EPI sciences
revues en accès libre

Episciences, open access overlay journals

Masterclass: Open Science and Scientific Publishing

14.06.2023

Céline Barthonnat, CCSD
Publishing Officer Episciences

MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR ET DE LA RECHERCHE
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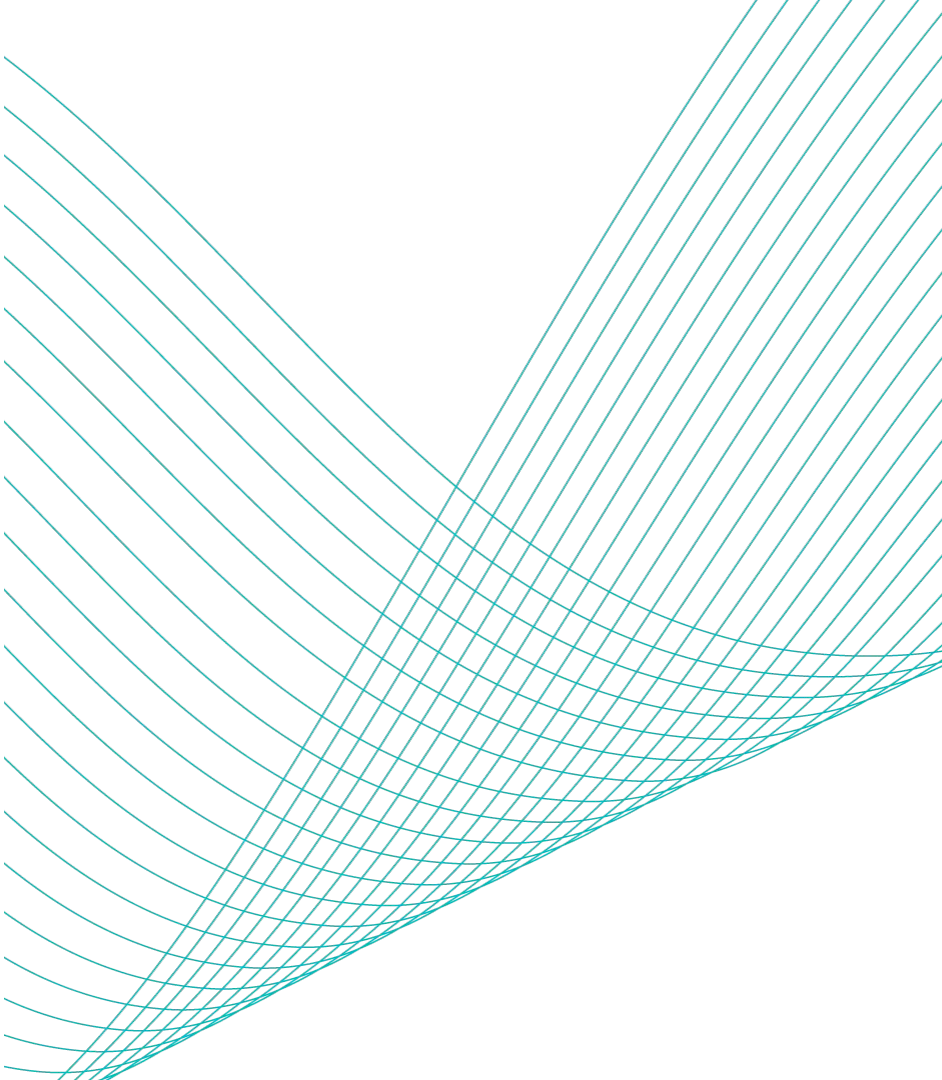
CCSD
Centre pour la Communication Scientifique Directe

01

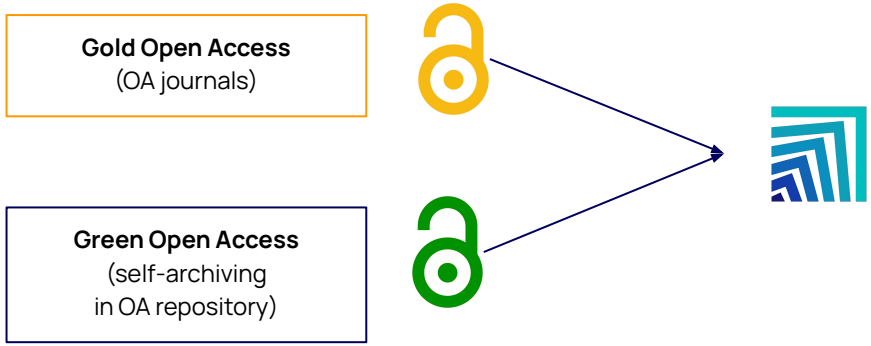
What is Episciences?



Episciences

Platform for publishing OA scientific journals

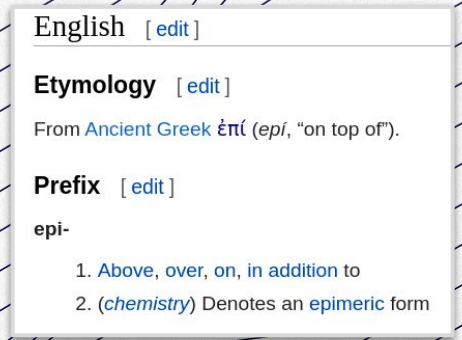
- Any disciplines
- New or flipping journals
- Diamond open access (free to both authors and readers)



An overlay (epi) journal model

- Operating on top of OA repositories e.g. HAL, arXiv, Zenodo, …
- Peer-review preprints:
  - single blind review
  - open peer review
- All versions are always available online:
  - During the whole publication process;
  - If the journals disappears or moves;
  - Updates are still possible on journal/archive.

The idea was proposed to the CCSD in 2003
by Professor Jean-Pierre Demailly, a mathematician.


English [edit]

Etymology [edit]

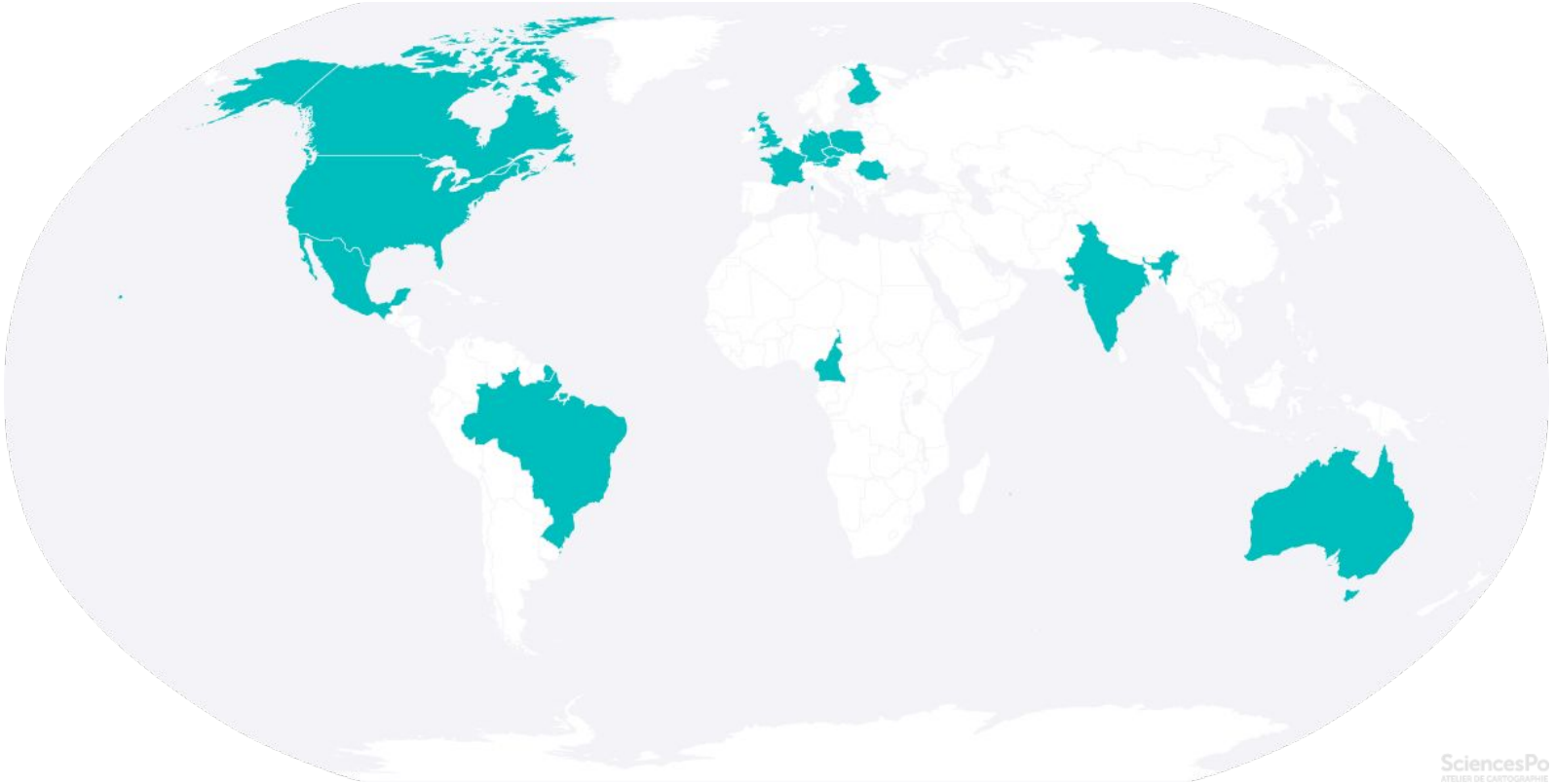
From Ancient Greek ἐπί (*epí*, "on top of").

Prefix [edit]

epi-

1. Above, over, on, in addition to
2. (*chemistry*) Denotes an epimeric form

https://en.wiktionary.org/wiki/epi-#Etymology


SciencesPo
ATELIER DE CARTOGRAPHIE

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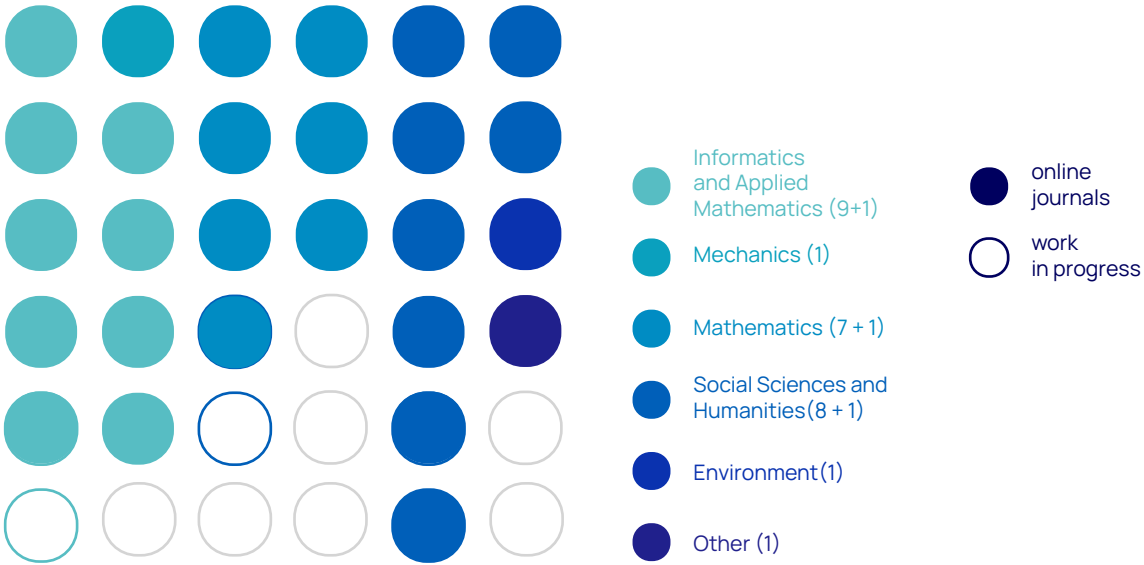
journals on Episciences (14/06/2023)

Journals by field and status



5

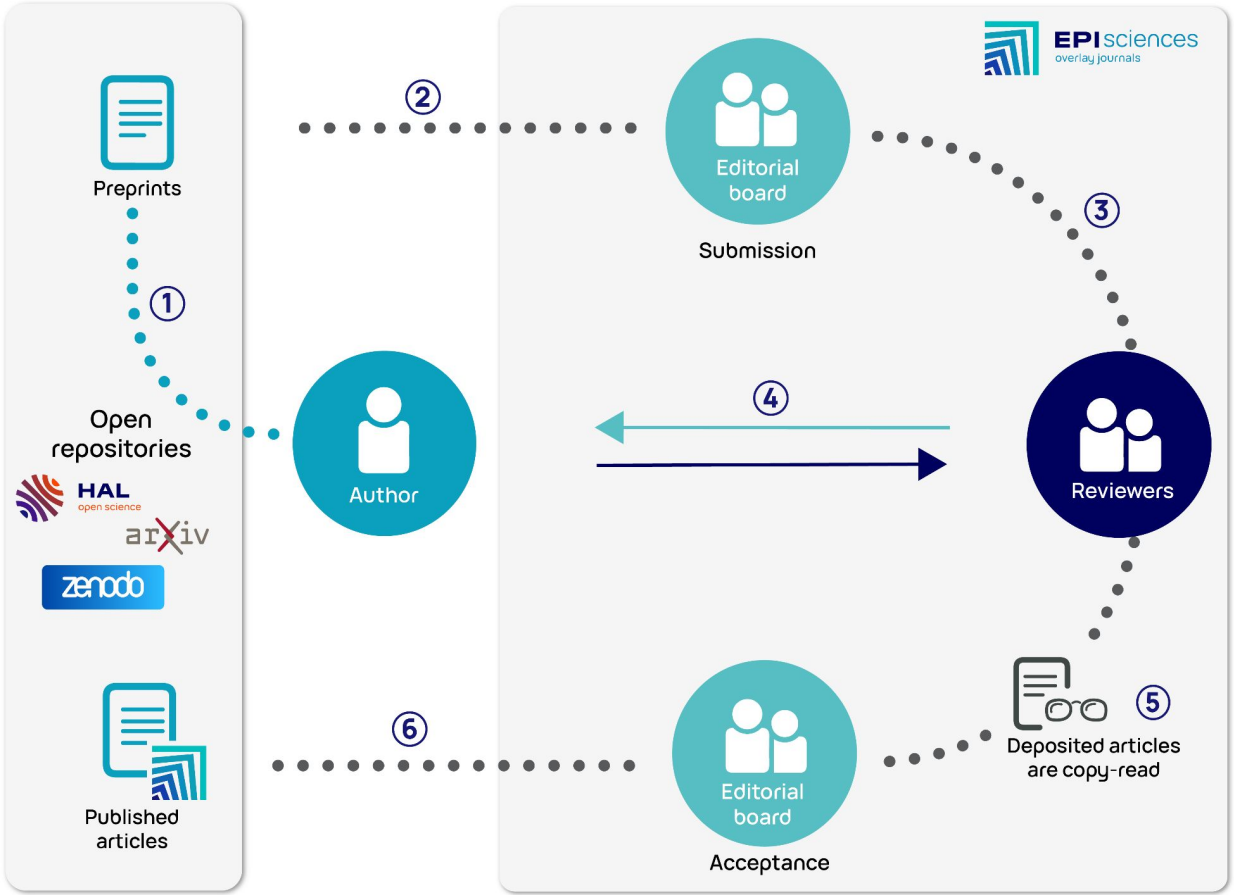
new journals in 2022/2023:

- *Les Cahiers Scientifiques du Transport*
- *Electronic Notes in Theoretical Informatics and Computer Science* (Entics)
- *Archéologies. Sociétés, réseaux, matériaux*
- *Partenariat soin patient analyses*
- *Recherche en Didactique des Mathématiques (RDM)*

02

Functioning

Workflow


Preprints
1
Open repositories
HAL open science
arXiv
zenodo
Published articles
Author
2
Editorial board
Submission
3
4
Reviewers
5
Deposited articles are copy-read
6
Editorial board
Acceptance
EPIsciences overlay journals

Episciences organisation

- **Steering Committee**
  reviews general platform orientations and epi-committees

- **Epi-committees**
  select new journals in their disciplines:
  - EpiIAM;
  - EpiMaths;
  - EpiSSH.

- **Editorials Committees** organise:
  - evaluation and scientific discussion;
  - peer-reviewing;
  - copy-editing;
  - publication.

Episciences in figures

June 2023

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support
and editorial assistance staff

CCSD	Head of the platform	Raphaël Tournoy
	Developers	Julien Charles, Djamel Chibane
	Publishing Officer	Céline Barthonnat
Inria	Scientific Information and Publishing Department (Informatics and Applied Mathematics)	Hélène Lowinger Emmanuelle Perrin Catherine Scotton
if INSTITUT FOURIER	Research engineer (Mathematics)	Ariane Rolland

5 570

Publications

11 832

Users

Episciences for the scientific communities

Reducing costs

. No subscriptions, no APC, free hosting and support

. Publish at a reasonable cost (shared infrastructure, hosting and preservation by repositories)

. Reinvesting public money in a public service for scientific dissemination

Adding value to AO

. Validation/certification of preprints

Reduce time to access publications

. Preprints are immediately available

. Stay online, even if refused

Episciences for the scientific communities

Traceability

. Track the evolution of document versions, even after publication

. Consider publications as a conversation flow, beyond a simple published version

Open by design

. Compliant with open access mandates

Allow authors to retain their rights

. CC licences, non-exclusive distribution rights to journals

Episciences for the scientific communities

Long term access

. Maintain control over access to publications/ evaluations

. Maintain access to content even if the journal ceased publication

Scientific independence

. Allow scientific communities to own their journals and the data created by their activity

. To have a scientific publication policy independent of a commercial logic

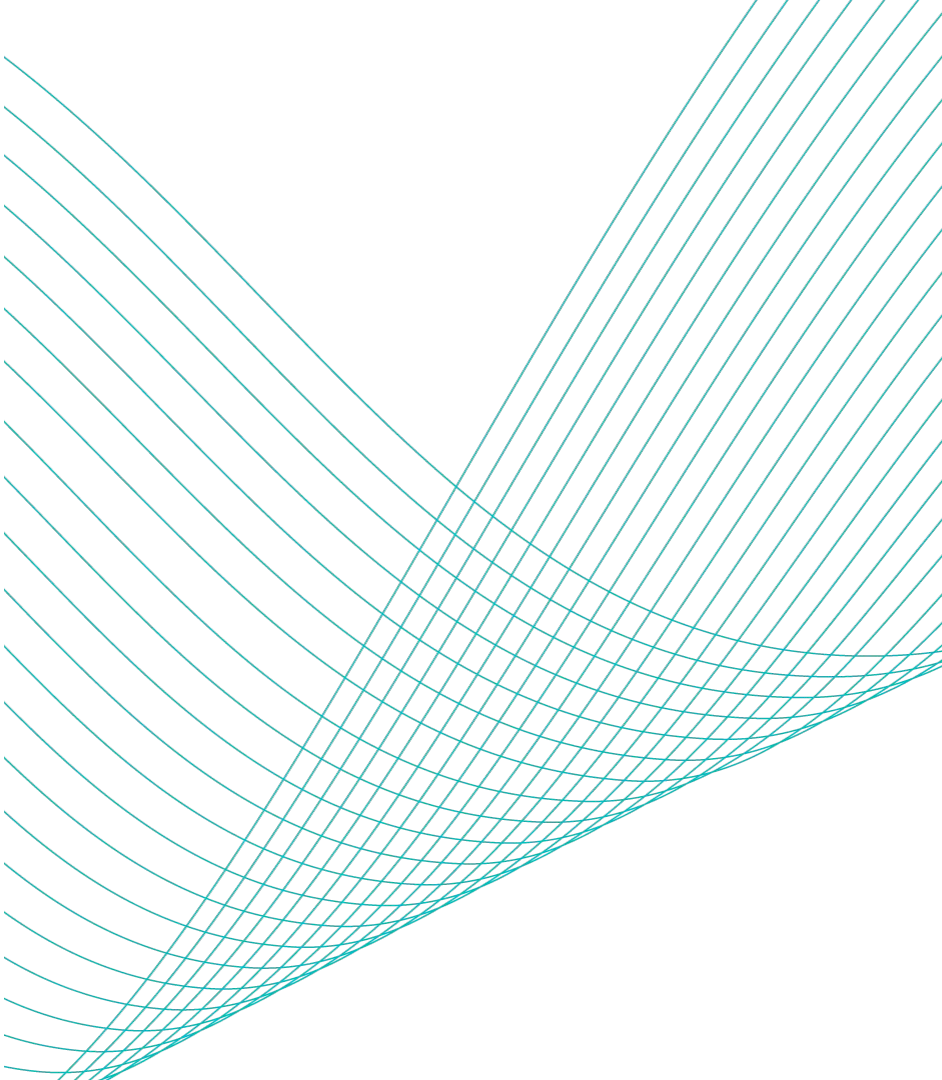
FAIR & Bibliodiversity

. Meets FAIR principles (Findable, Accessible, Interoperable, Reusable)

. More bibliodiversity

03

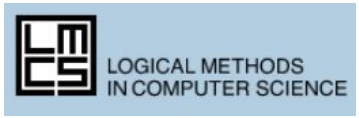
How to use Episciences

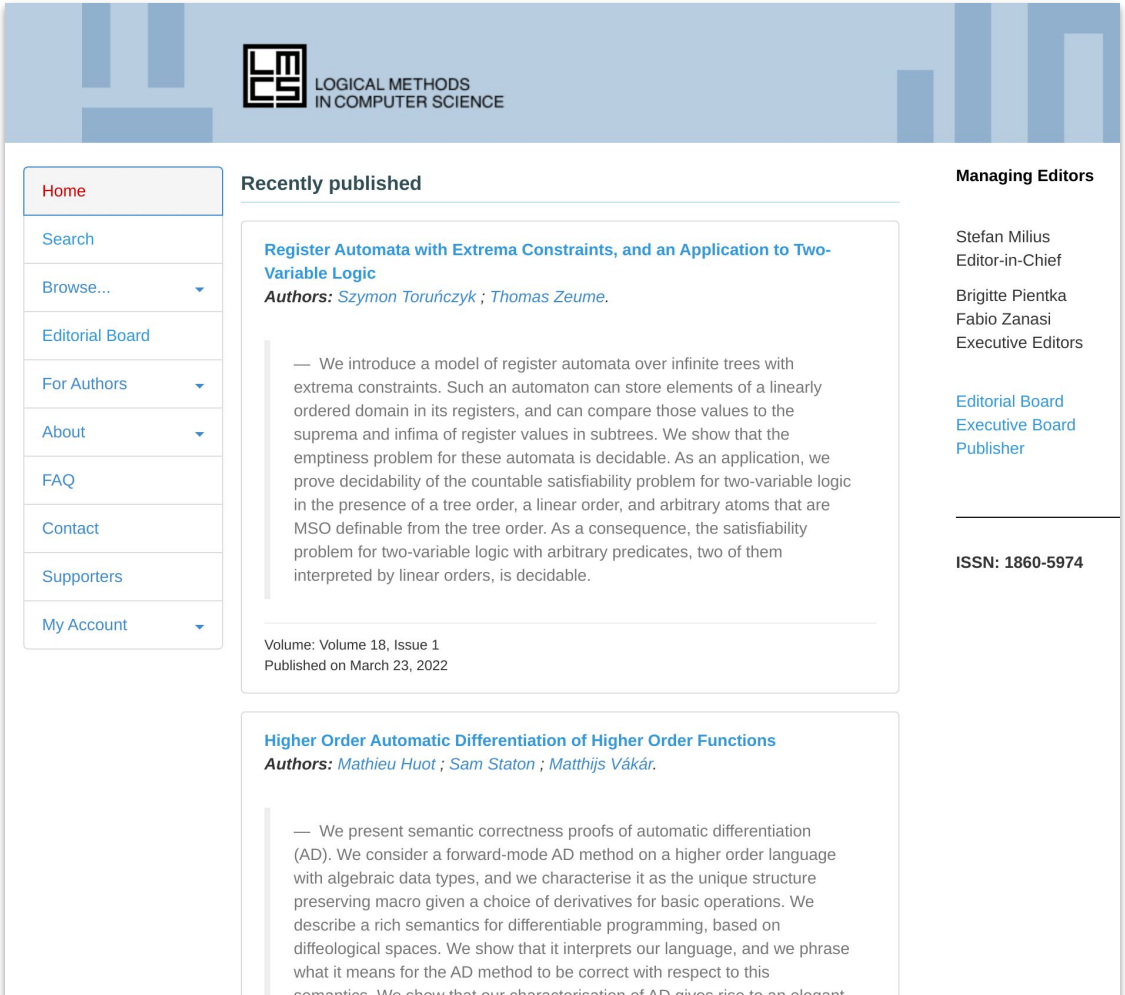


Each journals has its own domain name

example:

https://lmcs.episciences.org/





#1 Submit your preprint

On a repository, e.g. arXiv:

https://arxiv.org/abs/1802.05734v1

Mathematics > Logic

[Submitted on 15 Feb 2018 (this version), latest version 23 Apr 2020 (v10)]

Writability and reachability for alpha-tape infinite time Turing machines

Merlin Carl, Benjamin Rin, Philipp Schlicht

Infinite time Turing machines with tape length α (denoted T_α) were introduced by Rin to strengthen the ω-tape machines of Hamkins and Kidder. It is known that for some countable ordinals α, these machines' properties are quite different from those of the ω-tape case. We answer a question of Rin about the size of the least ordinal δ such that not all cells are halting positions of T_δ by giving various characterizations of δ. For instance, it is the least ordinal with any of the properties (a) there is a T_α-writable real that is not T_δ-writable for some $\alpha < \delta$, (b) δ is uncountable in L_{λ_δ}, or (c) δ is a regular cardinal in L_{λ_δ}, where λ_δ denotes the supremum of ordinals with a T_δ-writable code of length δ. We further use these characterizations together with an analogue to Welch's submodel characterization of the ordinals λ, ζ and Σ, to show that δ is closed under the function $\alpha \mapsto \Sigma_\alpha$, where Σ_α denotes the supremum of the ordinals with a T_α-accidentally writable code of length α.

Subjects: **Logic (math.LO)**; Logic in Computer Science (cs.LO)
Cite as: arXiv:1802.05734 **[math.LO]**
(or arXiv:1802.05734v1 **[math.LO]** for this version)

Submission history

From: Philipp Schlicht [view email]
[v1] Thu, 15 Feb 2018 19:55:02 UTC (23 KB)

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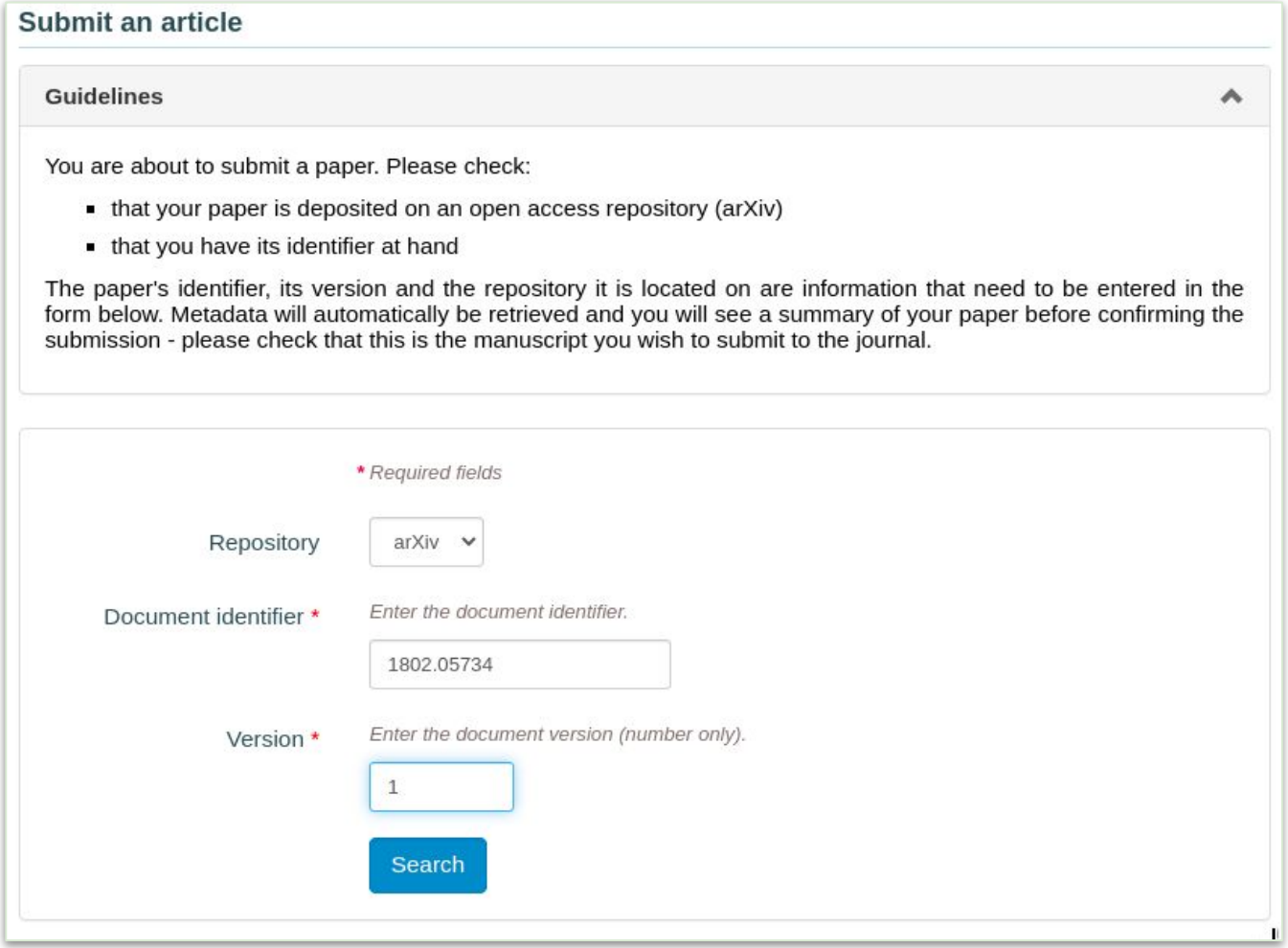
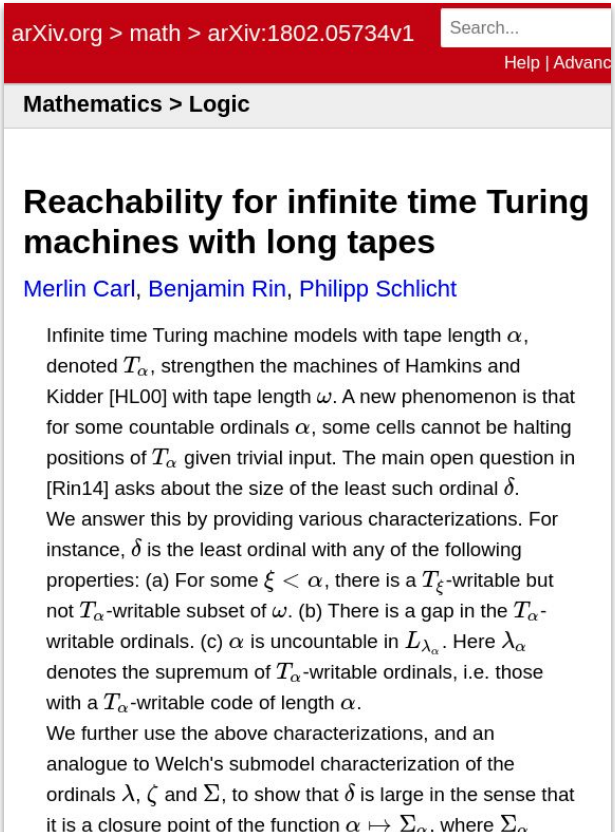
#2 Import your preprint on a journal

with your preprint ID:

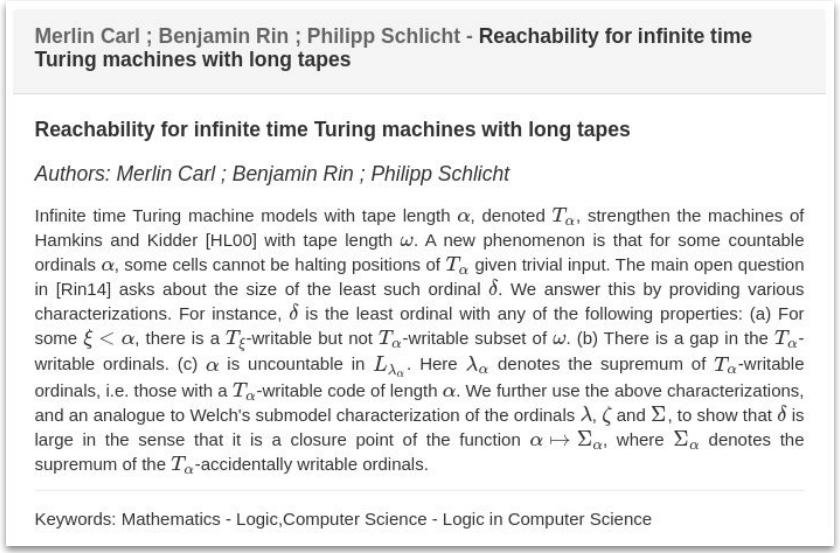
1802.05734v1



Metadata retrieved with arXiv's APIs



API



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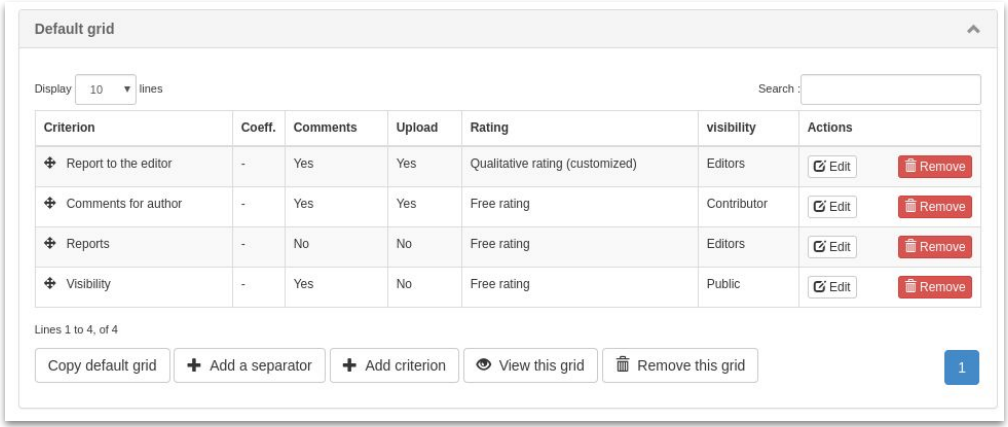
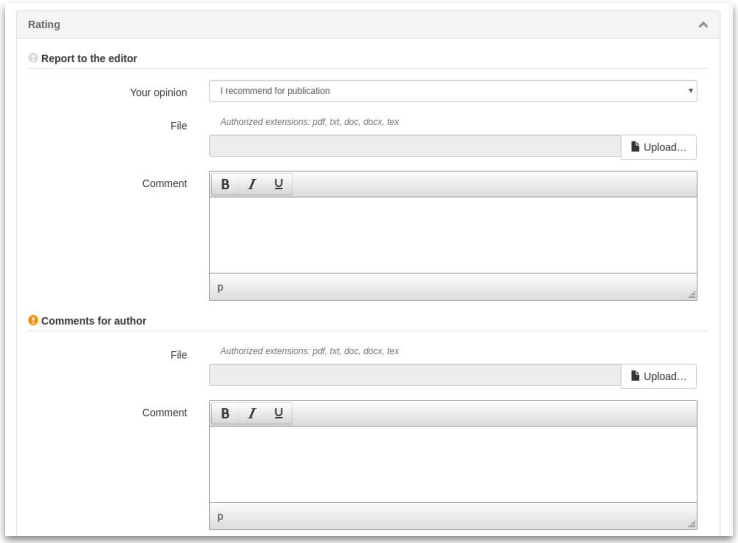
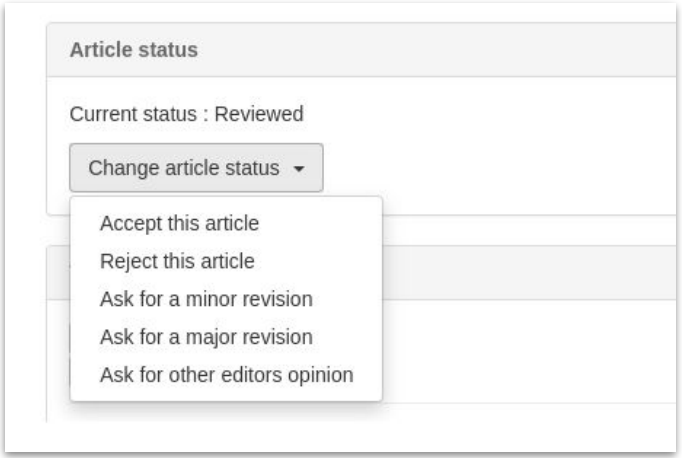
#3 Peer review based on journal's grid



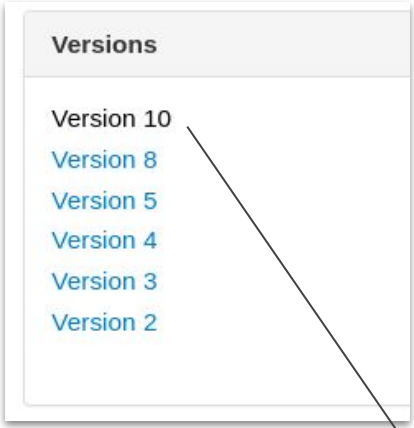




EPI sciences

Peer-review

- Multiple rounds of peer-review
- New improved versions
- Copy-editing



Reachability for Turing machines with long tapes

Merlin Carl, Benjamin Rin, Philipp Schlicht

Infinite time Turing machine models with tape length α, denoted T_α, strengthen the machines of Hamkins and Kidder [HL00] with tape length ω. A new phenomenon is that for some countable ordinals α, some cells cannot be halting positions of T_α given trivial input. The main open question in [Rin14] asks about the size of the least such ordinal δ.

We answer this by providing various characterizations. For instance, δ is the least ordinal with any of the following properties: (a) For some $\xi < \alpha$, there is a T_ξ-writable but not T_α-writable subset of ω. (b) There is a gap in the T_α-writable ordinals. (c) α is uncountable in L_{λ_α}. Here λ_α denotes the supremum of T_α-writable ordinals, i.e. those with a T_α-writable code of length α.

We further use the above characterizations, and an analogue to Welch's submodel characterization of the ordinals λ, ζ and Σ, to show that δ is large in the sense that it is a closure point of the function $\alpha \mapsto \Sigma_\alpha$, where Σ_α denotes the supremum of the T_α-accidentally writable ordinals.

Subjects: **Logic (math.LO)**; Logic in Computer Science (cs.LO)
Cite as: arXiv:1802.05734 **[math.LO]**
(or arXiv:1802.05734v5 **[math.LO]** for this version)

Submission history

From: Philipp Schlicht [view email]
[v1] Thu, 15 Feb 2018 19:55:02 UTC (23 KB)
[v2] Wed, 21 Feb 2018 07:58:12 UTC (23 KB)
[v3] Mon, 21 Jan 2019 17:35:28 UTC (28 KB)
[v4] Thu, 23 May 2019 11:53:38 UTC (29 KB)
[v5] Thu, 5 Dec 2019 20:00:10 UTC (31 KB)
[v6] Tue, 10 Dec 2019 07:28:22 UTC (31 KB)
[v7] Mon, 9 Mar 2020 08:05:29 UTC (31 KB)
[v8] Wed, 8 Apr 2020 14:35:32 UTC (39 KB)
[v9] Mon, 20 Apr 2020 20:35:58 UTC (41 KB)
[v10] Thu, 23 Apr 2020 09:08:19 UTC (41 KB)

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#4 Journal Layout

Merlin Carl ; Benjamin Rin ; Philipp Schlic

lmcs:4444 - Logical Methods in Co
https://doi.org/10.23638/LMCS-16(2:2)2020

Reachability for infinite time Turing machi

Authors: Merlin Carl ; Benjamin Rin ; Philipp

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https://doi.org/10.23638/LMCS-16(2:2)2020
Source : oai:arXiv.org:1802.05734
Volume: Volume 16, Issue 2
Published on: April 24, 2020
Submitted on: April 16, 2018
Keywords: Mathematics - Logic,Computer Science -

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Logical Methods in Computer Science
Volume 16, Issue 2, 2020, pp. 2:1–2:16
https://lmcs.episciences.org/

Submitted Apr. 16, 2018
Published Apr. 24, 2020

REACHABILITY FOR INFINITE TIME TURING MACHINES WITH LONG TAPES

MERLIN CARL, BENJAMIN RIN, AND PHILIPP SCHLICHT

Fachbereich Mathematik und Statistik, University of Konstanz, 78457 Konstanz, Germany, and Europa-Universität Flensburg, Institut für mathematische, naturwissenschaftliche und technische Bildung, Abteilung für Mathematik und ihre Didaktik, Auf dem Campus 1b, 24943 Flensburg, Germany
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e-mail address: b.g.rin@uu.nl

Department of Computer Science, The University of Auckland, Private Bag 92019, Auckland 1142, New Zealand, and School of Mathematics, University of Bristol, Fry Building. Woodland Road, Bristol, BS8 1UG, UK
e-mail address: philipp.schlicht@bristol.ac.uk

Abstract. Infinite time Turing machine models with tape length α, denoted T_α, strengthen the machines of Hamkins and Kidder with tape length ω. A new phenomenon is that for some countable ordinals α, some cells cannot be halting positions of T_α given trivial input. The main open question in a paper of Rin from 2014 asks about the size of the least such ordinal δ.

We answer this by providing various characterizations. For instance, δ is the least ordinal with any of the following properties:

- For some $\xi < \alpha$, there is a T_ξ-writable but not T_α-writable subset of ω.
- There is a gap in the T_α-writable ordinals.
- α is uncountable in L_{λ_α}.

Here λ_α denotes the supremum of T_α-writable ordinals, i.e. those with a T_α-writable code of length α.

We further use the above characterizations, and an analogue to Welch's submodel characterization of the ordinals λ, ζ and Σ, to show that δ is large in the sense that it is a closure point of the function $\alpha \mapsto \Sigma_\alpha$, where Σ_α denotes the supremum of the T_α-accidentally writable ordinals.

#5 Publication: one Version of Record

Reachability for infinite time Turing m with long tapes

Merlin Carl, Benjamin Rin, Philipp Schlicht

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Subjects: **Logic (math.LO)**; Logic in Computer Science (cs.LO)
Journal reference: Logical Methods in Computer Science, Volume 16, Issue 2 (A lmcs:6429
DOI: 10.23638/LMCS-16(2:2)2020
Cite as: arXiv:1802.05734 **[math.LO]**
(or arXiv:1802.05734v10 **[math.LO]** for this version)

04

Services

Creation of a personalised site

. a personal website for each journal
. configuration: menu, indexes, guidelines, editorial boards and policies, etc.
. DOI for each published document
. adapted graphic charter (stylesheet) with a header

Technical support

. bilingual documentation (English/French)
. technical support by email and GitHub
. specific technical support by Inria (epiIAM), the Institut Fourier (epiMaths) and the CCSD (epiSSH)

Help with the publication and distribution

. ISSN
. Creative Commons licences
. copyright assignment contract
. OA publishing requirements
. advice and assistance in applying for institutional support
. linking with service providers for copy-editing

Referencing

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. interdisciplinary databases (DOAJ, Mir@bel, Sherpa Romeo, etc.)

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