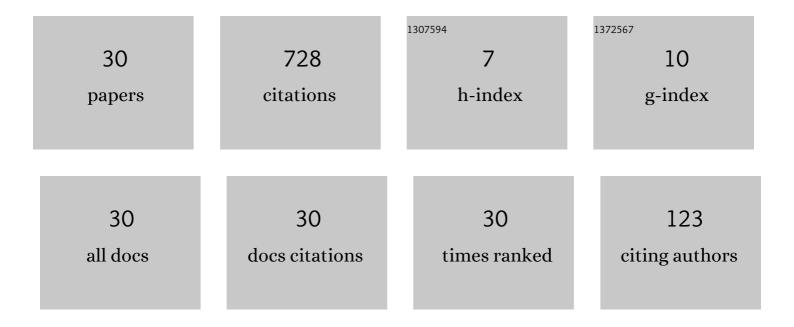
Thomas Helmuth

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Problem-Solving Benefits of Down-Sampled Lexicase Selection. Artificial Life, 2022, 27, 183-203. | 1.3 | 11 |
| 2 | Applying genetic programming to PSB2: the next generation program synthesis benchmark suite. Genetic Programming and Evolvable Machines, 2022, 23, 375-404. | 2.2 | 7 |
| 3 | PSB2., 2021,,. | | 24 |
| 4 | Lexicase Selection. , 2021, , . | | 0 |
| 5 | On the importance of specialists for lexicase selection. Genetic Programming and Evolvable Machines, 2020, 21, 349-373. | 2.2 | 15 |
| 6 | Genetic Source Sensitivity and Transfer Learning in Genetic Programming. , 2020, , . | | 11 |
| 7 | Explaining and Exploiting the Advantages of Down-sampled Lexicase Selection. , 2020, , . | | 15 |
| 8 | Benchmarking parent selection for program synthesis by genetic programming. , 2020, , . | | 15 |
| 9 | A Probabilistic and Multi-Objective Analysis of Lexicase Selection and ε-Lexicase Selection. Evolutionary Computation, 2019, 27, 377-402. | 3.0 | 43 |
| 10 | Lexicase selection of specialists. , 2019, , . | | 16 |
| 11 | Comparing and combining lexicase selection and novelty search. , 2019, , . | | 9 |
| 12 | Program synthesis using uniform mutation by addition and deletion. , 2018, , . | | 42 |
| 13 | A comparison of semantic-based initialization methods for genetic programming. , 2018, , . | | 3 |
| 14 | Specialization and elitism in lexicase and tournament selection. , 2018, , . | | 5 |
| 15 | Relaxations of Lexicase Parent Selection. Genetic and Evolutionary Computation, 2018, , 105-120. | 1.0 | 20 |
| 16 | Lexicase Selection with Weighted Shuffle. Genetic and Evolutionary Computation, 2018, , 89-104. | 1.0 | 4 |
| 17 | On the difficulty of benchmarking inductive program synthesis methods. , 2017, , . | | 13 |
| 18 | Improving generalization of evolved programs through automatic simplification. , 2017, , . | | 45 |

Improving generalization of evolved programs through automatic simplification. , 2017, , . 18

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | The Impact of Hyperselection on Lexicase Selection. , 2016, , . | | 23 |
| 20 | Visualizing Genetic Programming Ancestries. , 2016, , . | | 13 |
| 21 | Effects of Lexicase and Tournament Selection on Diversity Recovery and Maintenance. , 2016, , . | | 23 |
| 22 | Using Graph Databases to Explore the Dynamics of Genetic Programming Runs. Genetic and Evolutionary Computation, 2016, , 185-201. | 1.0 | 8 |
| 23 | Lexicase Selection for Program Synthesis: A Diversity Analysis. Genetic and Evolutionary Computation, 2016, , 151-167. | 1.0 | 33 |
| 24 | Solving Uncompromising Problems With Lexicase Selection. IEEE Transactions on Evolutionary Computation, 2015, 19, 630-643. | 10.0 | 119 |
| 25 | General Program Synthesis Benchmark Suite. , 2015, , . | | 121 |
| 26 | Comparison of Semantic-aware Selection Methods in Genetic Programming. , 2015, , . | | 27 |
| 27 | Word count as a traditional programming benchmark problem for genetic programming. , 2014, , . | | 11 |
| 28 | Uniform Linear Transformation with Repair and Alternation in Genetic Programming. Genetic and Evolutionary Computation, 2014, , 137-153. | 1.0 | 7 |
| 29 | Evolving a digital multiplier with the pushgp genetic programming system. , 2013, , . | | 12 |
| 30 | Tag-based modules in genetic programming. , 2011, , . | | 33 |