

Full Publications List

Peer-Reviewed Journals

- [1] Nathanaël Fijalkow, Guillaume Lagarde, Pierre Ohlmann, and Olivier Serre. “Lower Bounds for Arithmetic Circuits via the Hankel Matrix”. In: *Computational Complexity*. 2021.
- [2] Nathanaël Fijalkow, Cristian Riveros, and James Worrell. “Probabilistic Automata of Bounded Ambiguity”. In: *Information and Computation* (2020). DOI: <https://doi.org/10.1016/j.ic.2020.104648>. URL: <http://www.sciencedirect.com/science/article/pii/S089054012030136X>.
- [3] Alexander Clark and Nathanaël Fijalkow. “Consistent Unsupervised Estimators for Anchored PCFGs”. In: *Transactions of the Association for Computational Linguistics* 8 (2020). URL: <https://transacl.org/ojs/index.php/tacl/article/view/1936>.
- [4] Nathanaël Fijalkow. “Lower bounds for the state complexity of probabilistic languages and the language of prime numbers”. In: *The Journal of Logic and Computation* 30.1 (2020). DOI: 10.1093/logcom/exaa007. URL: <https://doi.org/10.1093/logcom/exaa007>.
- [5] Nathanaël Fijalkow, Stefan Kiefer, and Mahsa Shirmohammadi. “Trace Refinement in Labelled Markov Decision Processes”. In: *Logical Methods in Computer Science* 16.2 (2020). DOI: 10.23638/LMCS-16(2:10)2020. URL: [https://doi.org/10.23638/LMCS-16\(2:10\)2020](https://doi.org/10.23638/LMCS-16(2:10)2020).
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- [9] Nathanaël Fijalkow and Charles Paperman. “Monadic Second-Order Logic with Arbitrary Monadic Predicates”. In: *ACM Transactions on Computational Logic* 18.3 (2017). DOI: 10.1145/3091124. URL: <https://doi.org/10.1145/3091124>.
- [10] Nathanaël Fijalkow, Hugo Gimbert, Edon Kelmendi, and Youssouf Oualhadj. “Deciding the value 1 Problem for Probabilistic Leaktight Automata”. In: *Logical Methods in Computer Science* 11.1 (2015). DOI: 10.2168/LMCS-11(2:12)2015. URL: [https://doi.org/10.2168/LMCS-11\(2:12\)2015](https://doi.org/10.2168/LMCS-11(2:12)2015).

- [11] Nathanaël Fijalkow and Martin Zimmermann. “Cost-Parity and Cost-Streett Games”. In: *Logical Methods in Computer Science* 10.2 (2014). DOI: 10.2168/LMCS-10(2:14)2014. URL: [https://doi.org/10.2168/LMCS-10\(2:14\)2014](https://doi.org/10.2168/LMCS-10(2:14)2014).
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- [15] Judith Clymo, Haik Manukian, Nathanaël Fijalkow, Adrià Gascón, and Brooks Paige. “Data Generation for Neural Programming by Example”. In: *AI&STATS*. Ed. by Silvia Chiappa and Roberto Calandra. Vol. 108. Proceedings of Machine Learning Research. PMLR, 2020. URL: <http://proceedings.mlr.press/v108/clymo20a.html>.
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- [21] Nathanaël Fijalkow, Joël Ouaknine, Amaury Pouly, João Sousa Pinto, and James Worrell. “On the decidability of reachability in linear time-invariant systems”. In: *International Conference on Hybrid Systems: Computation and Control, HSCC*. 2019. DOI: 10.1145/3302504.3311796. URL: <https://doi.org/10.1145/3302504.3311796>.
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Softwares

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