

Episciences

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scientifique en accès ouvert diamant

11 avril 2024, Université de Reims Champagne-Ardenne

Journée d'étude "L'édition scientifique en accès ouvert :
nouveaux modèles, nouveaux contenus,
évolution du *reviewing*"

Céline Barthonnat et Raphaël Tournoy (CCSD)



+



+



=

Infrastructure
de recherche
HAL+

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Une archive ouverte
nationale et
multidisciplinaire
pour la recherche

**1,3 M documents
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- > 12 000 soumissions
- > 6 400 articles
- > 13 000 utilisateurs/utilisatrices
- > 8000 rapports de relecture



Episciences

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arXiv, HAL, Zenodo, bioRxiv et medRxiv...
- Outils et services pour publier au dessus des archives ouvertes



English [edit]

Etymology [edit]
From **Ancient Greek** ἐπί (*epí*, “on top of”).

Prefix [edit]
epi-

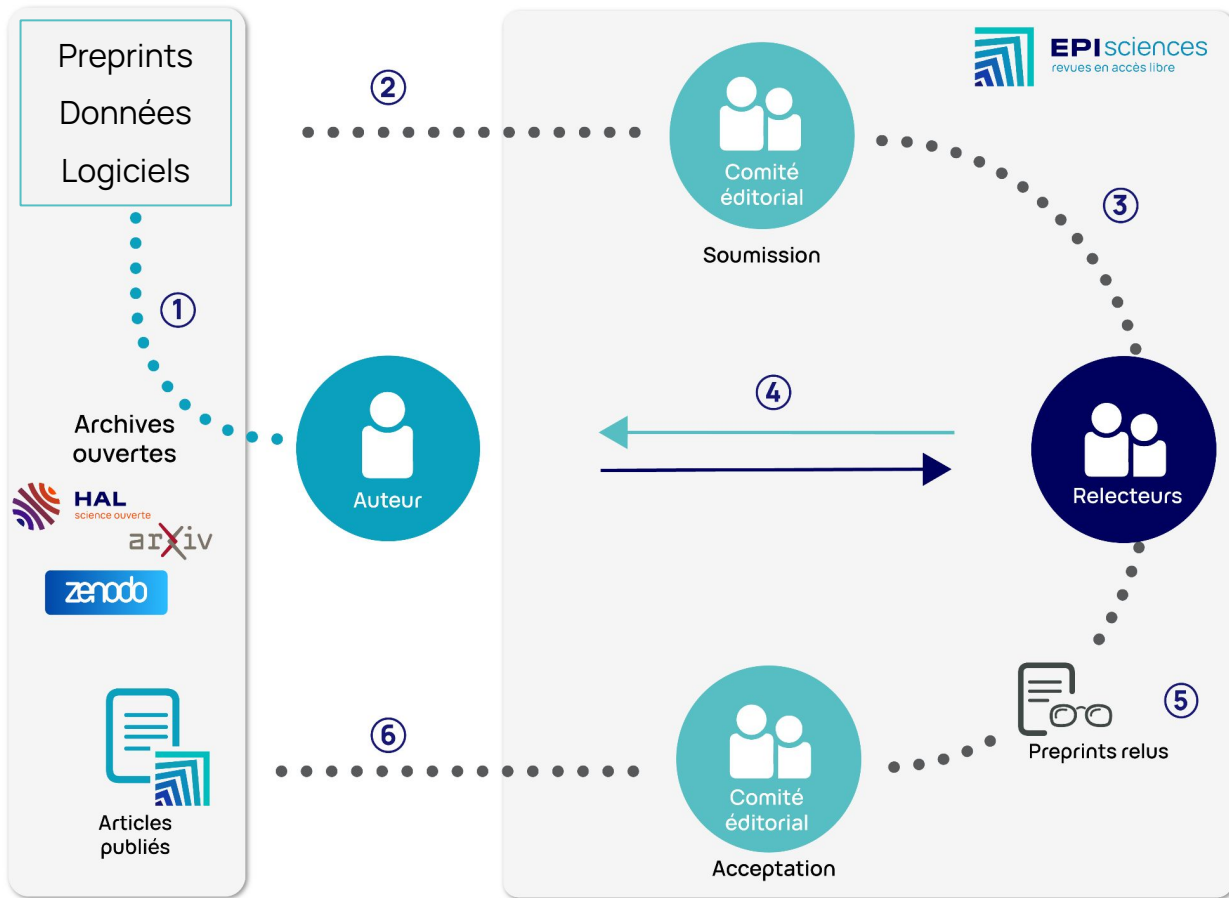
1. Above, over, on, in addition to
2. (*chemistry*) Denotes an epimeric form

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

Flux de travail

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- bioRxiv
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- Software Heritage
- The Dataverse Project



Single blind review

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Avantages du modèle

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- Compatible avec les mandats de dépôt

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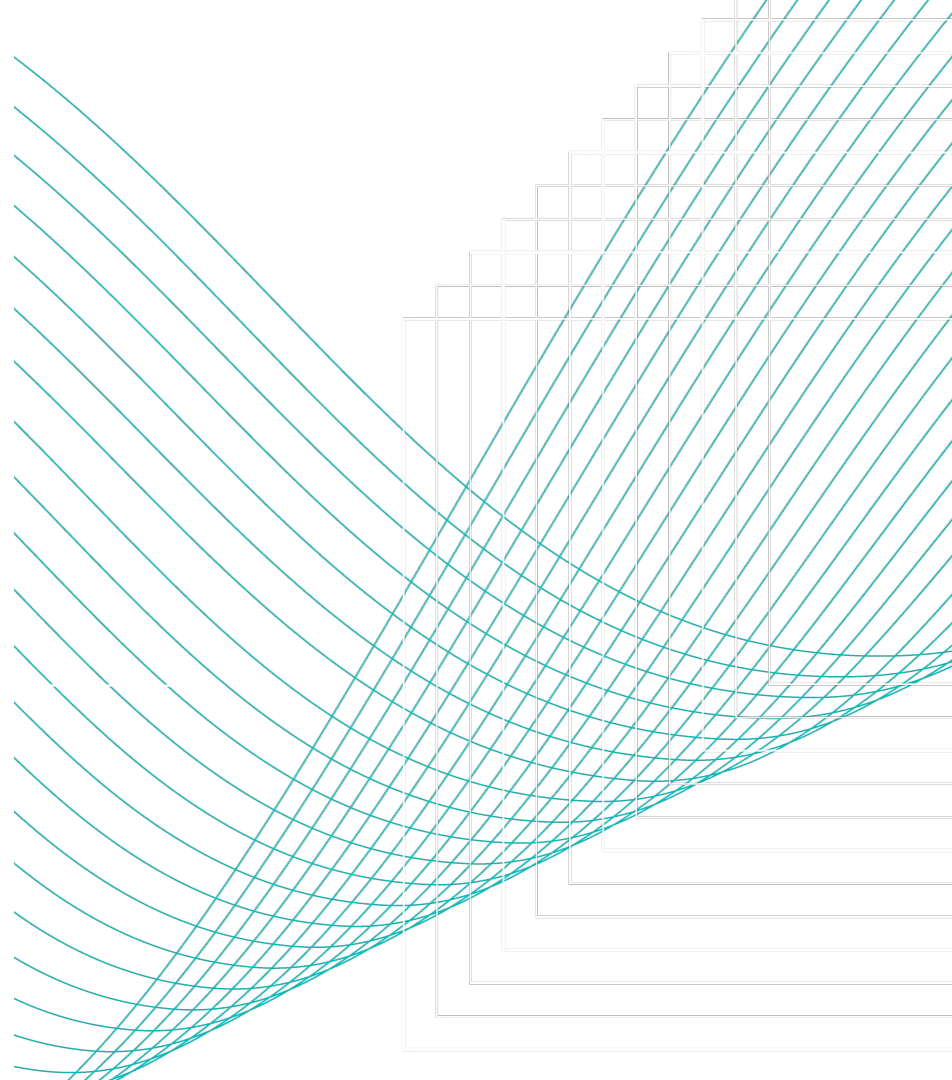
- Les communautés scientifiques possèdent leurs titres, leurs données, et les données de leur activité
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- Les temps et l'argent publics sont investis dans la production d'un bien public

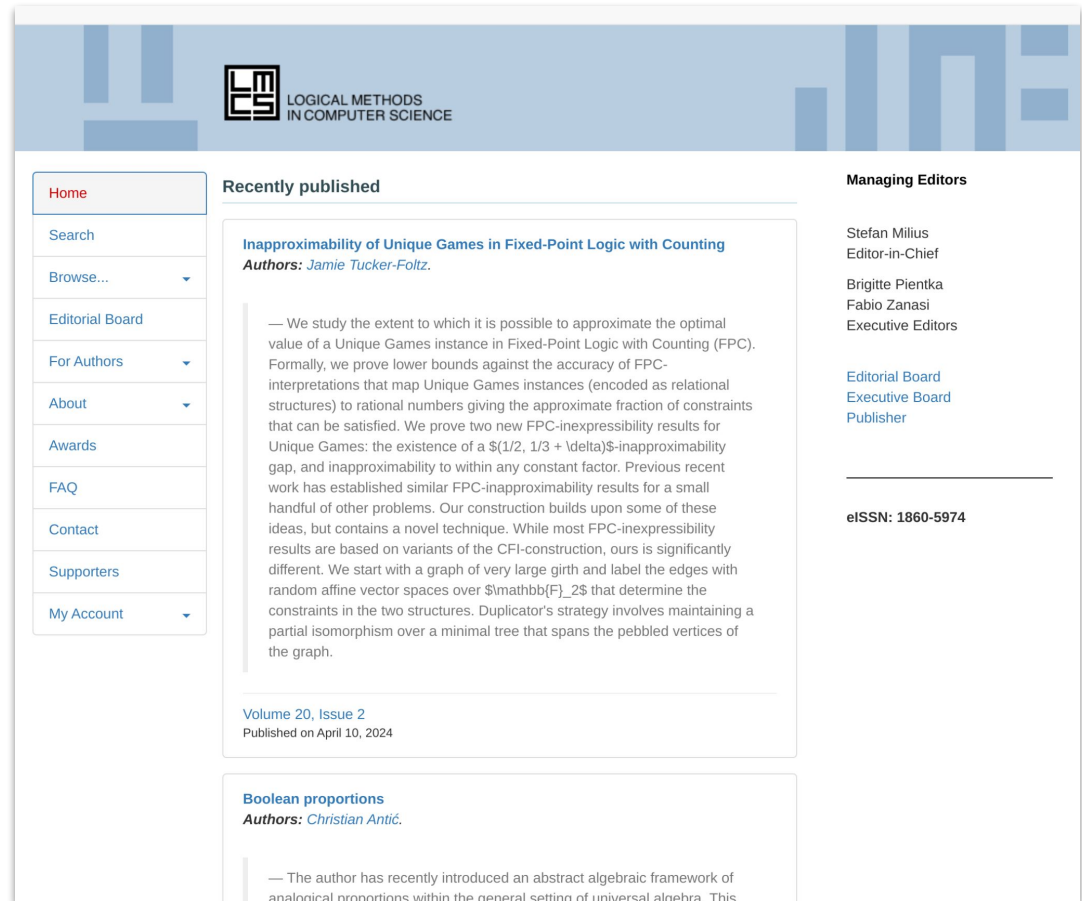
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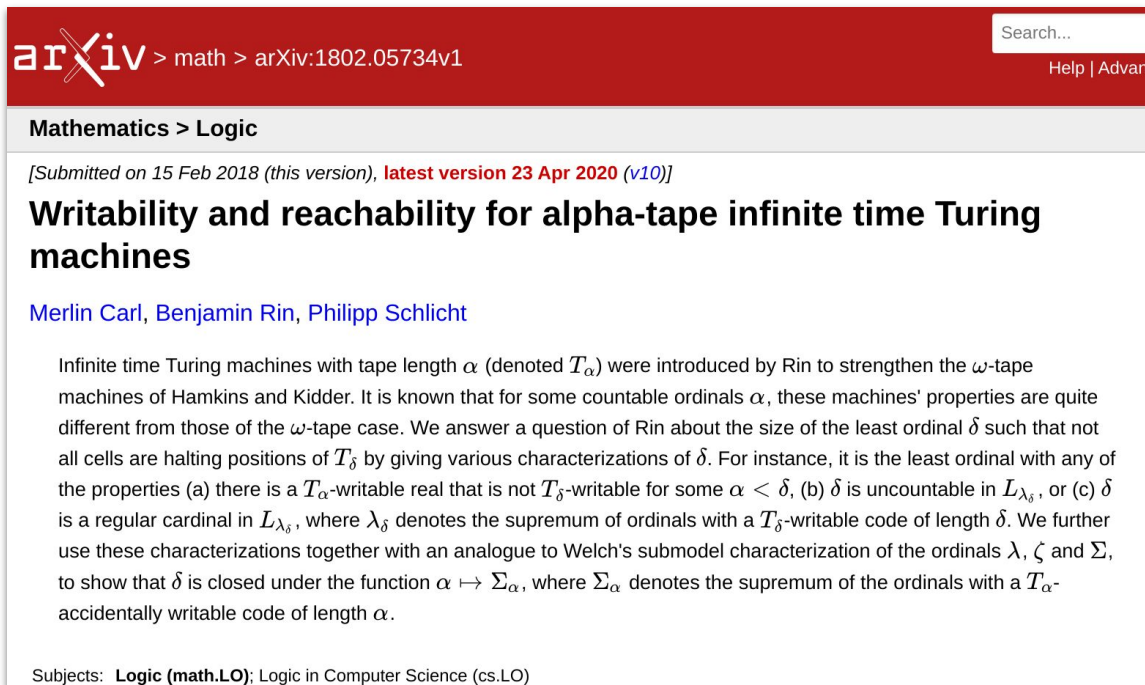


The screenshot shows the homepage of the journal 'Logical Methods in Computer Science'. At the top right is the journal logo and name. On the left is a navigation menu with links for Home, Search, Browse..., Editorial Board, For Authors, About, Awards, FAQ, Contact, Supporters, and My Account. The main content area features a 'Recently published' section with two article previews. The first article is 'Inapproximability of Unique Games in Fixed-Point Logic with Counting' by Jamie Tucker-Foltz, published in Volume 20, Issue 2 on April 10, 2024. The second article is 'Boolean proportions' by Christian Antic. On the right side, there is a 'Managing Editors' section listing Stefan Milius (Editor-in-Chief), Brigitte Pientka, and Fabio Zanasi (Executive Editors), along with the Editorial Board and Executive Board Publisher. The eISSN number 1860-5974 is also displayed.

1. Dépôt du preprint

sur une archive ouverte, e.g. arXiv :

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



The screenshot shows the arXiv preprint page for the paper "Writability and reachability for alpha-tape infinite time Turing machines". The page header includes the arXiv logo, navigation links for "math" and "arXiv:1802.05734v1", a search bar, and "Help | Advan" links. The main content area features the title "Writability and reachability for alpha-tape infinite time Turing machines" in bold black text, followed by the authors "Merlin Carl, Benjamin Rin, Philipp Schlicht" in blue. Below the authors is a paragraph of text describing the paper's contribution to the theory of infinite time Turing machines. At the bottom, the subjects are listed as "Logic (math.LO); Logic in Computer Science (cs.LO)".

arXiv > math > arXiv:1802.05734v1

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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)

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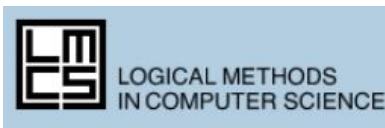
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Récupération des métadonnées

API



arXiv > math > arXiv:1802.05734

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Mathematics > Logic

[Submitted on 15 Feb 2018 (v1), last revised 23 Apr 2020 (this version, v10)]

Reachability for infinite time 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.

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

Ou soumission simplifiée à une revue Episciences depuis HAL



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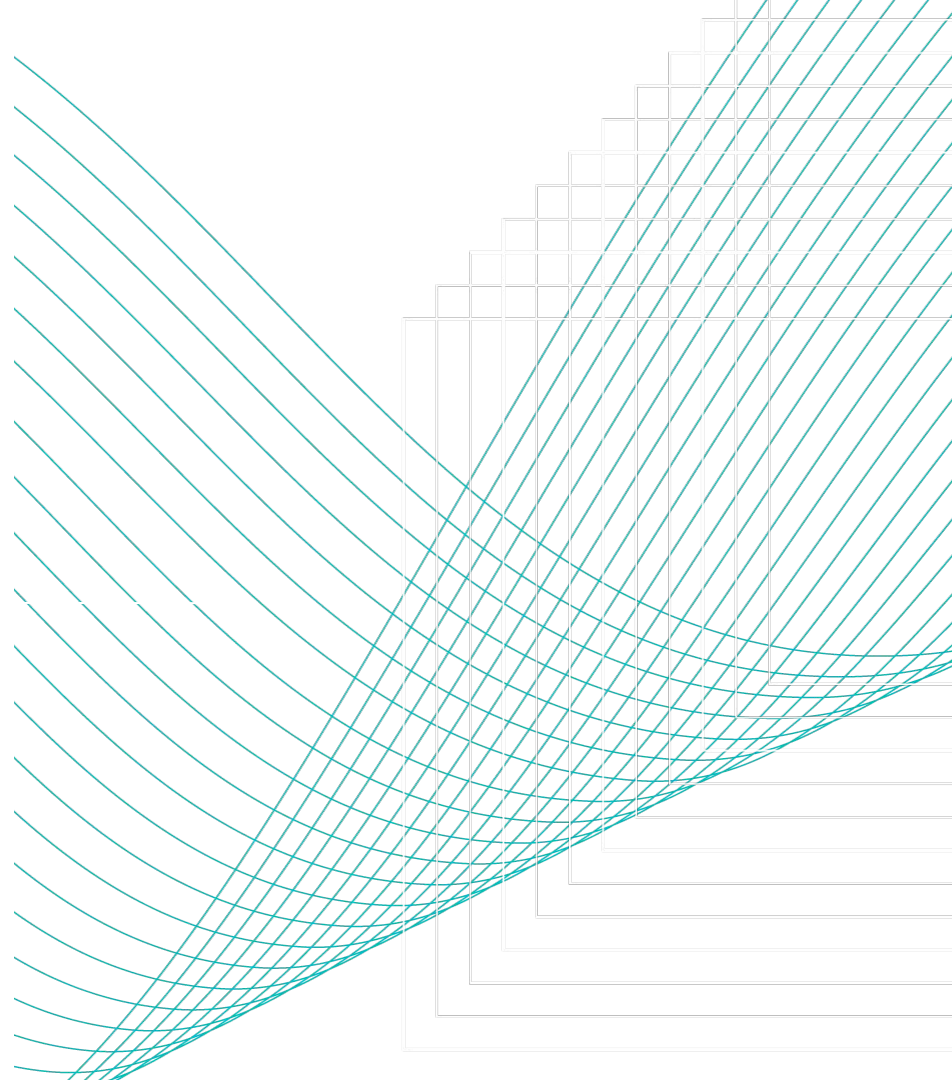
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<https://archive.softwareheritage.org/swh:1.dir:a196e32547579af55bf0debe451291756a2baaab;origin=https://github.com/nasa/cumulus;visit=swh:1.snp:6efa31ce1ed2>

<https://github.com/nasa/astrobee>

03 October 2023, 15:01:02 UTC

Code Branches (22) Releases (0) Visits

Branch: HEAD bba20d5 /

Tip revision: **ea41de975fd3ed5320cc474c061ad6** Merge pull request #717 from nasa/develop

File

- .devcontainer
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origin=https://github.com/nasa/astrobee;
visit=swh:1.snp:ecd2d941b5fb3dc72af9eb6ff0cb3e50b5281874;
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Add contextual information

Article + logiciel

- Évaluation
- Consultation

Reachability for infinite time Turing machines with long tapes

Text

Authors: 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.

Source: [arXiv.org:1802.05734](https://arxiv.org/1802.05734)
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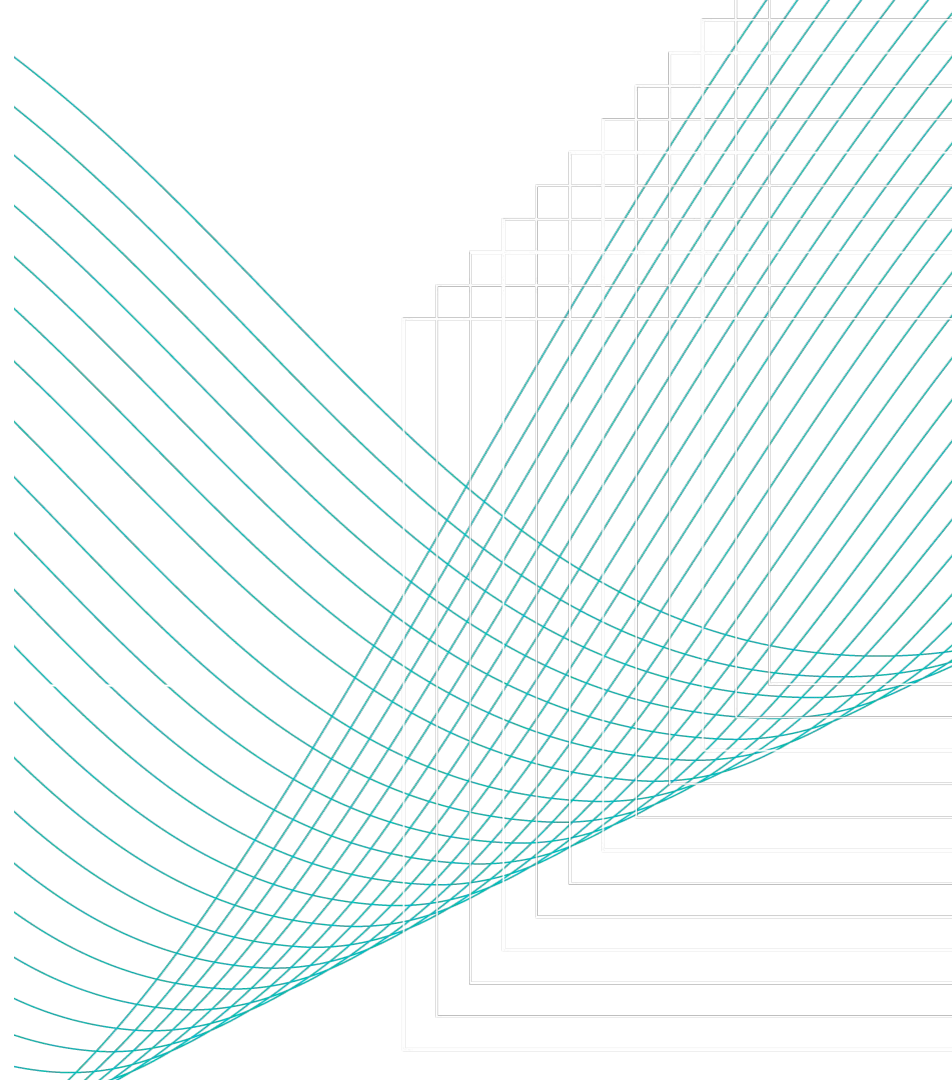
10.18419/DARUS-3347

Datasets ^

References

Tkachuk, A., Krake, T., Gade, J., & Von Scheven, M. (2023). *Matlab Implementation of Efficient Computation of Redundancy Matrices (1-)* [dataset]. DaRUS. [10.18419/DARUS-3347](https://doi.org/10.18419/DARUS-3347)

De l'évaluation à la publication



Évaluation selon les critères de la revue

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Evaluation

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Reachability for Turing machines with long tapes

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

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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)

Publication : une seule version - exemple sur arXiv

Reachability for infinite time Turing machines with long tapes

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 Journal reference: Logical Methods in Computer Science, Volume 16, Issue 2 (April 24, 2020) lmc:6429
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Source: [arXiv.org:1802.05734](https://arxiv.org/abs/1802.05734)

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Submitted on: April 16, 2018

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Publication : une seule version - exemple sur HAL

ÉpiDEMES – 2023, 2
07/02/2023

submitted 08/27/2021, accepted 06/02/2022, revised

Students using programming for pure and applied mathematics investigations

Chantal Buteau, Laura Broley, Kirstin Dreise, & Eric Muller,

Abstract. In this paper, we recount our research on undergraduate mathematics students learning to use programming for mathematics investigation projects. More precisely, we focus on how a particular theoretical perspective (the Instrumental Approach) helps us better understand this student activity. Pulling data from students' and instructors' experiences in a sequence of courses (offered since 2001), our results expose, at the micro and macro levels, how the student activity is organized (through stable 'ways of doing'), and highlights the complexity of this activity (as an intertwined web of 'ways of doing' involving a combination of both mathematics and programming competencies). We end with concrete recommendations to instructors.

Keywords. Programming, Mathematics Investigation, Project-Based Learning, Learning Process, Instrumental Approach

Résumé. Dans cet article, nous présentons notre recherche sur les étudiants de premier cycle en mathématiques apprenant à utiliser la programmation pour des projets d'investigation en mathématiques. Plus précisément, nous nous concentrons sur la façon dont une certaine perspective théorique (l'Approche instrumentale) nous aide à mieux comprendre cette activité de l'étudiant. S'appuyant sur des données des expériences d'étudiants et d'instructeurs dans une séquence de cours (offerts depuis 2001), nos résultats décrivent comment l'activité de l'étudiant est organisée (par le biais de «façons de faire» stables), et met en évidence la complexité de cette activité (comme un réseau entrelacé de «manières de faire » impliquant une combinaison de compétences en mathématiques et en programmation). Nous terminons par quelques recommandations concrètes pour les instructeurs.

Mots-clés. Programmation, Investigation mathématique, Apprentissage par projet, Processus d'apprentissage, Approche instrumentale

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Chantal Buteau ; Laura Broley ; Kirstin Dreise ; Eric Muller - Students using programming for pure and applied mathematics investigations

epidemes:9190 - epiDEMES, March 30, 2023, 2 | 2023 - <https://doi.org/10.46298/epidemes-9190>

Students using programming for pure and applied mathematics investigations

Article

Authors: Chantal Buteau ; Laura Broley ; Kirstin Dreise ¹; Eric Muller 

¹ Brock University [Canada]

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<https://doi.org/10.46298/epidemes-9190>

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Journal Articles Épjournal de Didactique et Epistémologie des Mathématiques

Students using programming for pure and applied mathematics investigations

Chantal Buteau (1), Laura Broley (1), Kirstin Dreise (1), Eric Muller (1)

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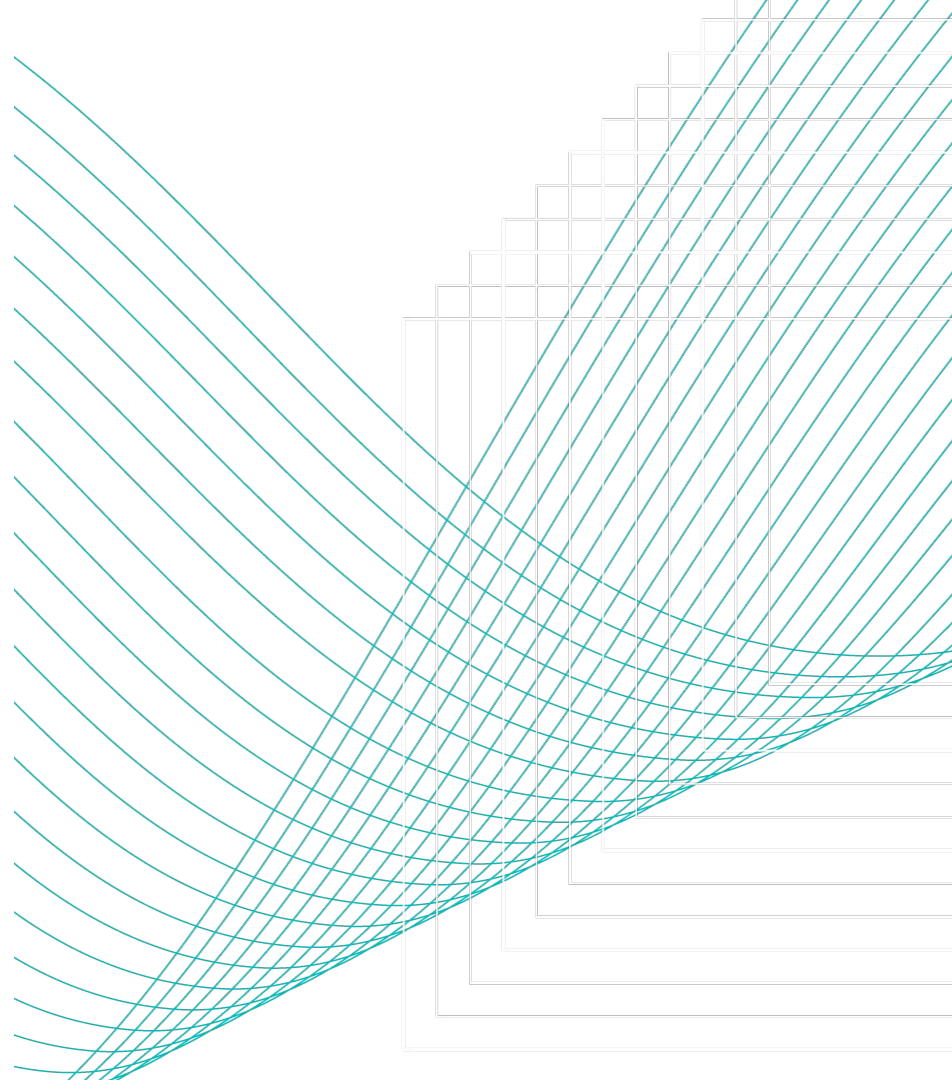
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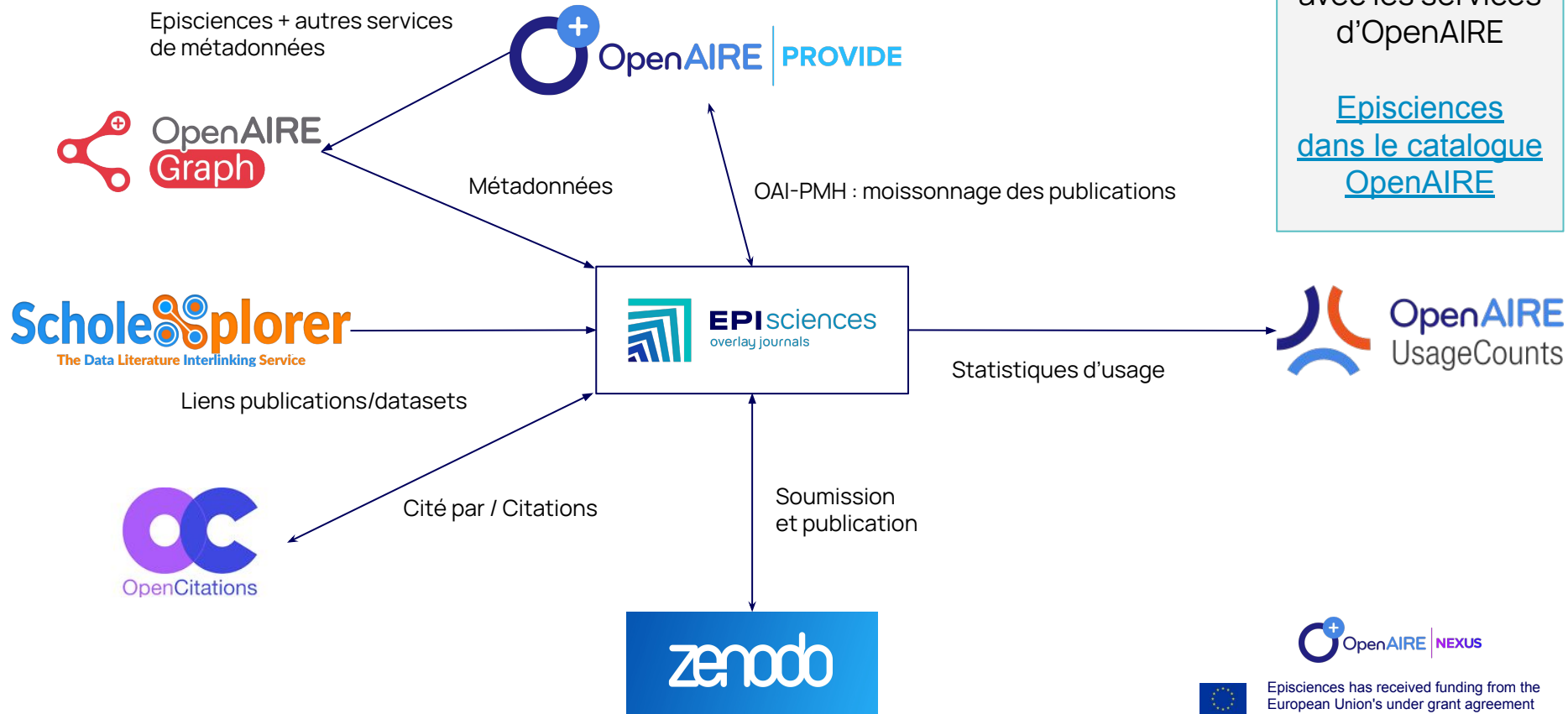
Abstract en fr

In this paper, we recount our research on undergraduate mathematics students using programming for mathematics investigation projects. More precisely, we focus on a theoretical perspective (the Instrumental Approach) helps us better understand the complexity of this activity. Pulling data from students' and instructors' experiences in a sequence of interviews, our results expose, at the micro and macro levels, how the student activity evolves ('ways of doing'), and highlights the complexity of this activity (as an intervention involving a combination of both mathematics and programming competences). We provide recommendations to instructors.



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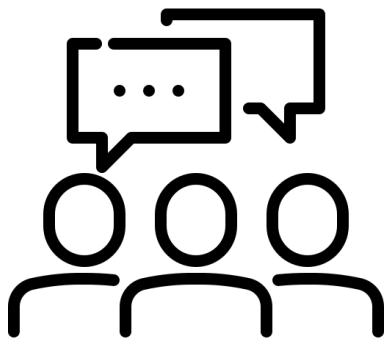
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On fait le point sur les données de la recherche avec Sorella !

Auteurs : *Marie Latour ; Annaïg Mahé ; Olivier Copin ; Bénédicte Sauvage.*

— Cette bande dessinée didactique a été produite par le Service commun de la Documentation de l'Université de Guyane. Elle s'adresse à un public de doctorants et de chercheurs dans un objectif d'accompagnement à ces nouvelles pratiques scientifiques. Elle a été co-financée par l'URFIST de Paris (Ecole nationale des Chartes - PSL). Elle est le deuxième tome d'une série débutée avec la bande dessinée didactique "On fait le point sur la bibliométrie avec Manuella" déposée également sur Zenodo en 2020. L'autrice du scénario de cette bande dessinée est Marie Latour, directrice adjointe du SCD de l'Université de Guyane. Celui-ci a été produit à partir d'un cours dispensé à la bibliothèque universitaire par Annaïg Mahé, enseignante chercheuse à l'URFIST de Paris, lors de sa venue à l'Université de Guyane à l'occasion de l'Open Access Week organisé en 2021. Les dessins ont été réalisés par un dessinateur professionnel, Olivier Copin, et la réalisation graphique a été confiée à une graphiste professionnelle également (Bénédicte Sauvage, de la société BCOM). Plusieurs relecteurs avertis ont permis la finalisation de la version définitive : Romain Feret (directeur de Média Normandie), Cyril Heude (data-librarian à Sciences Po Paris), Amélie Barrio (Co-responsable de l'Urfist Occitanie), et de façon plus ponctuelle, Benjamin Caraco (directeur adjoint de la BIU de l'Université de Strasbourg) et Sylvain Houdebert [...]

Rubrique de test

Publié le 15 janvier 2024

Wikibase as an Infrastructure for Community Documents: The example of the Disability Wiki Platform

Auteurs : *Kushagra Singh Bisen ; Sara Alemayehu ; Pierre Maret ; Alexandra Creighton ; Rachel Gorman ; Bushra Kundi ; Thumeka Mgwawi ; Fabrice Muhlenbach ; Serban Dinca-Panaïtescu ; Dennis Diefenbach et al.*

— The questions that can arise from the users searching for domain-specific answers can hardly be answered with Web search engines. A corpus-dedicated platform is generally needed. In this paper, we present how the Wikibase environment can be employed to make documents searchable efficiently. We use this environment for the Disability Wiki platform. Search for information can be both on the meta-data as well as on the content of the documents.



icône : [lagonicon](#), Flaticon

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Félicitations ! Votre candidature est acceptée !

Une personne référente est responsable de l'accompagnement technique et éditorial de la revue :

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Équipe

CCSD

Céline Barthonnat
Julien Charles
Djamel Chibane
Raphaël Tournoy

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Emmanuelle Perrin
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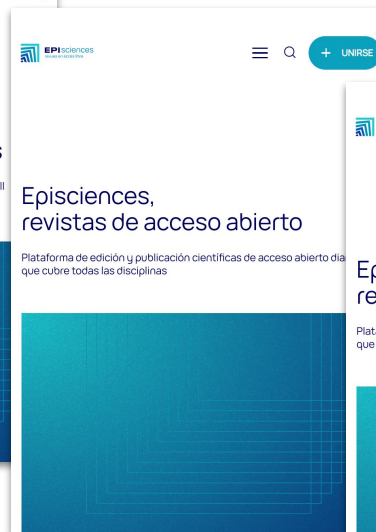
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