ambrym By: Lilian Bessonia 08433866 Vie Communication dans un congrès neh 25 Malatober 2017





How to write paper and insert bibliography

- Use LaTeX
- Use *BibTeX* (or *BibLaTeX*)

Example (LaTeX .tex file and BibTeX .bib file):

```
\bibliographystyle{ieeetr} % or alpha, or other style \bibliography{myBibFile} % at the end of the LaTeX file
```

```
Ounpublished{SMPyBanditsHAL,
    title = {{SMPyBandits: an Experimental Framework
    for Single and Multi-Players Multi-Arms Bandits Algorithms in Python}},
    author = {Besson, Lilian},
    url = {https://hal.inria.fr/hal-01840022},
    note = {Presentation paper, at hal.inria.fr/hal-01840022},
    year = {2018},
}
```

Example: In the body of the article

For instance, in my numerical environment [Bes18], we can³ generate some change point if we assume that at every time step t = 1, ..., T], there is a (small) probability $p \in (0, 1)$ to have a change point. This is for instance the model considered in [AF17].

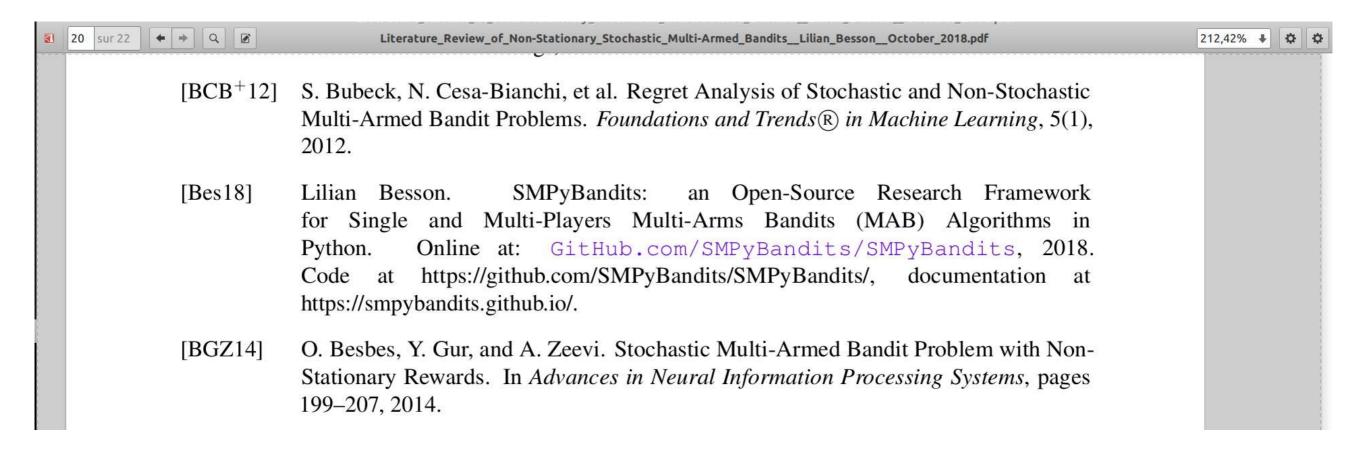
The number of change points Υ_T should not be a constant w.r.t. T (otherwise when $T \to \infty$ only the last section counts and give a stationary problem so it is not harder). Some algorithms require to know the value of Υ_T , or at least an upper-bound, and some algorithms try to be efficient without knowing it (this is what we want!).

Limit case and harder case? The goal is to have an efficient algorithm, but of course if $\Upsilon_T = \Omega(T)$ the problem is too hard to hope to be efficient and any algorithm will suffer a linear regret (*i.e.*, be as efficient as a naive random strategy).

Moreover, letting an adversary choosing the location of the breakpoints is obviously harder, but it is still unclear how much harder.

Applications? This model makes sense from an application point of view if the action time scale is fast. For instance, using MAB for Internet of Things networks, like in [BBM⁺17], if the dynamic devices are choosing channels for fast communications that happen, *e.g.*, every second, this abruptly changing problem could be interesting. For example for the connected agriculture setting, an abrupt change can correspond to a new farmer having equiped all of her/his cows with connected devices, as a large number of new devices in a network will abruptly change the availability or quality of some radio channels.

Example: In the reference list



Lazy way to organize your references

- Keep a bibtex file for each research project or paper,
- Fill it slowly and painfully everytime you think of a new reference
- Struggle a lot
- \Longrightarrow avoid this lazy solution \blacktriangle

Lilian: I'm ashamed but I'm still at this level...

Smart way to organize your references

Use a dedicated software such as

- Zotero \Longrightarrow ask me
- JabRef \Longrightarrow ask Hussein
- Others (see full comparison by Munich University)

Why selecting this two ones

- Used by the team
- Cross-plateform (Windows, Mac, Linux)
- Integration with text editors
- Open source \Longrightarrow free

But what is this?

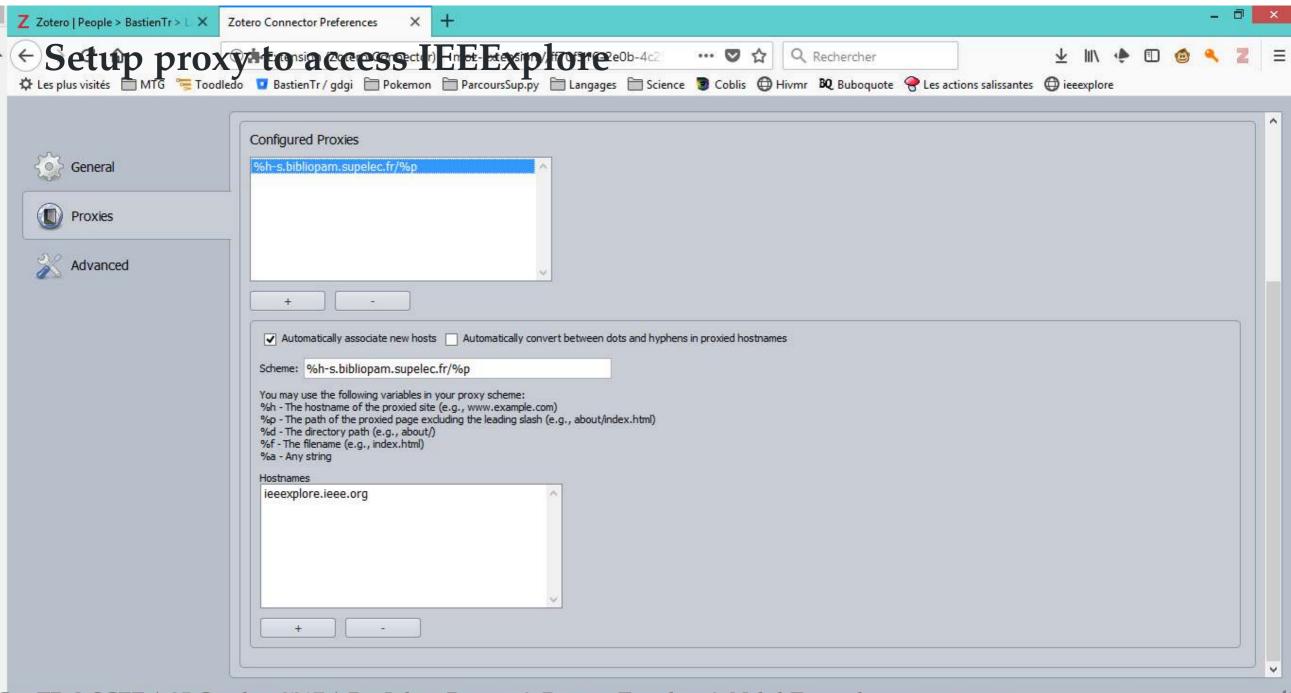
Goal

- To help you along
 - o searching,
 - o classifying,
 - inserting references in your papers.

Let's go for a quick walkthrough 🚶

Step 1: Download, install and setup

- Download and install from website (Zotero, JabRef, etc).
- Download and install browser add-on.
 - Zotero: Firefox, Chrome & Safari
 - JabRef: Firefox only
- Setup synchronization.
 - Backup your bibliography
 - Share your bibliography
- Setup CentraleSupelec proxy if you want to access IEEExplore with connector.



Step 2: Develop your bibliography

On both Zotero & JabRef

- Import files from your computer
- Save pages from your web browser
 - Papers
 - Web pages
 - Wikipedia...

On JabRef

• Search for papers on IEEExplore, arXiv, Google Scholar...

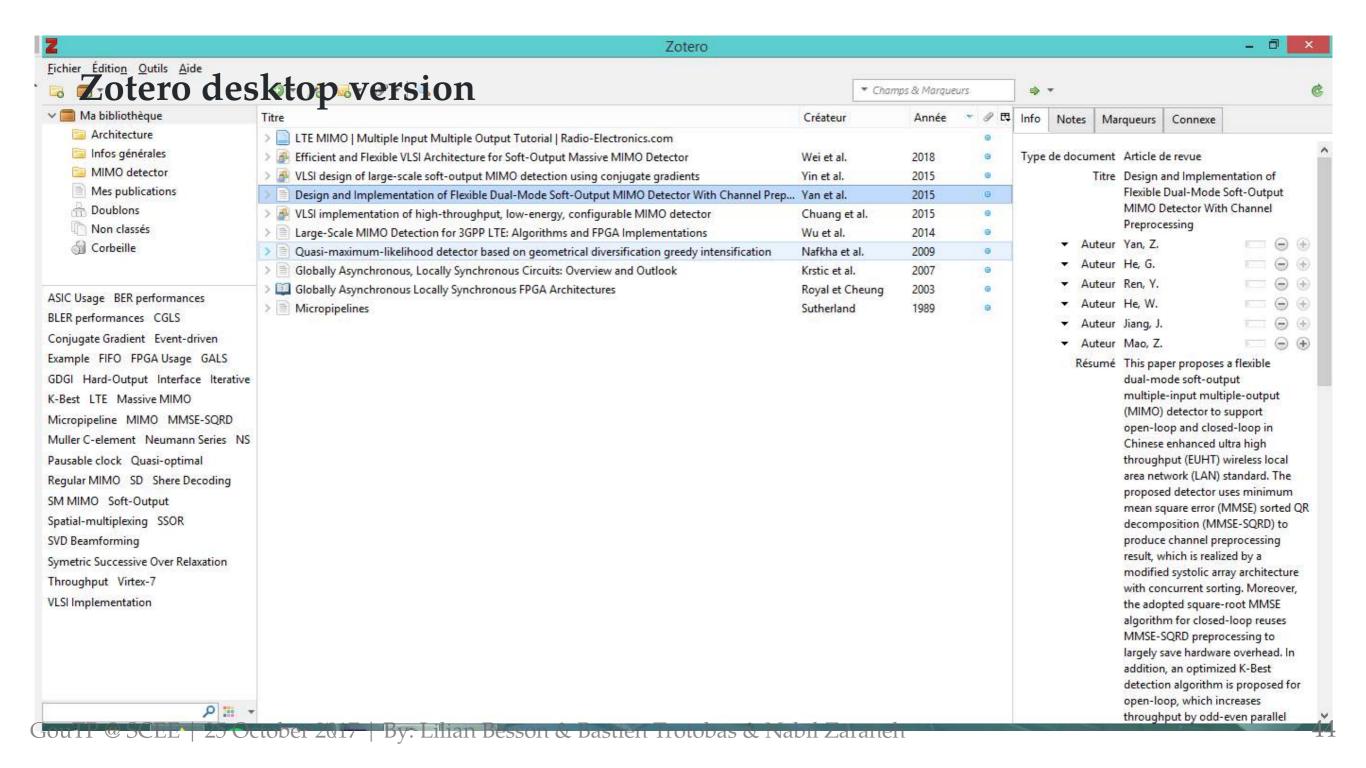
Step 3: Classify your bibliography

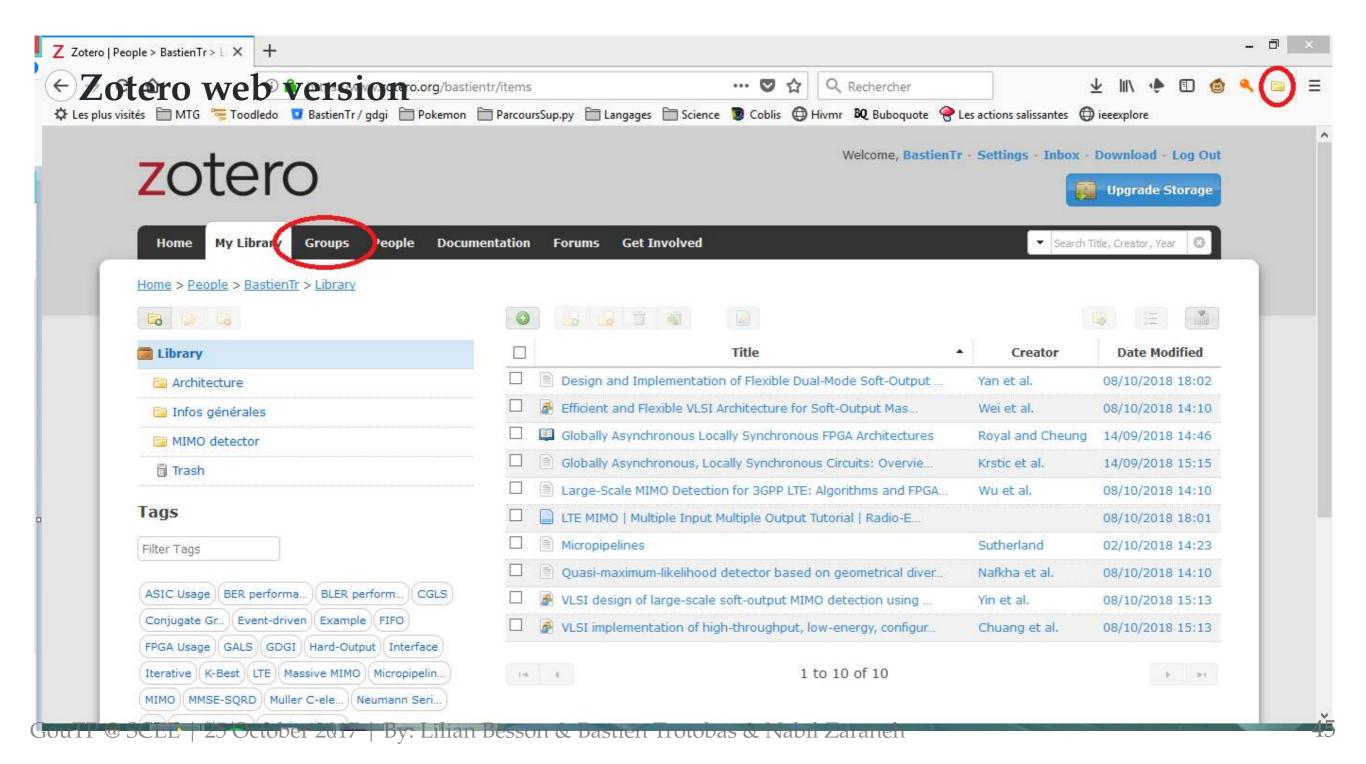
On both Zotero & JabRef

- Classify into collections to sort documents by topics.
- Automatic fetch of meta-data.
- Search based on author, date, conferences...
- Add notes and comments.

On Zotero

- Add markers and use them to find articles.
- Construct a chronology.



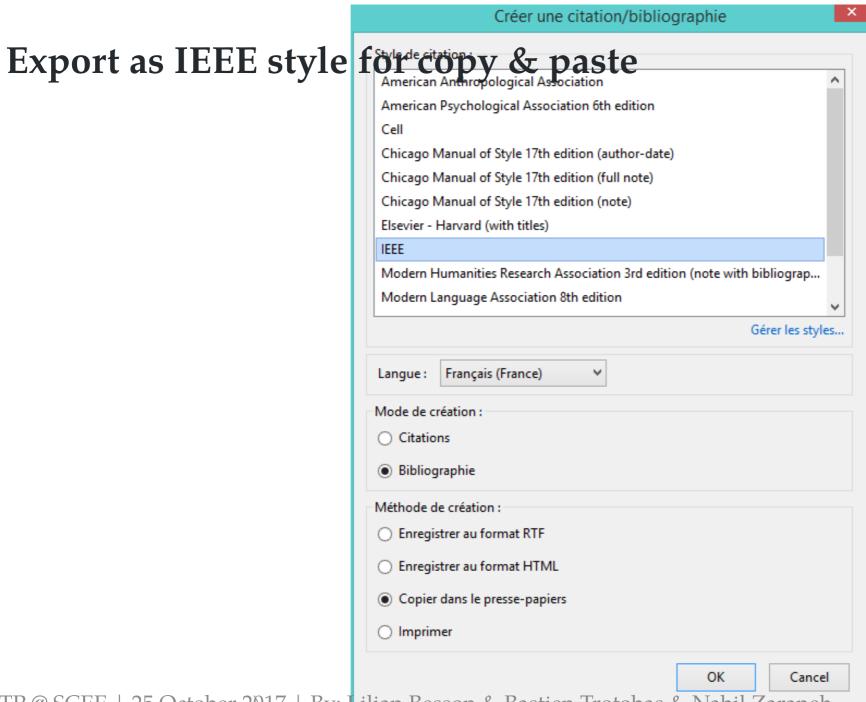


Step 4: Add references to your documents

- Application plugins to quick reference insertions
 - JabRef: Emacs, Lyk, TeXstudio, Vim...
 - Zotero: LibreOffice, Word...
- Export a list of references as
 - *BibTex* and other *LaTeX* formats
 - IEEE style and other ordinary styles for copy & paste

Export as *BibTex*

```
@incollection{goos_globally_2003,
        address = {Berlin, Heidelberg},
        title = {Globally {Asynchronous} {Locally} {Synchronous} {FPGA} {Architectures
        volume = \{2778\},
        isbn = \{978-3-540-40822-2\ 978-3-540-45234-8\},
        url = \{\text{http://link.springer.com/10.1007/978-3-540-45234-8_35}\},
        abstract = {Globally Asynchronous Locally Synchronous (GALS) Systems have prov
        language = {en},
        urldate = \{2018-09-12\},
        booktitle = {Field {Programmable} {Logic} and {Application}},
        publisher = {Springer Berlin Heidelberg},
        author = {Royal, Andrew and Cheung, Peter Y. K•},
        editor = {Goos, Gerhard and Hartmanis, Juris and van Leeuwen, Jan and Y. K. Ch
        year = \{2003\},\
        doi = \{10.1007/978-3-540-45234-8 \ 35\},\
        keywords = {Micropipeline, Muller C-element},
        pages = \{355 - 364\},
        file = {Royal et Cheung - 2003 - Globally Asynchronous Locally Synchronous FPG
```



Output

```
[1] Q. Wei, L. Liu, G. Peng, S. Yin, et S. Wei,
« Efficient and Flexible VLSI Architecture
for Soft-Output Massive MIMO Detector », in
Proceedings of Information Science and Cloud
Computing — PoS(ISCC 2017), Guangzhou, China,
2018, p. 055.

[2] B. Yin, M. Wu, J. R. Cavallaro, et C. Studer,
« VLSI design of large-scale soft-output MIMO
detection using conjugate gradients », in 2015
IEEE International Symposium on Circuits and
Systems (ISCAS), Lisbon, Portugal, 2015, p. 1498-1501.
```

Tips & tricks

- Save all papers that you read.
- Save also usefull web pages, newspaper articles...
 - Dont forget to add few information about the content
- A few minutes to lose now but hours to save later.

Conclusion (1/3)

Sum-up

- We showed you techniques to look for new references, and to find and download the PDF (*legally*)
- We showed you some softwares to manage your bibliography

Pointers

- \hookrightarrow scholar.google.com
- → archives-ouvertes.fr & arxiv.org
- → duckduckgo.com

 ▼
- \hookrightarrow zotero.org and jabref.org

Conclusion (2/3)

Next GouTP @ SCEE

• Any request or suggestion ?

We need participants!

F By you? Any idea is welcome!

Contact us if you want to do a GouTP!

Conclusion (3/3)



Your mission, if you accept it... 💥

- 1. Padawan level: be smart about how you look for new references.
- 2. Jedi level: organize and backup your references and BibTeX files!
- 3. *Master level*: publish so many papers that your name will be in the BibTeX files of half the planet (*yes we can!*).