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 **Étymologie** [modifier le wikicode]

Du grec ancien ἐπί, *epi* (« sur, au-dessus »)

 **Préfixe** [modifier le wikicode]

epi- \Prononciation ?\
1. Épi-

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

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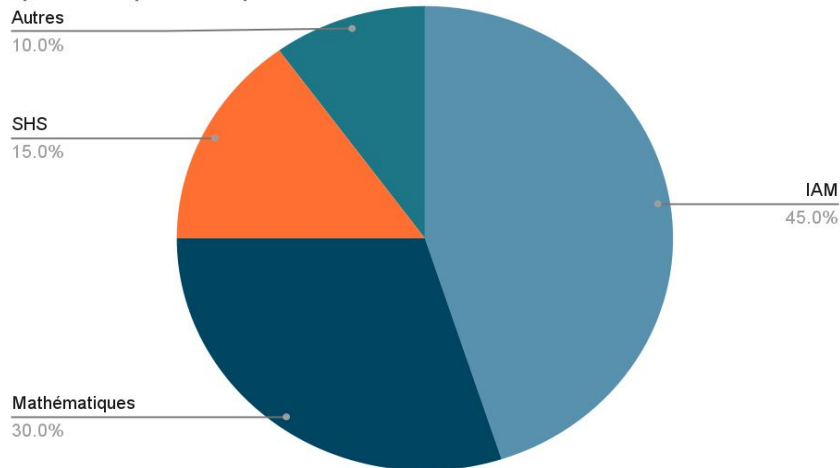
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- Epi-IAM (informatiques et mathématiques appliquées)
- Epi-SHS (sciences humaines et sociales)

2020

- 6 revues acceptées
- 766 articles soumis
- 358 articles publiés

2021

- 5 revues acceptées
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- 20 revues en production

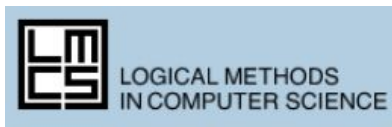


Fonctionnement

Chaque revue a son nom de domaine

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A screenshot of the Logical Methods in Computer Science (LMCS) website. The header includes the LMCS logo and the text 'LOGICAL METHODS IN COMPUTER SCIENCE'. A navigation menu on the left lists: Home, Search, Browse..., Authors, About, FAQ, Documentations, Contact/Tech. Support, Supporters, and My Account. The main content area is titled 'Recently published' and features an article titled 'A Sound Algorithm for Asynchronous Session Subtyping and its Implementation'. The authors listed are Bravetti, Mario; Carbone, Marco; Lange, Julien; Yoshida, Nobuko; and Zavattaro, Gianluigi. The article text discusses session types and subtyping. On the right side, there is a 'Managing Editors' section listing Stefan Milius (Editor-in-Chief), Brigitte Pientka, and Fabio Zanasi (Executive Editors). Below that is the 'Editorial Board Executive Board Publisher' section. At the bottom right, the ISSN number '1860-5974' is displayed.

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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)

Cite as: [arXiv:1802.05734](https://arxiv.org/abs/1802.05734) [**math.LO**]
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LOGICAL METHODS
IN COMPUTER SCIENCE

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

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Version 2

Reachability for Turing machines with long tapes

Merlin Carl, Benjamin Rin, Philipp Schlicht

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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 .

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

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[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. Mise aux normes

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)

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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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REACHABILITY FOR INFINITE TIME TURING MACHINES WITH LONG TAPES

MERLIN CARL, BENJAMIN RIN, AND PHILIPP SCHLICHT

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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.

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5. Publication: d'une des versions

Reachability for infinite time Turing machines with long tapes

Merlin Carl, Benjamin Rin, Philipp Schlicht

arXiv.org

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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)
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
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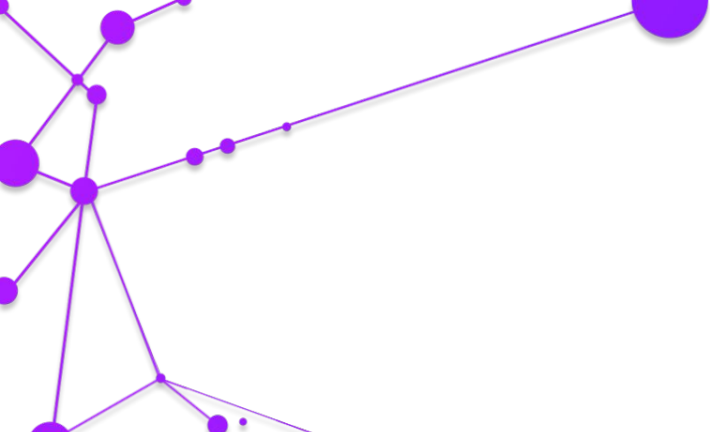
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