

# Stephen H Muggleton

## List of Publications by Year in descending order

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53  
papers

4,838  
citations

304743

22  
h-index

189892

50  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2241  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inductive logic programming at 30. Machine Learning, 2022, 111, 147-172.	5.4	18
2	Human-Like Rule Learning from Images Using One-Shot Hypothesis Derivation. Lecture Notes in Computer Science, 2022, , 234-250.	1.3	4
3	Top program construction and reduction for polynomial time Meta-Interpretive learning. Machine Learning, 2021, 110, 755-778.	5.4	2
4	Beneficial and harmful explanatory machine learning. Machine Learning, 2021, 110, 695-721.	5.4	17
5	Abductive Knowledge Induction from Raw Data. , 2021, , .		8
6	Learning higher-order logic programs. Machine Learning, 2020, 109, 1289-1322.	5.4	10
7	Turning 30: New Ideas in Inductive Logic Programming. , 2020, , .		35
8	Complete Bottom-Up Predicate Invention in Meta-Interpretive Learning. , 2020, , .		3
9	Special Issue on Semantic Technology. New Generation Computing, 2019, 37, 359-360.	3.3	0
10	Machine Discovery of Comprehensible Strategies for Simple Games Using Meta-interpretive Learning. New Generation Computing, 2019, 37, 203-217.	3.3	3
11	Learning efficient logic programs. Machine Learning, 2019, 108, 1063-1083.	5.4	18
12	Ultra-Strong Machine Learning: comprehensibility of programs learned with ILP. Machine Learning, 2018, 107, 1119-1140.	5.4	67
13	Meta-Interpretive Learning from noisy images. Machine Learning, 2018, 107, 1097-1118.	5.4	17
14	How Much Can Experimental Cost Be Reduced in Active Learning of Agent Strategies?. Lecture Notes in Computer Science, 2018, , 38-53.	1.3	0
15	Logical Vision: One-Shot Meta-Interpretive Learning from Real Images. Lecture Notes in Computer Science, 2018, , 46-62.	1.3	6
16	How Does Predicate Invention Affect Human Comprehensibility?. Lecture Notes in Computer Science, 2017, , 52-67.	1.3	10
17	Meta-Interpretive Learning of Data Transformation Programs. Lecture Notes in Computer Science, 2016, , 46-59.	1.3	14
18	Towards Machine Learning of Predictive Models from Ecological Data. Lecture Notes in Computer Science, 2015, , 154-167.	1.3	7

#	ARTICLE	IF	CITATIONS
19	Meta-interpretive learning of higher-order dyadic datalog: predicate invention revisited. <i>Machine Learning</i> , 2015, 100, 49-73.	5.4	94
20	Incorporating Virtual Reactions into a Logic-Based Ligand-Based Virtual Screening Method to Discover New Leads. <i>Molecular Informatics</i> , 2015, 34, 615-625.	2.5	3
21	Logical Minimisation of Meta-Rules Within Meta-Interpretive Learning. <i>Lecture Notes in Computer Science</i> , 2015, , 62-75.	1.3	16
22	Inductive programming meets the real world. <i>Communications of the ACM</i> , 2015, 58, 90-99.	4.5	78
23	Meta-interpretive learning: application to grammatical inference. <i>Machine Learning</i> , 2014, 94, 25-49.	5.4	77
24	Construction and Validation of Food Webs Using Logic-Based Machine Learning and Text Mining. <i>Advances in Ecological Research</i> , 2013, 49, 225-289.	2.7	40
25	Guest editorial: special issue on Inductive Logic Programming (ILP 2011). <i>Machine Learning</i> , 2012, 89, 213-214.	5.4	2
26	Automated identification of protein-ligand interaction features using Inductive Logic Programming: a hexose binding case study. <i>BMC Bioinformatics</i> , 2012, 13, 162.	2.6	12
27	ILP turns 20. <i>Machine Learning</i> , 2012, 86, 3-23.	5.4	91
28	WIBL: Workbench for Integrative Biological Learning. <i>Journal of Integrative Bioinformatics</i> , 2011, 8, 14-22.	1.5	1
29	Automated Discovery of Food Webs from Ecological Data Using Logic-Based Machine Learning. <i>PLoS ONE</i> , 2011, 6, e29028.	2.5	56
30	Chess Revision: Acquiring the Rules of Chess Variants through FOL Theory Revision from Examples. <i>Lecture Notes in Computer Science</i> , 2010, , 123-130.	1.3	10
31	Multi-Class protein fold recognition using large margin logic based divide and conquer learning. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery &amp; Data Mining</i> , 2010, 11, 117-122.	4.0	4
32	The lattice structure and refinement operators for the hypothesis space bounded by a bottom clause. <i>Machine Learning</i> , 2009, 76, 37-72.	5.4	15
33	QG/GA: a stochastic search for Progol. <i>Machine Learning</i> , 2008, 70, 121-133.	5.4	16
34	Learning probabilistic logic models from probabilistic examples. <i>Machine Learning</i> , 2008, 73, 55-85.	5.4	15
35	Structured machine learning: the next ten years. <i>Machine Learning</i> , 2008, 73, 3-23.	5.4	90
36	Scaffold Hopping in Drug Discovery Using Inductive Logic Programming. <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 949-957.	5.4	38

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37	The Identification of Similarities between Biological Networks: Application to the Metabolome and Interactome. <i>Journal of Molecular Biology</i> , 2007, 369, 1126-1139.	4.2	32
38	Modeling the effects of toxins in metabolic networks. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2007, 26, 37-46.	0.8	10
39	Exceeding human limits. <i>Nature</i> , 2006, 440, 409-410.	27.8	52
40	Mathematical applications of inductive logic programming. <i>Machine Learning</i> , 2006, 64, 25-64.	5.4	11
41	Application of abductive ILP to learning metabolic network inhibition from temporal data. <i>Machine Learning</i> , 2006, 64, 209-230.	5.4	71
42	Functional genomic hypothesis generation and experimentation by a robot scientist. <i>Nature</i> , 2004, 427, 247-252.	27.8	481
43	The Automatic Discovery of Structural Principles Describing Protein Fold Space. <i>Journal of Molecular Biology</i> , 2003, 330, 839-850.	4.2	22
44	Automated discovery of structural signatures of protein fold and function <sup>11</sup> Edited by J. Thornton. <i>Journal of Molecular Biology</i> , 2001, 306, 591-605.	4.2	35
45	Pharmacophore Discovery Using the Inductive Logic Programming System PROGOL. <i>Machine Learning</i> , 1998, 30, 241-270.	5.4	100
46	Learning programs in the event calculus. <i>Lecture Notes in Computer Science</i> , 1997, , 205-212.	1.3	24
47	Learning from positive data. <i>Lecture Notes in Computer Science</i> , 1997, , 358-376.	1.3	82
48	Inverse entailment and prolog. <i>New Generation Computing</i> , 1995, 13, 245-286.	3.3	1,001
49	Inductive Logic Programming: Theory and methods. <i>The Journal of Logic Programming</i> , 1994, 19-20, 629-679.	1.7	952
50	Protein secondary structure prediction using logic-based machine learning. <i>Protein Engineering, Design and Selection</i> , 1992, 5, 647-657.	2.1	191
51	Compression, Significance and Accuracy. , 1992, , 338-347.		28
52	Inductive logic programming. <i>New Generation Computing</i> , 1991, 8, 295-318.	3.3	550
53	Machine Invention of First-order Predicates by Inverting Resolution. , 1988, , 339-352.		223