

List of publications

Antoine Amarilli

January 30, 2023

1 Peer-reviewed international conferences

- [1] Antoine Amarilli. “Uniform Reliability for Unbounded Homomorphism-Closed Graph Queries”. In: *ICDT*. 2023.
- [2] Antoine Amarilli and Mikaël Monet. “Enumerating Regular Languages in Bounded Delay”. In: *STACS*. 2023.
- [3] Antoine Amarilli, Louis Jachiet, Martín Muñoz, and Cristian Riveros. “Efficient Enumeration Algorithms for Annotated Grammars”. In: *PODS*. 2022. DOI: 10.1145/3517804.3526232.
- [4] Antoine Amarilli and Mikaël Monet. “Weighted Counting of Matchings in Unbounded-Treewidth Graph Families”. In: *MFCS*. 2022. DOI: 10.4230/LIPIcs.MFCS.2022.9.
- [5] Antoine Amarilli, Louis Jachiet, and Charles Paperman. “Dynamic Membership for Regular Languages”. In: *ICALP*. 2021. DOI: 10.4230/LIPIcs.ICALP.2021.116.
- [6] Antoine Amarilli and Benny Kimelfeld. “Uniform Reliability of Self-Join-Free Conjunctive Queries”. In: *ICDT*. 2021. DOI: 10.4230/LIPIcs.ICDT.2021.17.
- [7] Osnat Drien, Antoine Amarilli, and Yael Amsterdamer. “Managing Consent for Data Access in Shared Databases”. In: *ICDE*. Short paper. 2021. DOI: 10.1109/ICDE51399.2021.00182.
- [8] Antoine Amarilli and İsmail İlkan Ceylan. “A Dichotomy for Homomorphism-Closed Queries on Probabilistic Graphs”. In: *ICDT*. 2020. DOI: 10.4230/LIPIcs.ICDT.2020.5.
- [9] Julien Romero, Nicoleta Preda, Antoine Amarilli, and Fabian M. Suchanek. “Equivalent Rewritings on Path Views with Binding Patterns”. In: *ESWC*. 2020. DOI: 10.1007/978-3-030-49461-2_26.
- [10] Julien Romero, Nicoleta Preda, Antoine Amarilli, and Fabian M. Suchanek. “Computing and Illustrating Query Rewritings on Path Views with Binding Patterns”. In: *CIKM*. Demo paper. 2020. DOI: 10.1145/3340531.3417431.
- [11] Antoine Amarilli, Pierre Bourhis, Stefan Mengel, and Matthias Niewerth. “Constant-Delay Enumeration for Nondeterministic Document Spanners”. In: *ICDT*. 2019. DOI: 10.4230/LIPIcs.ICDT.2019.22.
- [12] Antoine Amarilli, Pierre Bourhis, Stefan Mengel, and Matthias Niewerth. “Enumeration on Trees with Tractable Combined Complexity and Efficient Updates”. In: *PODS*. 2019. DOI: 10.1145/3294052.3319702.
- [13] Andy Shih, Guy Van den Broeck, Paul Beame, and Antoine Amarilli. “Smoothing Structured Decomposable Circuits”. In: *NeurIPS*. Spotlight presentation. 2019.
- [14] Antoine Amarilli and Michael Benedikt. “When Can We Answer Queries Using Result-Bounded Data Interfaces?” In: *PODS*. 2018. DOI: 10.1145/3196959.3196965.

- [15] Antoine Amarilli, Pierre Bourhis, and Stefan Mengel. “Enumeration on Trees under Relabelings”. In: *ICDT*. 2018. DOI: 10.4230/LIPIcs.ICDT.2018.5.
- [16] Antoine Amarilli, Mikaël Monet, and Pierre Senellart. “Connecting Width and Structure in Knowledge Compilation”. In: *ICDT*. 2018. DOI: 10.4230/LIPIcs.ICDT.2018.6.
- [17] Antoine Amarilli and Charles Paperman. “Topological Sorting under Regular Constraints”. In: *ICALP*. 2018. DOI: 10.4230/LIPIcs.ICALP.2018.115.
- [18] Antoine Amarilli, Yael Amsterdamer, Tova Milo, and Pierre Senellart. “Top-k Queries on Unknown Values under Order Constraints”. In: *ICDT*. 2017. DOI: 10.4230/LIPIcs.ICDT.2017.5.
- [19] Antoine Amarilli, M. Lamine Ba, Daniel Deutch, and Pierre Senellart. “Possible and Certain Answers for Queries over Order-Incomplete Data”. In: *TIME*. 2017. DOI: 10.4230/LIPIcs.TIME.2017.4.
- [20] Antoine Amarilli, Pierre Bourhis, Louis Jachiet, and Stefan Mengel. “A Circuit-Based Approach to Efficient Enumeration”. In: *ICALP*. 2017. DOI: 10.4230/LIPIcs.ICALP.2017.111.
- [21] Antoine Amarilli, Pierre Bourhis, Mikaël Monet, and Pierre Senellart. “Combined Tractability of Query Evaluation via Tree Automata and Cycluits”. In: *ICDT*. 2017. DOI: 10.4230/LIPIcs.ICDT.2017.6.
- [22] Antoine Amarilli, Mikaël Monet, and Pierre Senellart. “Conjunctive Queries on Probabilistic Graphs: Combined Complexity”. In: *PODS*. 2017. DOI: 10.1145/3034786.3056121.
- [23] Luis Galárraga, Simon Razniewski, Antoine Amarilli, and Fabian M. Suchanek. “Predicting Completeness in Knowledge Bases”. In: *WSDM*. 2017. DOI: 10.1145/3018661.3018739.
- [24] Antoine Amarilli, Michael Benedikt, Pierre Bourhis, and Michael Vanden Boom. “Query Answering with Transitive and Linear-Ordered Data”. In: *IJCAI*. 2016.
- [25] Antoine Amarilli, Pierre Bourhis, and Pierre Senellart. “Tractable Lineages on Treelike Instances: Limits and Extensions”. In: *PODS*. 2016. DOI: 10.1145/2902251.2902301.
- [26] Antoine Amarilli, Silviu Maniu, and Mikaël Monet. “Challenges for Efficient Query Evaluation on Structured Probabilistic Data”. In: *SUM*. 2016. DOI: 10.1007/978-3-319-45856-4_22.
- [27] Antoine Amarilli and Michael Benedikt. “Combining Existential Rules and Description Logics”. In: *IJCAI*. 2015.
- [28] Antoine Amarilli and Michael Benedikt. “Finite Open-World Query Answering with Number Restrictions”. In: *LICS*. 2015. DOI: 10.1109/LICS.2015.37.
- [29] Antoine Amarilli, Pierre Bourhis, and Pierre Senellart. “Provenance Circuits for Trees and Treelike Instances”. In: *ICALP*. 2015. DOI: 10.1007/978-3-662-47666-6_5.
- [30] Antoine Amarilli, Yael Amsterdamer, and Tova Milo. “On the Complexity of Mining Itemsets from the Crowd Using Taxonomies”. In: *ICDT*. 2014. DOI: 10.5441/002/icdt.2014.06.
- [31] Ruiming Tang, Antoine Amarilli, Pierre Senellart, and Stéphane Bressan. “Get a Sample for a Discount: Sampling-Based XML Data Pricing”. In: *DEXA*. 2014. DOI: 10.1007/978-3-319-10073-9_3.

2 Peer-reviewed international workshops

- [32] Antoine Amarilli and Yael Amsterdamer. “Worst-Case Analysis for Interactive Evaluation of Boolean Provenance”. In: *TAPP*. 2022. DOI: 10.1145/3530800.3534538.

- [33] Antoine Amarilli. “Structurally Tractable Uncertain Data”. In: *SIGMOD/PODS Ph.D. Symposium*. 2015. DOI: 10.1145/2744680.2744690.
- [34] Aliaksandr Talaika, Joanna Biega, Antoine Amarilli, and Fabian M. Suchanek. “IBEX: Harvesting Entities from the Web Using Unique Identifiers”. In: *WebDB*. 2015. DOI: 10.1145/2767109.2767116.
- [35] Antoine Amarilli. “The Possibility Problem for Probabilistic XML”. In: *AMW*. 2014.
- [36] Antoine Amarilli, Yael Amsterdamer, and Tova Milo. “Uncertainty in Crowd Data Sourcing under Structural Constraints”. In: *UnCrowd*. 2014. DOI: 10.1007/978-3-662-43984-5_27.
- [37] Marilena Oita, Antoine Amarilli, and Pierre Senellart. “Cross-Fertilizing Deep Web Analysis and Ontology Enrichment”. In: *VLDS*. 2012.

3 Peer-reviewed national conferences

- [38] Antoine Amarilli and Pierre Senellart. “On the Connections between Relational and XML Probabilistic Data Models”. In: *BNCOD*. 2013. DOI: 10.1007/978-3-642-39467-6_13.

4 Patents

- [39] Antoine Amarilli, Mehryar Mohri, and Cyril Allauzen. *Minimum Bayesian Risk Methods for Automatic Speech Recognition*. US Patent 9123333. 2015.

5 Peer-reviewed journal articles

- [40] Antoine Amarilli and Michael Benedikt. “When Can We Answer Queries Using Result-Bounded Data Interfaces?” In: *LMCS 2022 (2022)*. DOI: 10.46298/LMCS-18(2:14)2022.
- [41] Antoine Amarilli and İsmail İlkan Ceylan. “The Dichotomy of Evaluating Homomorphism-Closed Queries on Probabilistic Graphs”. In: *LMCS 2022 (2022)*. DOI: 10.46298/lmcs-18(1:2)2022.
- [42] Antoine Amarilli and Benny Kimelfeld. “Uniform Reliability of Self-Join-Free Conjunctive Queries”. In: *LMCS (2022)*. DOI: 10.46298/lmcs-18(4:3)2022.
- [43] Antoine Amarilli, Pierre Bourhis, Stefan Mengel, and Matthias Niewerth. “Constant-Delay Enumeration for Nondeterministic Document Spanners”. In: *TODS 2021 (2021)*. DOI: 10.1145/3436487.
- [44] Antoine Amarilli and Michael Benedikt. “Finite Open-World Query Answering with Number Restrictions”. In: *ToCL 2020 (2020)*. DOI: 10.1145/3365834.
- [45] Antoine Amarilli, Florent Capelli, Mikaël Monet, and Pierre Senellart. “Connecting Knowledge Compilation Classes and Width Parameters”. In: *ToCS 2020 (2020)*. DOI: 10.1007/s00224-019-09930-2.
- [46] Antoine Amarilli, M. Lamine Ba, Daniel Deutch, and Pierre Senellart. “Computing Possible and Certain Answers over Order-Incomplete Data”. In: *TCS 2019 (2019)*. DOI: 10.1016/j.tcs.2019.05.013.
- [47] Antoine Amarilli, Pierre Bourhis, Mikaël Monet, and Pierre Senellart. “Evaluating Datalog via Tree Automata and Cycluits”. In: *ToCS 2019 (2019)*. DOI: 10.1007/s00224-018-9901-2.

- [48] Antoine Amarilli, Michael Benedikt, Pierre Bourhis, and Michael Vanden Boom. “Query Answering with Transitive and Linear-Ordered Data”. In: *JAIR* 2018 (2018). DOI: 10.1613/jair.1.11240.
- [49] Antoine Amarilli. “Possibility in Probabilistic XML”. In: *ISI* 2015 (2015). DOI: 10.3166/isi.20.5.53-75.
- [50] Ruiming Tang, Antoine Amarilli, Pierre Senellart, and Stéphane Bressan. “A Framework for Sampling-Based XML Data Pricing”. In: *TLDKS* 2015 (2014). DOI: 10.1007/978-3-662-49214-7_4.

6 Publications without peer review

- [51] Antoine Amarilli, Silviu Maniu, and Pierre Senellart. “Intensional Data on the Web”. In: *ACM SIGWEB Newsletter Summer 2015* (2015). DOI: 10.1145/2808000.2808004.
- [52] Antoine Amarilli, Luis Galárraga, Nicoleta Preda, and Fabian M. Suchanek. “Recent Topics of Research around the YAGO Knowledge Base”. In: *APWEB*. 2014. DOI: 10.1007/978-3-319-11116-2_1.
- [53] Antoine Amarilli, Fabrice Ben Hamouda, Florian Bourse, Robin Morisset, David Naccache, and Pablo Rauzy. “From Rational Number Reconstruction to Set Reconciliation and File Synchronization”. In: *TGC*. 2012. DOI: 10.1007/978-3-642-41157-1_1.
- [54] Antoine Amarilli, Sascha Müller, David Naccache, Daniel Page, Pablo Rauzy, and Michael Tunstall. “Can Code Polymorphism Limit Information Leakage?” In: *WISTP*. 2011. DOI: 10.1007/978-3-642-21040-2_1.
- [55] Antoine Amarilli, David Naccache, Pablo Rauzy, and Emil Simion. “Can a Program Reverse-Engineer Itself?” In: *IMACC*. 2011. DOI: 10.1007/978-3-642-25516-8_1.

7 Publications currently undergoing peer review

- [56] Antoine Amarilli and Michael Benedikt. “Tighter Bounds for Query Answering with Guarded TGDs”. Under review. 2023.
- [57] Antoine Amarilli and Charles Paperman. “Locality and Centrality: The Variety ZG”. Under review. 2021.