

# Why and How to Learn Why: Analysis-based Generaliza

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Panel Session Theoretical Models for System Design. Proceedings of the Human Factors Society Annual Meeting, 1989, 33, 278-280.	0.1	0
2	Instruction and High-level Learning in Connectionist Networks. Connection Science, 1989, 1, 161-180.	3.0	43
3	Generalization, consistency, and control. , 1989, , .		3
4	Self-Explanations: How Students Study and Use Examples in Learning to Solve Problems. Cognitive Science, 1989, 13, 145-182.	1.7	1,427
5	Generalization, consistency, and control. ACM SIGCHI Bulletin, 1989, 20, 1-5.	0.1	1
6	Concepts of Potency and Resistance in Causal Prediction. Child Development, 1989, 60, 1307.	3.0	18
7	Empowering the student: prospects for an unintelligent tutoring system. , 1990, , .		3
8	Semantic analysis during exploratory learning. , 1990, , .		5
9	An experimental evaluation of different amounts of receptive and exploratory learning in a tutoring system. Computers in Human Behavior, 1990, 6, 51-68.	8.5	4
10	Cognitive tools for locating and comprehending software objects for reuse. , 0, , .		32
11	Controlling the process of learning from an example through adaptive generalization of episodic memory. Fuzzy Sets and Systems, 1991, 39, 133-162.	2.7	3
12	Predicting the learnability of task-action mappings. , 1991, , .		19
13	A descriptive study of mental models. Behaviour and Information Technology, 1991, 10, 3-21.	4.0	68
14	Explorability: inferences at the interface. , 1992, , .		0
15	The Case for Rules in Reasoning. Cognitive Science, 1992, 16, 1-40.	1.7	197
16	Design and implementation of an experimental cataloging advisor-mapper. Information Processing and Management, 1992, 28, 241-257.	8.6	5
17	Explanation and artificial neural networks. International Journal of Man-Machine Studies, 1992, 37, 335-355.	0.7	41
18	Reasoning in explanation-based decision making. Cognition, 1993, 49, 123-163.	2.2	262

#	ARTICLE	IF	CITATIONS
19	Reducing the variability of programmers' performance through explained examples. , 1993, , .		17
20	The Role of Examples in the Teaching of Programming Languages. Journal of Educational Computing Research, 1993, 9, 115-129.	5.5	6
21	Why is a raven like a writing desk?. , 1994, , .		14
22	Modeling cataloging expertise: A feasibility study. Information Processing and Management, 1994, 30, 119-129.	8.6	2
23	Students' Off-Line and On-Line Experiences. Journal of Educational Computing Research, 1995, 12, 109-134.	5.5	7
24	Self-disclosing design tools. , 1995, , .		22
25	Looking for Transfer and Interference. Psychology of Learning and Motivation - Advances in Research and Theory, 1995, , 223-289.	1.1	4
26	Learning from performance errors.. Psychological Review, 1996, 103, 241-262.	3.8	257
27	Learning Consistent, Interactive, and Meaningful Task-Action Mappings: A Computational Model. Cognitive Science, 1996, 20, 301-356.	1.7	8
28	A dual-space model of iteratively deepening exploratory learning. International Journal of Human Computer Studies, 1996, 44, 743-775.	5.6	57
29	A field study of exploratory learning strategies. ACM Transactions on Computer-Human Interaction, 1996, 3, 189-218.	5.7	133
30	Behaviour combination through analogy. , 0, , .		4
31	Knowledge and Situational Feedback in a Learning Environment for Algebra Story Problem Solving. Interactive Learning Environments, 1998, 5, 135-159.	6.4	52
32	Illustrating Principled Design: The Early Evolution of a Cognitive Tutor for Algebra Symbolization. Interactive Learning Environments, 1998, 5, 161-179.	6.4	78
33	Towards explaining the behaviour of novice users. International Journal of Human Computer Studies, 1999, 50, 557-570.	5.6	9
35	Computational Models of Skill Acquisition. , 2001, , 359-395.		13
37	The development of flexibility in equation solving. Contemporary Educational Psychology, 2006, 31, 280-300.	2.9	89
38	The structure and function of explanations. Trends in Cognitive Sciences, 2006, 10, 464-470.	7.8	445

#	ARTICLE	IF	CITATIONS
39	Functional explanation and the function of explanation. <i>Cognition</i> , 2006, 99, 167-204.	2.2	273
40	Cognitive Walkthrough pour l'Évaluation des IHM. , 2007, , .		3
41	The role of self-explanation in learning to use a spreadsheet through examples. <i>Journal of Computer Assisted Learning</i> , 2008, 16, 316-325.	5.1	16
42	Developing Prospective Elementary Teachers' Flexibility in the Domain of Proportional Reasoning. <i>Mathematical Thinking and Learning</i> , 2009, 11, 113-135.	1.2	48
43	The Role of Explanation in Discovery and Generalization: Evidence From Category Learning. <i>Cognitive Science</i> , 2010, 34, 776-806.	1.7	158
44	State of the Art on the Cognitive Walkthrough Method, Its Variants and Evolutions. <i>International Journal of Human-Computer Interaction</i> , 2010, 26, 741-785.	4.8	178
45	The Knowledgeâ€Learningâ€Instruction Framework: Bridging the Scienceâ€Practice Chasm to Enhance Robust Student Learning. <i>Cognitive Science</i> , 2012, 36, 757-798.	1.7	350
46	The Usability of Print and Online Video Instructions. <i>Technical Communication Quarterly</i> , 2013, 22, 237-259.	1.6	46
47	Learning Problemâ€Solving Rules as Search Through a Hypothesis Space. <i>Cognitive Science</i> , 2016, 40, 1036-1079.	1.7	10
48	Developing preservice elementary teachersâ€™ specialized content knowledge: the case of associative property. <i>International Journal of STEM Education</i> , 2016, 3, .	5.0	4
49	Opportunities to Learn: Inverse Relations in U.S. and Chinese Textbooks. <i>Mathematical Thinking and Learning</i> , 2016, 18, 45-68.	1.2	19
50	On mathematical understanding: perspectives of experienced Chinese mathematics teachers. <i>Journal of Mathematics Teacher Education</i> , 2017, 20, 5-29.	1.8	32
51	Embellishing Problem-Solving Examples with Deep Structure Information Facilitates Transfer. <i>Journal of Experimental Education</i> , 2017, 85, 309-333.	2.6	10
52	Learning by explaining examples to oneself: A computational model. , 1993, , 25-82.		22
53	Analysis-based Learning on Multiple Levels of Mental Domain Representation. , 1992, , 103-127.		8
54	Action Centred Manuals or Minimalist Instruction? Alternative Theories for Carrollâ€™s Minimal Manuals. , 1992, , 222-243.		7
55	Self-explanations: How students study and use examples in learning to solve problems. <i>Cognitive Science</i> , 1989, 13, 145-182.	1.7	562
56	Inductive Knowlegde Acquisition for a Unix Coach. <i>Human Factors in Information Technology</i> , 1991, , 313-335.	0.2	4

#	ARTICLE	IF	CITATIONS
57	Causal Analysis and Inductive Learning. , 1987, , 288-299.		8
58	Integration of Analogical Search Control and Explanation-Based Learning of Correctness. , 1993, , 273-315.		7
59	Learning consistent, interactive, and meaningful task-action mappings: A computational model. Cognitive Science, 1996, 20, 301-356.	1.7	14
60	Linking surface error characteristics to root problems in user-based evaluation studies. , 1998, ,		3
61	Flexibly Instructable Agents. Journal of Artificial Intelligence Research, 0, 3, 271-324.	7.0	45
63	Computer supported interaction analysis of group problem solving. , 1999, , .		51
65	Designing self-monitoring warm-up strategy with Blog-based learning system to support knowledge building. Knowledge Management and E-Learning, 2012, , 78-87.	0.6	0
66	MENTAL MODEL AND PROCEDURAL ELEMENTS APPROACHES AS GUIDELINES FOR DESIGNING WORD PROCESSING INSTRUCTIONS. , 1987, , 269-274.		1
67	Explanation and Connectionism. Informatik-Fachberichte, 1989, , 118-127.	0.2	1
68	An Integrative Model of Learning by Being Told, from Examples and by Exploration. Informatik-Fachberichte, 1989, , 433-437.	0.2	0
70	The Importance of Causal Structure and Facts in Evaluating Explanations. , 1991, , 51-54.		0
71	Learning Physics Via Explanation-based Learning of Correctness and Analogical Search Control. , 1991, , 110-114.		3
72	The Flexible Use of Multiple Mental Domain Representations. , 1993, , 77-89.		1
74	Cognitive Modelling: Experiences in Human-Computer Interaction. , 1995, , 97-112.		1
77	Computational Models of Skill Acquisition. , 2023, , 527-566.		0