



Céline Barthonnat  
Raphaël Tournoy



# Episciences

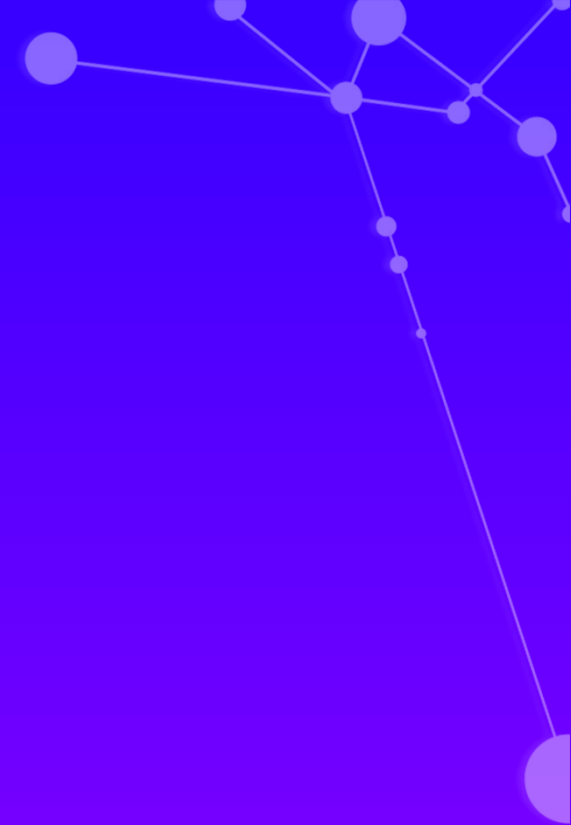
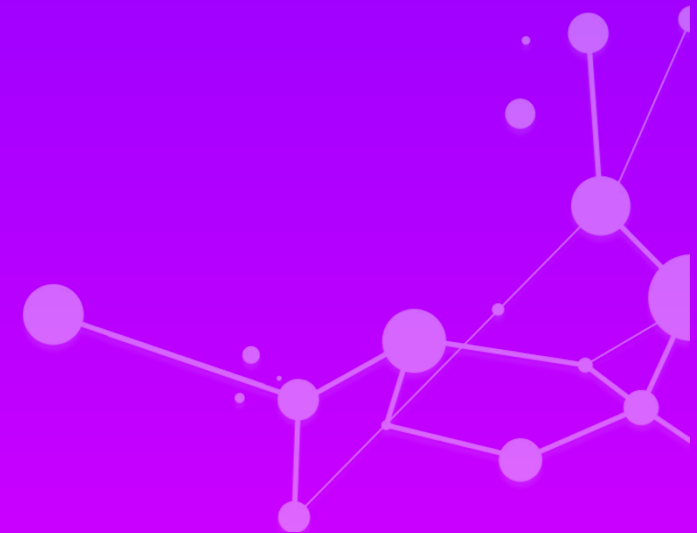
Diamond open access publishing  
with Overlay journals

**CCSD** ● ■ ◆  
Centre pour la Communication  
Scientifique Directe



# What is Episciences?

- Platform for publishing OA scientific journals
  - Any disciplines
  - New or flipping journals
- Scientific communities can create and operate high-quality OA journals
- Diamond open access (free to both authors and readers)
  - A mix of:
    - Gold Open Access (OA journals)
    - Green Open Access (self-archiving in OA repository)



# 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 on 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]

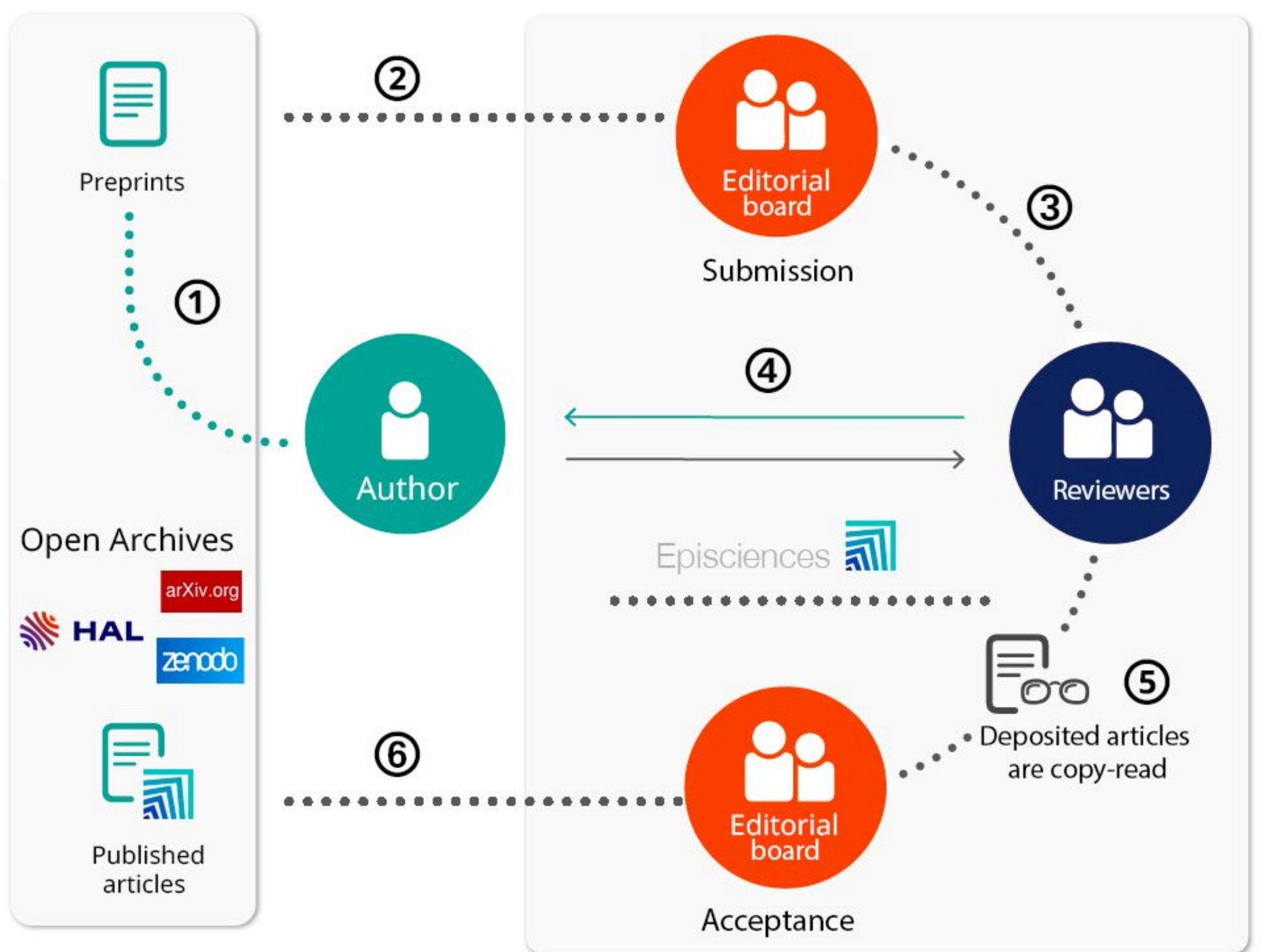
From **Ancient Greek** ἐπί (*epí*, “on top of”).

**Prefix** [edit]

epi-

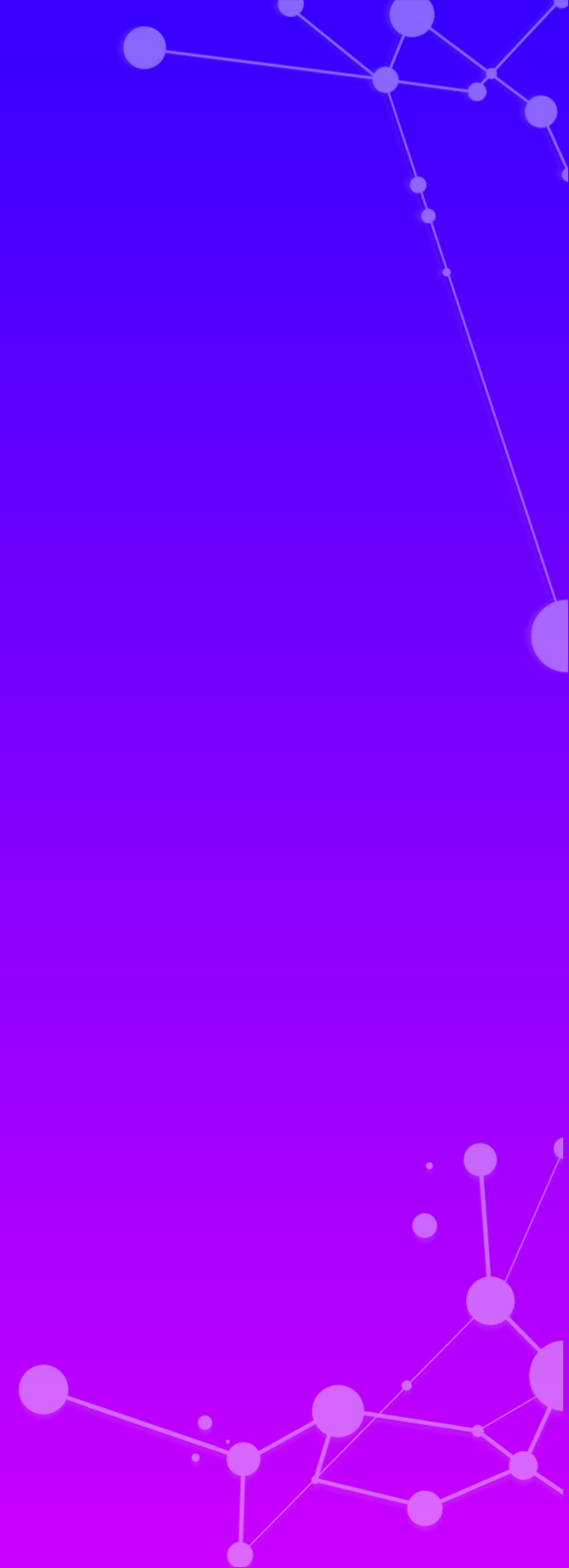
1. Above, over, on, in addition to
2. (*chemistry*) Denotes an **epimeric** form

# Workflow



# Episciences organisation

- The **steering committee** review general platform orientations and epi-committees
- **Epi-committees** select new journals in their disciplines
  - EpiAM
  - EpiMaths
  - EpiSSH
- **Editorials Committees** organise
  - evaluation and scientific discussion
  - peer-reviewing
  - copy-editing
  - publication



# 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 (HR) 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

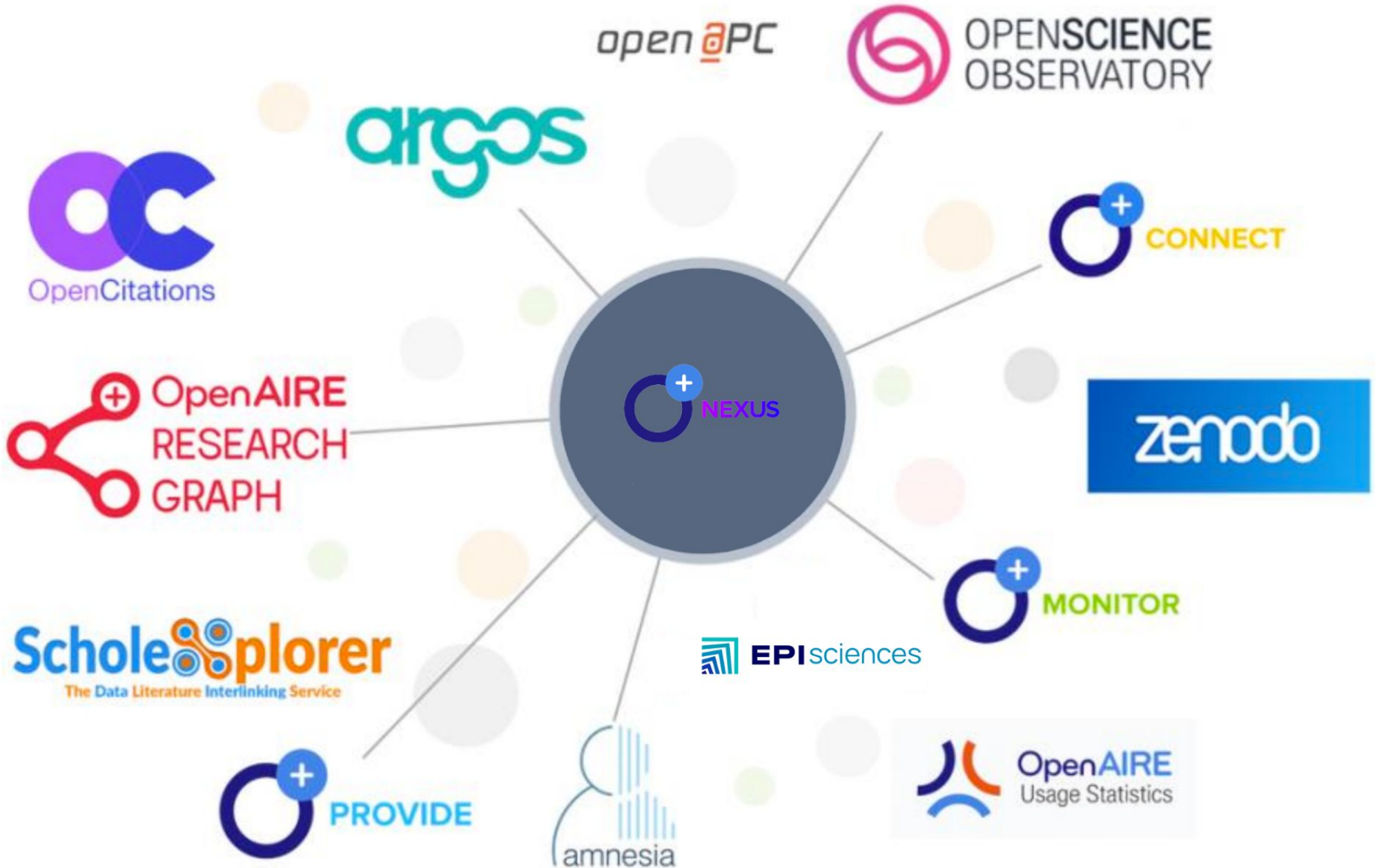
## Scientific independence

- 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
- More bibliodiversity

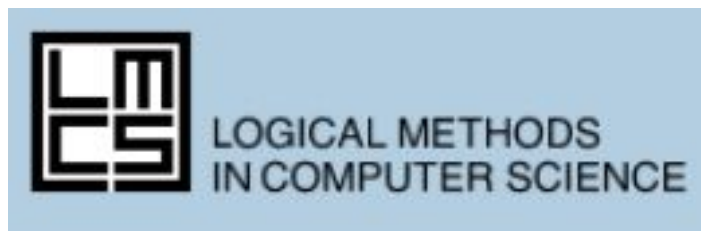
# Episciences - OpenAIRE Nexus



# How to use

# How to use Episciences

- Each journals has its own domain name  
Example with:



Hosted on:

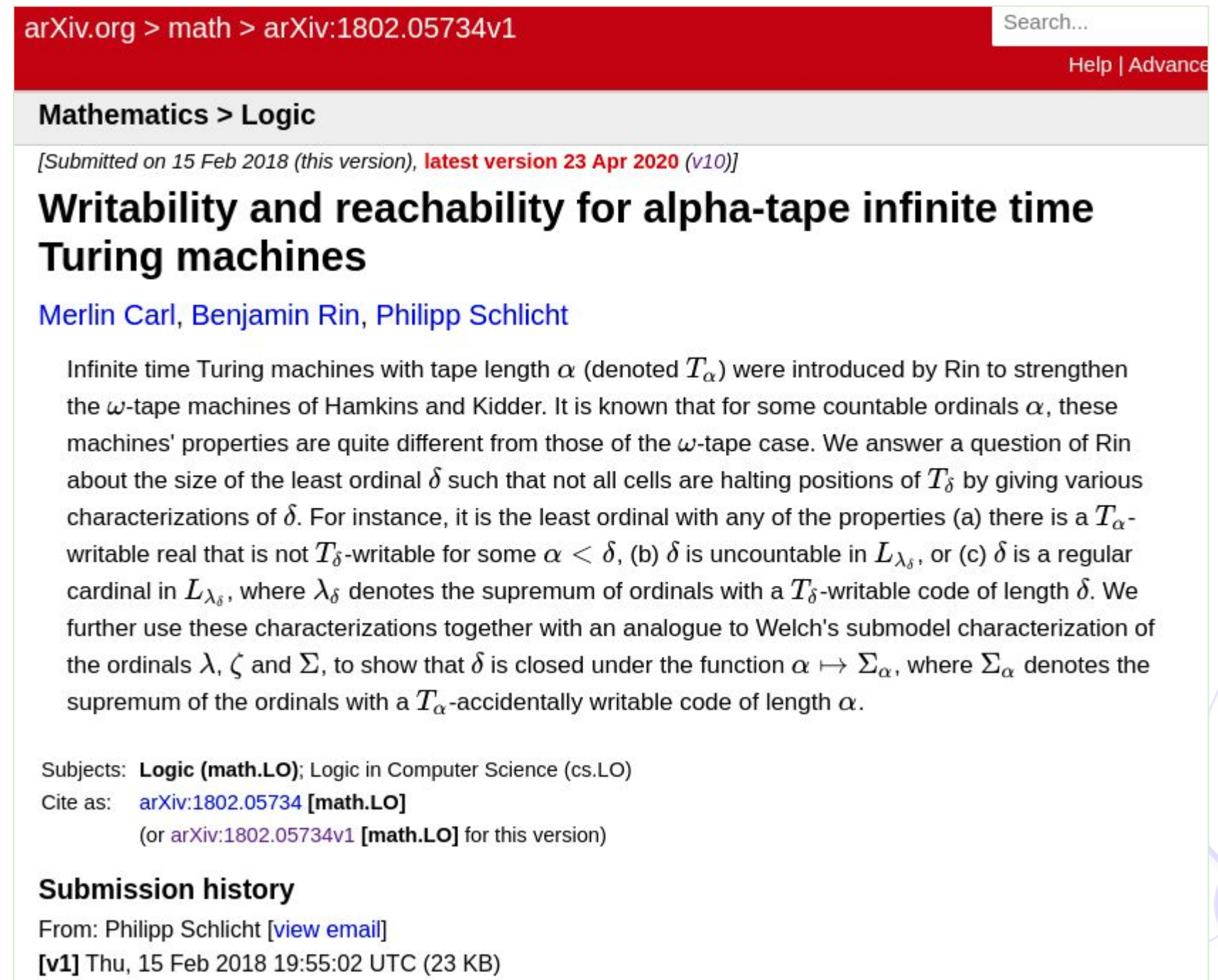
<https://lmcs.episciences.org/>

The screenshot shows the LMCS website interface. At the top, there is a navigation menu with links: Home, Search, Browse..., Editorial Board, For Authors, About, FAQ, Contact, Supporters, and My Account. The main content area is titled "Recently published" and features two article previews. The first article is "Register Automata with Extrema Constraints, and an Application to Two-Variable Logic" by Szymon Toruńczyk and Thomas Zeume. The second article is "Higher Order Automatic Differentiation of Higher Order Functions" by Mathieu Huot, Sam Staton, and Matthijs Vákár. On the right side, there is a section for "Managing Editors" listing Stefan Milius (Editor-in-Chief), Brigitte Pientka, and Fabio Zanasi (Executive Editors). Below this, there are links for "Editorial Board", "Executive Board", and "Publisher". At the bottom right, the ISSN number 1860-5974 is displayed.

# 1. Submit your preprint

On a repository, e.g. arXiv:

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



arXiv.org > math > arXiv:1802.05734v1 Search...  
Help | Advance

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

Subjects: **Logic (math.LO)**; Logic in Computer Science (cs.LO)  
Cite as: [arXiv:1802.05734](https://arxiv.org/abs/1802.05734) [math.LO]  
(or [arXiv:1802.05734v1](https://arxiv.org/abs/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)

# 2. Import your preprint on a journal

with your preprint ID:

1802.05734v1

On a journal, eg LMCS for this example

Submit an article

**Guidelines**

You are about to submit a paper. Please check:

- that your paper is deposited on an open access repository (arXiv)
- that you have its identifier at hand

The paper's identifier, its version and the repository it is located on are information that need to be entered in the form below. Metadata will automatically be retrieved and you will see a summary of your paper before confirming the submission - please check that this is the manuscript you wish to submit to the journal.

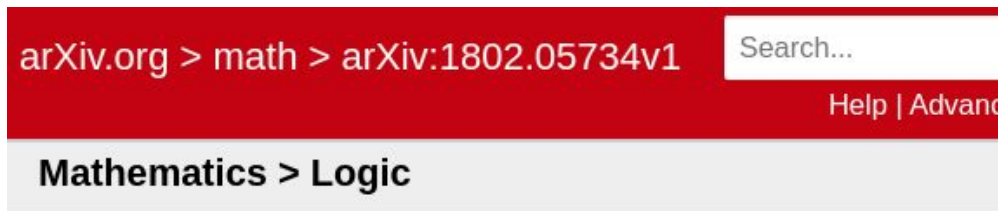
*\* Required fields*

Repository

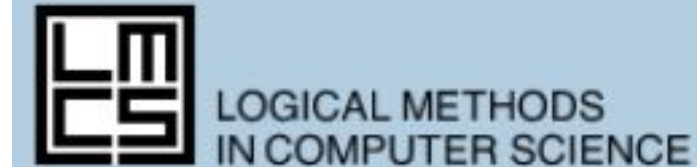
Document identifier \* *Enter the document identifier.*

Version \* *Enter the document version (number only).*

# Metadata retrieved with arXiv's APIs



API



## Reachability for infinite time Turing machines with long tapes

Merlin Carl, Benjamin Rin, Philipp Schlicht

Infinite time Turing machine models with tape length  $\alpha$ , denoted  $T_\alpha$ , strengthen the machines of Hamkins and Kidder [HL00] with tape length  $\omega$ . A new phenomenon is that for some countable ordinals  $\alpha$ , some cells cannot be halting positions of  $T_\alpha$  given trivial input. The main open question in [Rin14] asks about the size of the least such ordinal  $\delta$ . We answer this by providing various characterizations. For instance,  $\delta$  is the least ordinal with any of the following properties: (a) For some  $\xi < \alpha$ , there is a  $T_\xi$ -writable but not  $T_\alpha$ -writable subset of  $\omega$ . (b) There is a gap in the  $T_\alpha$ -writable ordinals. (c)  $\alpha$  is uncountable in  $L_{\lambda_\alpha}$ . Here  $\lambda_\alpha$  denotes the supremum of  $T_\alpha$ -writable ordinals, i.e. those with a  $T_\alpha$ -writable code of length  $\alpha$ .

We further use the above characterizations, and an analogue to Welch's submodel characterization of the ordinals  $\lambda$ ,  $\zeta$  and  $\Sigma$ , to show that  $\delta$  is large in the sense that it is a closure point of the function  $\alpha \mapsto \Sigma_\alpha$ , where  $\Sigma_\alpha$  denotes the supremum of the  $T_\alpha$ -accidentally writable ordinals.

Merlin Carl ; Benjamin Rin ; Philipp Schlicht - Reachability for infinite time Turing machines with long tapes

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Keywords: Mathematics - Logic, Computer Science - Logic in Computer Science

# 3. Peer review based on journal's grid

Default grid

Display 10 lines Search :

Criterion	Coeff.	Comments	Upload	Rating	visibility	Actions
Report to the editor	-	Yes	Yes	Qualitative rating (customized)	Editors	Edit Remove
Comments for author	-	Yes	Yes	Free rating	Contributor	Edit Remove
Reports	-	No	No	Free rating	Editors	Edit Remove
Visibility	-	Yes	No	Free rating	Public	Edit Remove

Lines 1 to 4, of 4

Copy default grid + Add a separator + Add criterion View this grid Remove this grid

Rating

Report to the editor

Your opinion: I recommend for publication

File: Authorized extensions: pdf, txt, doc, docx, tex Upload...

Comment: B I U

Comments for author

File: Authorized extensions: pdf, txt, doc, docx, tex Upload...

Comment: B I U

Article status

Current status : Reviewed

Change article status

- Accept this article
- Reject this article
- Ask for a minor revision
- Ask for a major revision
- Ask for other editors opinion



# Peer-review

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

Versions
Version 10
Version 8
Version 5
Version 4
Version 3
Version 2

## Reachability for Turing machines with long tapes

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Subjects: **Logic (math.LO)**; Logic in Computer Science (cs.LO)

Cite as: [arXiv:1802.05734](https://arxiv.org/abs/1802.05734) [math.LO]

(or [arXiv:1802.05734v5](https://arxiv.org/abs/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)

# 4. Journal Layout

Merlin Carl ; Benjamin Rin ; Philipp Schlicht - Reachability for infinite time Turing machines with long tapes

lmcs:4444 - Logical Methods in Computer Science, April 24, 2020, Volume 16, Issue 2 -   
[https://doi.org/10.23638/LMCS-16\(2:2\)2020](https://doi.org/10.23638/LMCS-16(2:2)2020)

## Reachability for infinite time Turing machines with long tapes

Authors: Merlin Carl ; Benjamin Rin ; Philipp Schlicht

Infinite time Turing machine models with tape length  $\alpha$ , denoted  $T_\alpha$ , strengthen the machines of Hamkins and Kidder [HL00] with tape length  $\omega$ . A new phenomenon is that for some countable ordinals  $\alpha$ , some cells cannot be halting positions of  $T_\alpha$  given trivial input. The main open question in [Rin14] asks about the size of the least such ordinal  $\delta$ . We answer this by providing various characterizations. For instance,  $\delta$  is the least ordinal with any of the following properties: (a) For some  $\xi < \alpha$ , there is a  $T_\xi$ -writable but not  $T_\alpha$ -writable subset of  $\omega$ . (b) There is a gap in the  $T_\alpha$ -writable ordinals. (c)  $\alpha$  is uncountable in  $L_{\lambda_\alpha}$ . Here  $\lambda_\alpha$  denotes the supremum of  $T_\alpha$ -writable ordinals, i.e. those with a  $T_\alpha$ -writable code of length  $\alpha$ . We further use the above characterizations, and an analogue to Welch's submodel characterization of the ordinals  $\lambda$ ,  $\zeta$  and  $\Sigma$ , to show that  $\delta$  is large in the sense that it is a closure point of the function  $\alpha \mapsto \Sigma_\alpha$ , where  $\Sigma_\alpha$  denotes the supremum of the  $T_\alpha$ -accidentally writable ordinals.

[https://doi.org/10.23638/LMCS-16\(2:2\)2020](https://doi.org/10.23638/LMCS-16(2:2)2020)

Source : [oai:arXiv.org:1802.05734](https://arxiv.org/abs/1802.05734)

Volume: Volume 16, Issue 2

Published on: April 24, 2020

Submitted on: April 16, 2018

Keywords: Mathematics - Logic, Computer Science - Logic in Computer Science

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 Consult the article webpage

## 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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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  $\alpha$ , denoted  $T_\alpha$ , strengthen the machines of Hamkins and Kidder with tape length  $\omega$ . A new phenomenon is that for some countable ordinals  $\alpha$ , some cells cannot be halting positions of  $T_\alpha$  given trivial input. The main open question in a paper of Rin from 2014 asks about the size of the least such ordinal  $\delta$ .

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

- For some  $\xi < \alpha$ , there is a  $T_\xi$ -writable but not  $T_\alpha$ -writable subset of  $\omega$ .
- There is a gap in the  $T_\alpha$ -writable ordinals.
- $\alpha$  is uncountable in  $L_{\lambda_\alpha}$ .

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Received by the editors April 12, 2021.

We would like to thank the anonymous referees for their helpful comments. This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 794020 (IMIC) for the third-listed author.

# 5. Publication: one Version Of Record

## Reachability for infinite time Turing machines with long tapes

Merlin Carl, Benjamin Rin, Philipp Schlicht

arXiv.org

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

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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 (April 24, 2020)  
Imcs:6429  
DOI: [10.23638/LMCS-16\(2:2\)2020](https://doi.org/10.23638/LMCS-16(2:2)2020)  
Cite as: [arXiv:1802.05734 \[math.LO\]](https://arxiv.org/abs/1802.05734)  
(or [arXiv:1802.05734v10 \[math.LO\]](https://arxiv.org/abs/1802.05734v10) for this version)

Carl, Merlin and Rin, Benjamin and Schlicht, Philipp - Reachability for infinite time Turing machines with long tapes

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Imcs:4444 - Logical Methods in Computer Science, April 24, 2020, Volume 16, Issue 2 - [https://doi.org/10.23638/LMCS-16\(2:2\)2020](https://doi.org/10.23638/LMCS-16(2:2)2020)

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### Article status

Current status: **Published**

# Services

# Episciences' associated services

1. Creation of a personalised site for each journal
2. Technical support
3. Help with the publication and distribution
4. Referencing

Questions & Answers



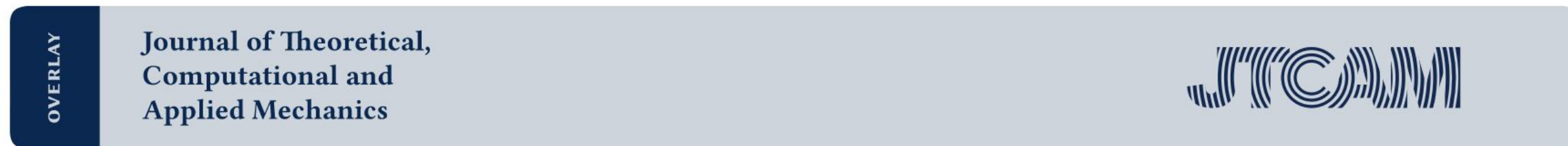
# Creation of a personalised site

- **22 journals** + Elpub Conference Proceedings
  - Informatics and Applied Mathematics (8);
  - Mathematics (7);
  - Social Sciences and Humanities (5);
  - Environment (1);
  - Mechanics (1): JTCAM—*Journal of Theoretical, Computational and Applied Mechanics*.
- **a personal website** for each journal
  - url: `journalname.episciences.org`
- **configuration**: menu, indexes, guidelines, editorial boards and policies, etc.
- **DOI** for each published document



# Creation of a personalised site

- adapted graphic charter (stylesheet) with a **header**

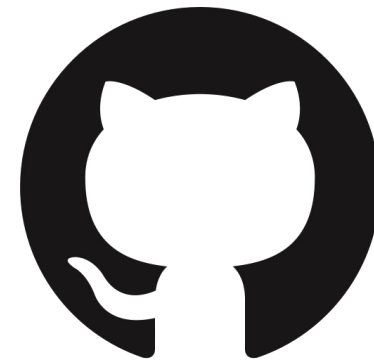
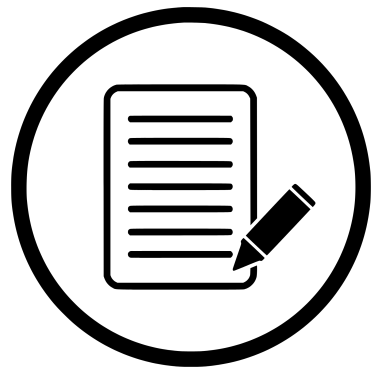


DIAMOND OPEN ACCESS



# Technical support

- **bilingual documentation** (English/French)
- technical support by **email** and **GitHub**
- specific technical support by Inria (epiAM) and the Institut Fourier (epiMaths)



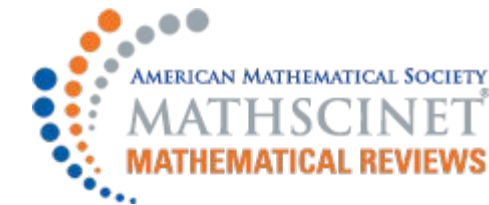


# Help with the publication and distribution

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



# Referencing



- GitHub
- [Platform software](#)
- [Platform API](#)
- [OAI-PMH](#)

- [Episciences - Home](#)
- Contact: [contact@episciences.org](mailto:contact@episciences.org)
- Support: [support@episciences.org](mailto:support@episciences.org)
- [Documentation](#)
- [Feedback](#)

THANK YOU

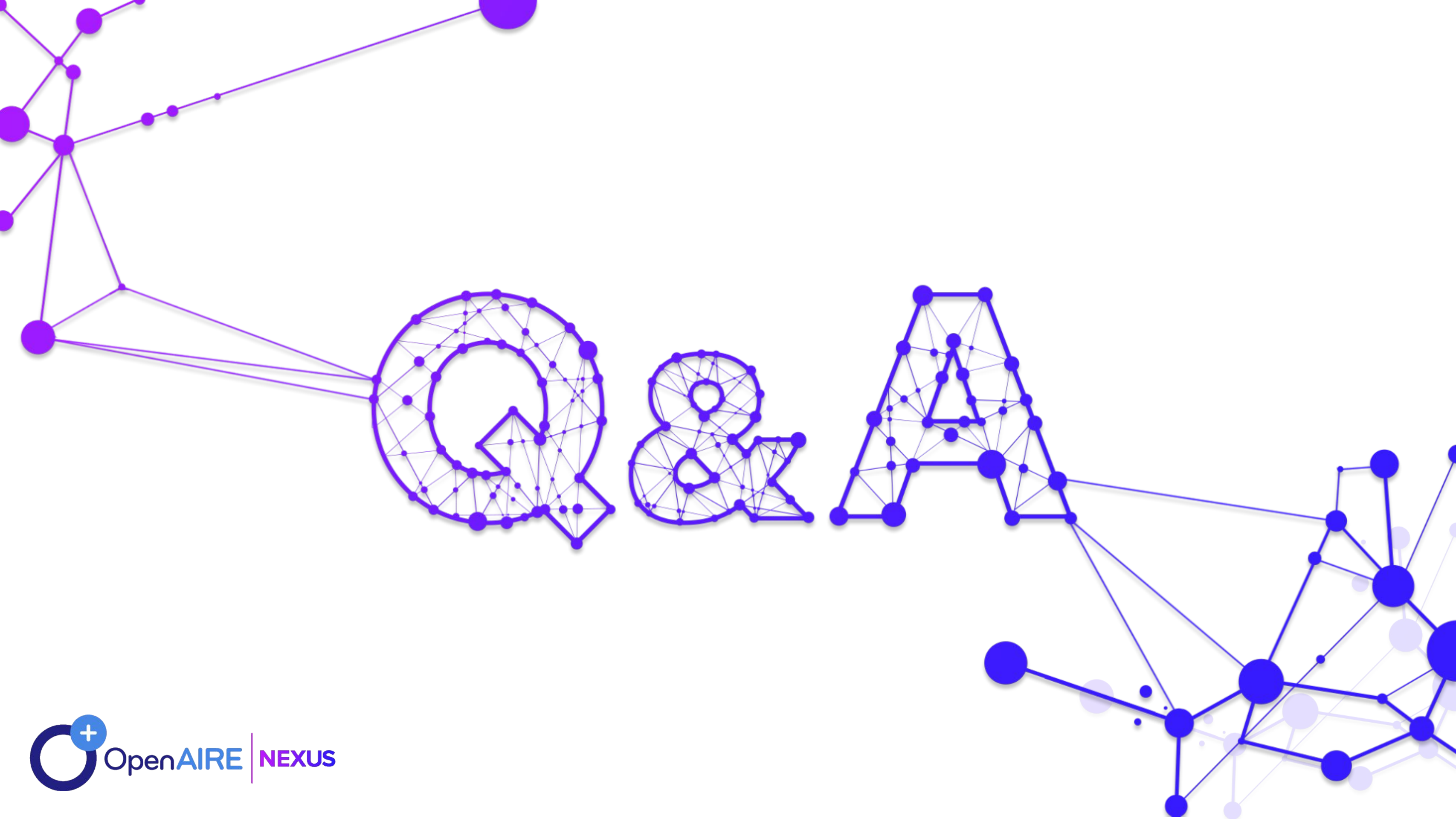
**CCSD** 

Centre pour la Communication  
Scientifique Directe

- [www.ccsd.cnrs.fr](http://www.ccsd.cnrs.fr)
- [@ccsd\\_fr](https://twitter.com/ccsd_fr)
- [Linkedin](#)

Episciences team @ [CCSD](#):

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- Julien Charles
- Djamel Chibane
- Raphaël Tournoy





# NEWS

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