# Georg Gottlob

List of Publications by Year
in descending order

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| 239 | 9,802 | 71102 | 51608 |
|---|---|---|---|
| papers | citations | 41 h-index | 86 g-index |

| 253 | 253 | 253 | 2372 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Vadalog: A modern architecture for automated reasoning with large knowledge graphs. Information Systems, 2022, 105, 101528. | 3.6 | 19 |
| 2 | Data science with Vadalog: Knowledge Graphs with machine learning and reasoning in practice. Future Generation Computer Systems, 2022, 129, 407-422. | 7.5 | 11 |
| 3 | The Space-Efficient Core of Vadalog. ACM Transactions on Database Systems, 2022, 47, 1-46. | 2.8 | 2 |
| 4 | Fast and parallel decomposition of constraint satisfaction problems. Constraints, 2022, 27, 284-326. | 0.7 | 2 |
| 5 | Non-Uniformly Terminating Chase: Size and Complexity. , 2022, , . | | 2 |
| 6 | Fast Parallel Hypertree Decompositions in Logarithmic Recursion Depth. , 2022, , . | | 1 |
| 7 | Guarded Ontology-Mediated Queries. Outstanding Contributions To Logic, 2021, , 27-52. | 0.3 | 1 |
| 8 | HyperBench. Journal of Experimental Algorithmics, 2021, 26, 1-40. | 1.0 | 5 |
| 9 | Complexity Analysis of Generalized and Fractional Hypertree Decompositions. Journal of the ACM, 2021, 68, 1-50. | 2.2 | 4 |
| 10 | Stable Model Semantics for Guarded Existential Rules and Description Logics: Decidability and Complexity. Journal of the ACM, 2021, 68, 1-87. | 2.2 | 0 |
| 11 | Monadic Datalog, Tree Validity, and Limited Access Containment. ACM Transactions on Computational Logic, 2020, 21, 1-45. | 0.9 | 3 |
| 12 | Fast and Parallel Decomposition of Constraint Satisfaction Problems. , 2020, , . | | 5 |
| 13 | Multi-head Guarded Existential Rules Over Fixed Signatures. , 2020, , . | | 2 |
| 14 | The HyperTrac Project: Recent Progress and Future Research Directions on Hypergraph Decompositions. Lecture Notes in Computer Science, 2020, , 3-21. | 1.3 | 2 |
| 15 | Semantic Optimization of Conjunctive Queries. Journal of the ACM, 2020, 67, 1-60. | 2.2 | 4 |
| 16 | VADA: an architecture for end user informed data preparation. Journal of Big Data, 2019, 6, . | 11.0 | 16 |
| 17 | HyperBench. , 2019, , . | | 8 |
| 18 | The Space-Efficient Core of Vadalog. , 2019, , . | | 6 |

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| 19 | RED: Redundancy-Driven Data Extraction from Result Pages?. , 2019, , . | | 2 |
| 20 | Vadalog: Recent Advances and Applications. Lecture Notes in Computer Science, 2019, , 21-37. | 1.3 | 6 |
| 21 | Achieving New Upper Bounds for the Hypergraph Duality Problem through Logic. SIAM Journal on Computing, 2018, 47, 456-492. | 1.0 | 6 |
| 22 | Tree projections and constraint optimization problems: Fixed-parameter tractability and parallel algorithms. Journal of Computer and System Sciences, 2018, 94, 11-40. | 1.2 | 4 |
| 23 | Browserless Web Data Extraction. , 2018, , . | | 9 |
| 24 | Expressive Languages for Querying the Semantic Web. ACM Transactions on Database Systems, 2018, 43, 1-45. | 2.8 | 11 |
| 25 | The Impact of Active Domain Predicates on Guarded Existential Rules. Fundamenta Informaticae, 2018, 159, 123-146. | 0.4 | 2 |
| 26 | Vadalog: A Language and System for Knowledge Graphs. Lecture Notes in Computer Science, 2018, , 3-8. | 1.3 | 1 |
| 27 | General and Fractional Hypertree Decompositions. , 2018, , . | | 17 |
| 28 | Web Data Extraction System. , 2018, , 4611-4618. | | 1 |
| 29 | Finite Model Reasoning in Hybrid Classes of Existential Rules. , 2018, , . | | 1 |
| 30 | The VADA Architecture for Cost-Effective Data Wrangling. , 2017, , . | | 28 |
| 31 | Preface of the Special Issue in Memoriam Helmut Veith. Formal Methods in System Design, 2017, 51, 267-269. | 0.8 | 1 |
| 32 | Combining decidability paradigms for existential rules. Theory and Practice of Logic Programming - CORRIGENDUM. Theory and Practice of Logic Programming, 2016, 16, 139-139. | 1.5 | 0 |
| 33 | Semantic Acyclicity Under Constraints. , 2016, , . | | 11 |
| 34 | The Impact of Active Domain Predicates on Guarded Existential Rules. Lecture Notes in Computer Science, 2016, , 94-110. | 1.3 | 0 |
| 35 | Hypertree Decompositions. , 2016, , . | | 45 |
| 36 | Tractability frontiers of the partner units configuration problem. Journal of Computer and System Sciences, 2016, 82, 739-755. | 1.2 | 4 |

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| 37 | Web Data Extraction System. , 2016, , 1-8. | | 0 |
| 38 | Chase Termination for Guarded Existential Rules. , 2015, , . | | 12 |
| 39 | Function Symbols in Tuple-Generating Dependencies. , 2015, , . | | 4 |
| 40 | Recent Advances in Datalog $$^pm $$. Lecture Notes in Computer Science, 2015, , 193-217. | 1.3 | 1 |
| 41 | Treewidth and Hypertree Width. , 2014, , 3-38. | | 11 |
| 42 | Expressive languages for querying the semantic web. , 2014, , . | | 43 |
| 43 | LoCoâ€”A Logic for Configuration Problems. ACM Transactions on Computational Logic, 2014, 15, 1-25. | 0.9 | 2 |
| 44 | A front row seat to Communications ' editorial transformation. Communications of the ACM, 2014, 57, 5-5. | 4.5 | 1 |
| 45 | Expressiveness of guarded existential rule languages. , 2014, , . | | 19 |
| 46 | Achieving new upper bounds for the hypergraph duality problem through logic. , 2014, , . | | 1 |
| 47 | Query Rewriting and Optimization for Ontological Databases. ACM Transactions on Database Systems, 2014, 39, 1-46. | 2.8 | 59 |
| 48 | The price of query rewriting in ontology-based data access. Artificial Intelligence, 2014, 213, 42-59. | 5.8 | 52 |
| 49 | DIADEM. Proceedings of the VLDB Endowment, 2014, 7, 1845-1856. | 3.8 | 43 |
| 50 | Querying the Guarded Fragment. Logical Methods in Computer Science, 2014, 10, . | 0.4 | 24 |
| 51 | The ontological key: automatically understanding and integrating forms to access the deep Web. VLDB Journal, 2013, 22, 615-640. | 4.1 | 21 |
| 52 | Query answering under probabilistic uncertainty in Datalog+â€‰/â€‰âˆ’ ontologies. Annals of Mathematics and Artificial Intelligence, 2013, 69, 37-72. | 1.3 | 32 |
| 53 | OXPath: A language for scalable data extraction, automation, and crawling on the deep web. VLDB Journal, 2013, 22, 47-72. | 4.1 | 63 |
| 54 | Semantic Web Search and Inductive Reasoning. Lecture Notes in Computer Science, 2013, , 237-261. | 1.3 | 2 |

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| 55 | Deciding monotone duality and identifying frequent itemsets in quadratic logspace. , 2013, , . | | 5 |
| 56 | Well-founded semantics for extended datalog and ontological reasoning. , 2013, , . | | 15 |
| 57 | Decomposing combinatorial auctions and set packing problems. Journal of the ACM, 2013, 60, 1-39. | 2.2 | 14 |
| 58 | Combining decidability paradigms for existential rules. Theory and Practice of Logic Programming, 2013, 13, 877-892. | 1.5 | 10 |
| 59 | Marco Cadoli's work on nonmonotonic reasoning. Intelligenza Artificiale, 2013, 7, 7-17. | 1.6 | 0 |
| 60 | Querying the Guarded Fragment with Transitivity. Lecture Notes in Computer Science, 2013, , 287-298. | 1.3 | 9 |
| 61 | Tractable Reasoning in Description Logics with Functionality Constraints. Lecture Notes in Computer Science, 2013, , 174-192. | 1.3 | 0 |
| 62 | OPAL. , 2012, , . | | 19 |
| 63 | Size and Treewidth Bounds for Conjunctive Queries. Journal of the ACM, 2012, 59, 1-35. | 2.2 | 29 |
| 64 | A general Datalog-based framework for tractable query answering over ontologies. Web Semantics, 2012, 14, 57-83. | 2.9 | 222 |
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| 66 | Towards more expressive ontology languages: The query answering problem. Artificial Intelligence, 2012, 193, 87-128. | 5.8 | 134 |
| 67 | DIADEM. , 2012, , . | | 32 |
| 68 | On the Complexity of Ontological Reasoning under Disjunctive Existential Rules. Lecture Notes in Computer Science, 2012, , 1-18. | 1.3 | 11 |
| 69 | On minimal constraint networks. Artificial Intelligence, 2012, 191-192, 42-60. | 5.8 | 21 |
| 70 | Ontological query answering under expressive Entityâ€“Relationship schemata. Information Systems, 2012, 37, 320-335. | 3.6 | 25 |
| 71 | Querying UML Class Diagrams. Lecture Notes in Computer Science, 2012, , 1-25. | 1.3 | 9 |
| 72 | Datalog and Its Extensions for Semantic Web Databases. Lecture Notes in Computer Science, 2012, , 54-77. | 1.3 | 8 |

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| 73 | DIADEM: Domains to Databases. Lecture Notes in Computer Science, 2012, , 1-8. | 1.3 | 0 |
| 74 | The Return of the Entity-Relationship Model: Ontological Query Answering. Data-centric Systems and Applications, 2012, , 255-281. | 0.2 | 1 |
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| 78 | Real understanding of real estate forms. , 2011, , . | | 13 |
| 79 | Normalization and optimization of schema mappings. VLDB Journal, 2011, 20, 277. | 4.1 | 12 |
| 80 | Taking the OXPath down the deep web. , 2011, , . | | 1 |
| 81 | Determining relevance of accesses at runtime. , 2011, , . | | 12 |
| 82 | OXPath. , 2011, , . | | 2 |
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| 88 | Answering Threshold Queries in Probabilistic Datalog+/â€“ Ontologies. Lecture Notes in Computer Science, 2011, , 401-414. | 1.3 | 6 |
| 89 | Datalog+/-: A Family of Languages for Ontology Querying. Lecture Notes in Computer Science, 2011, , 351-368. | 1.3 | 15 |
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| 91 | On Minimal Constraint Networks. Lecture Notes in Computer Science, 2011, , 325-339. | 1.3 | 3 |
| 92 | Querying Conceptual Schemata with Expressive Equality Constraints. Lecture Notes in Computer Science, 2011, , 161-174. | 1.3 | 2 |
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| 95 | Tractable database design and datalog abduction through bounded treewidth. Information Systems, 2010, 35, 278-298. | 3.6 | 14 |
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| 102 | Querying the Guarded Fragment. , 2010, , . | | 35 |
| 103 | Semantic Web Search Based on Ontological Conjunctive Queries. Lecture Notes in Computer Science, 2010, , 153-172. | 1.3 | 15 |
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| 109 | Balanced Queries: Divide and Conquer. Lecture Notes in Computer Science, 2010, , 42-54. | 1.3 | 0 |
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| 147 | The INFOMIX system for advanced integration of incomplete and inconsistent data. , 2005, , . | | 49 |
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| 156 | Monadic datalog and the expressive power of languages for Web information extraction. Journal of the ACM, 2004, 51, 74-113. | 2.2 | 119 |
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| 161 | Robbers, marshals, and guards: game theoretic and logical characterizations of hypertree width. Journal of Computer and System Sciences, 2003, 66, 775-808. | 1.2 | 80 |
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| 180 | Robbers, marshals, and guards. , 2001, , . | | 12 |

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