

Explanation-based generalization: A unifying view

Machine Learning

1, 47-80

DOI: [10.1007/bf00116250](https://doi.org/10.1007/bf00116250)

Citation Report

#	ARTICLE	IF	CITATIONS
1	A knowledge-intensive learning system for document retrieval. , 1989, , 65-87.		4
2	Learning plan abstractions. , 1993, , 187-198.		4
3	Programming by demonstration: dual-arm manipulation tasks for humanoid robots. , 0, , .		70
4	Robotic action planning with the application of explanation-based learning. , 0, , .		1
5	Chunking in Soar: The anatomy of a general learning mechanism. Machine Learning, 1986, 1, 11-46.	5.4	289
6	Experimental goal regression: A method for learning problem-solving heuristics. Machine Learning, 1986, 1, 249-285.	5.4	25
7	Chunking in Soar: The Anatomy of a General Learning Mechanism. Machine Learning, 1986, 1, 11-46.	5.4	262
8	Experimental Goal Regression: A Method for Learning Problem-Solving Heuristics. Machine Learning, 1986, 1, 249-285.	5.4	22
9	Explanation-Based Learning: An Alternative View. Machine Learning, 1986, 1, 145-176.	5.4	436
10	Complementing explanation with induction. Behavioral and Brain Sciences, 1986, 9, 655-656.	0.7	0
11	Approaches, assumptions, and goals in modeling cognitive behavior. Behavioral and Brain Sciences, 1986, 9, 665-666.	0.7	0
12	Transcending inductive category formation in learning. Behavioral and Brain Sciences, 1986, 9, 639-651.	0.7	140
13	Category learning: Things aren't so black and white. Behavioral and Brain Sciences, 1986, 9, 651-651.	0.7	0
14	Are there static category representations in long-term memory?. Behavioral and Brain Sciences, 1986, 9, 651-652.	0.7	12
15	Toward a cognitive science of category learning. Behavioral and Brain Sciences, 1986, 9, 652-653.	0.7	0
16	Relevant features and statistical models of generalization. Behavioral and Brain Sciences, 1986, 9, 653-654.	0.7	1
17	Induction: Weak but essential. Behavioral and Brain Sciences, 1986, 9, 654-655.	0.7	0
18	Transcending "transcending" Behavioral and Brain Sciences, 1986, 9, 656-657.	0.7	0

#	ARTICLE	IF	CITATIONS
19	Clarity, generality, and efficiency in models of learning: Wringing the MOP. Behavioral and Brain Sciences, 1986, 9, 657-658.	0.7	0
20	Second-generation AI theories of learning. Behavioral and Brain Sciences, 1986, 9, 658-659.	0.7	1
21	New failures to learn. Behavioral and Brain Sciences, 1986, 9, 660-661.	0.7	0
22	Induction and explanation: Complementary models of learning. Behavioral and Brain Sciences, 1986, 9, 661-662.	0.7	0
23	When explanation is too hard (or understanding hijacking for novices). Behavioral and Brain Sciences, 1986, 9, 662-663.	0.7	1
24	Of what use categories?. Behavioral and Brain Sciences, 1986, 9, 663-664.	0.7	0
25	The psychology of category learning: Current status and future prospect. Behavioral and Brain Sciences, 1986, 9, 664-665.	0.7	0
26	Theory-laden concepts: Great, but what is the next step?. Behavioral and Brain Sciences, 1986, 9, 666-667.	0.7	0
27	Category differences/automaticity. Behavioral and Brain Sciences, 1986, 9, 667-667.	0.7	0
28	Salvaging parts of the "classical theory" of categorization. Behavioral and Brain Sciences, 1986, 9, 668-668.	0.7	1
29	The pragmatics of induction. Behavioral and Brain Sciences, 1986, 9, 668-669.	0.7	0
30	Rejecting induction: Using occam's razor too soon. Behavioral and Brain Sciences, 1986, 9, 669-670.	0.7	0
31	The hard questions about noninductive learning remain unanswered. Behavioral and Brain Sciences, 1986, 9, 670-670.	0.7	0
32	Are there really two types of learning?. Behavioral and Brain Sciences, 1986, 9, 671-671.	0.7	0
33	The learning of function and the function of learning. Behavioral and Brain Sciences, 1986, 9, 672-686.	0.7	0
34	Induction and probability. Behavioral and Brain Sciences, 1986, 9, 660-660.	0.7	0
35	Experiments with Incremental Concept Formation: UNIMEM. Machine Learning, 1987, 2, 103-138.	5.4	101
36	A Review of the Fourth International Workshop on Machine Learning. Machine Learning, 1987, 2, 173-190.	5.4	2

#	ARTICLE	IF	CITATIONS
38	Theories of Knowledge Restructuring in Development. Review of Educational Research, 1987, 57, 51-67.	7.5	378
39	Assessing Credit Card Applications Using Machine Learning. IEEE Intelligent Systems, 1987, 2, 71-79.	1.0	157
41	Explanation-based learning for knowledge-based systems. International Journal of Man-Machine Studies, 1987, 26, 413-433.	0.7	23
42	Induction of Horn clauses: methods and the plausible generalization algorithm. International Journal of Man-Machine Studies, 1987, 26, 499-519.	0.7	14
43	Similarity-based learning and its extensions. Computational Intelligence, 1987, 3, 241-266.	3.2	6
44	Cohesion methods in inductive learning. Computational Intelligence, 1987, 3, 267-282.	3.2	4
45	Generalized subsumption and its applications to induction and redundancy. Artificial Intelligence, 1988, 36, 149-176.	5.8	138
46	Automatic knowledge base refinement for classification systems. Artificial Intelligence, 1988, 35, 197-226.	5.8	90
47	Defining operationality for explanation-based learning. Artificial Intelligence, 1988, 35, 227-241.	5.8	53
48	Comparative analysis. Artificial Intelligence, 1988, 36, 333-373.	5.8	45
49	Explanation-based generalisation = partial evaluation. Artificial Intelligence, 1988, 36, 401-412.	5.8	84
50	Theory formation in postulating enzyme kinetic mechanisms: Reasoning with constraints. Journal of Biomedical Informatics, 1988, 21, 381-403.	0.7	6
51	Using a metatheory as a functional representation. International Journal of Intelligent Systems, 1988, 3, 295-314.	5.7	1
52	A formal analysis of machine learning systems for knowledge acquisition. International Journal of Man-Machine Studies, 1988, 29, 429-446.	0.7	19
53	Using concept learning for knowledge acquisition. International Journal of Man-Machine Studies, 1988, 29, 171-196.	0.7	35
54	Machine learning research at the Laboratoire de Recherche en Informatique at Orsay, France. Computational Intelligence, 1988, 4, 212-221.	3.2	0
55	Generating rules for expert systems from observations. Pattern Recognition Letters, 1988, 7, 265-271.	4.2	13
56	Protos: an exemplar-based learning apprentice. International Journal of Man-Machine Studies, 1988, 29, 549-561.	0.7	50

#	ARTICLE	IF	CITATIONS
57	Acquiring strategic knowledge from experts. International Journal of Man-Machine Studies, 1988, 29, 579-597.	0.7	24
58	A learning system for communications network configuration. Engineering Applications of Artificial Intelligence, 1988, 1, 151-160.	8.1	2
59	Preschool children can learn to transfer: Learning to learn and learning from example. Cognitive Psychology, 1988, 20, 493-523.	2.2	355
60	Why and How to Learn Why: Analysis-based Generalization of Procedures. Cognitive Science, 1988, 12, 211-256.	1.7	77
61	Credit Assignment in Rule Discovery Systems Based on Genetic Algorithms. Machine Learning, 1988, 3, 225-245.	5.4	30
62	A Review of Machine Learning at AAAI-87. Machine Learning, 1988, 3, 79-92.	5.4	3
63	Title is missing!. Machine Learning, 1988, 3, 45-77.	5.4	17
64	Argo: a system for design by analogy. , 0, , .		2
65	Argo: a system for design by analogy. IEEE Intelligent Systems, 1988, 3, 53-68.	1.0	21
66	Learning preference rules for a VLSI design problem-solver. , 0, , .		9
67	Credit assignment in rule discovery systems based on genetic algorithms. Machine Learning, 1988, 3, 225-245.	5.4	309
68	Learning dominance relations in combined search problems. IEEE Transactions on Software Engineering, 1988, 14, 1155-1175.	5.6	17
69	An Integrated Computational Model of Stimulus-Response Compatibility and Practice. Psychology of Learning and Motivation - Advances in Research and Theory, 1988, 21, 1-52.	1.1	24
70	Knowledge acquisition in image processing expert system 'EXPLAIN'. , 0, , .		4
71	Medical Expert Systems: Issues of Validation, Evaluation and Judgment. , 0, , .		2
72	Machine Learning of Robot Assembly Plans. Kluwer International Series in Engineering and Computer Science, 1988, , .	0.2	58
73	An intelligent design machine: architecture and search strategies. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 1988, 2, 105-122.	1.1	1
74	Machine Learning Strategies for Knowledge Acquisition in Autonomous Robot Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1988, 21, 5-15.	0.4	5

#	ARTICLE	IF	CITATIONS
75	An Introduction to Explanation-based Learning. , 1988, , 45-81.		26
76	Learning and applying generalised solutions using higher order resolution. , 1988, , 41-60.		7
77	Machine Invention of First-order Predicates by Inverting Resolution. , 1988, , 339-352.		223
78	Knowledge base refinement using apprenticeship learning techniques. , 1989, , 247-257.		25
79	The central role of explanations in disciple. , 1989, , 135-147.		6
80	Models of Expertise in Knowledge Acquisition. Studies in Computer Science and Artificial Intelligence, 1989, , 265-295.	0.3	69
81	Creating high level knowledge structures from simple elements. , 1989, , 258-288.		1
82	Unifying Themes in Empirical and Explanation-Based Learning. , 1989, , 2-4.		4
83	Two-tiered concept meaning, inferential matching, and conceptual cohesiveness. , 1989, , 122-145.		13
84	Use of analogy in a production system architecture. , 1989, , 267-297.		46
85	The potential of machine learning techniques for expert systems. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 1989, 3, 175-193.	1.1	13
86	Methods generalization based on concept hierarchy. , 0, , .		0
87	Schematic rules within unfold/fold approach to program transformation. , 0, , .		0
88	The Role Of Simulation In Machine Learning Research. , 0, , .		2
89	The role of learning in logic synthesis. , 0, , .		1
90	Embedding learning in a general frame-based architecture. , 0, , .		8
91	Explanation-based learning of diagnostic heuristics: a comparison of learning from success and failure. , 0, , .		1
92	Knowledge intensive empirical learning using multiple levels of background knowledge. , 0, , .		0

#	ARTICLE	IF	CITATIONS
93	Instruction and High-level Learning in Connectionist Networks. Connection Science, 1989, 1, 161-180.	3.0	43
94	In-Depth Natural Language Understanding: A Challenge for Machine Learning. Irish Journal of Psychology, 1989, 10, 291-303.	0.2	3
95	MESICAR-A MEDICAL EXPERT SYSTEM INTEGRATING CAUSAL AND ASSOCIATIVE REASONING. Applied Artificial Intelligence, 1989, 3, 305-336.	3.2	13
96	Learning from historical precedent. , 0, , .		0
97	Acquiring knowledge by explaining observed problem solving. ACM SIGART Bulletin, 1989, , 77-83.	0.5	2
98	Theory formation in artificial intelligence. , 1989, , .		0
99	Self-Explanations: How Students Study and Use Examples in Learning to Solve Problems. Cognitive Science, 1989, 13, 145-182.	1.7	1,427
100	The MEDIATOR: Analysis of an Early Case-Based Problem Solver4. Cognitive Science, 1989, 13, 507-549.	1.7	132
101	Automatic' learning strategies and their application to electrophoresis analysis. Computerized Medical Imaging and Graphics, 1989, 13, 383-391.	5.8	2
102	Causal modelling of semiconductor fabrication. Advanced Engineering Informatics, 1989, 4, 2-21.	0.5	5
103	A framework for knowledge acquisition through techniques of concept learning. IEEE Transactions on Systems, Man, and Cybernetics, 1989, 19, 499-512.	0.9	15
104	Toward AI research methodology: three case studies in evaluation. IEEE Transactions on Systems, Man, and Cybernetics, 1989, 19, 634-646.	0.9	32
105	Concept recognition: An approximate reasoning framework. International Journal of Intelligent Systems, 1989, 4, 23-44.	5.7	4
106	Computational approaches to analogical reasoning. Artificial Intelligence, 1989, 39, 39-120.	5.8	177
107	Introduction:Paradigms for machine learning. Artificial Intelligence, 1989, 40, 1-9.	5.8	76
108	Explanation-based learning:A problem solving perspective. Artificial Intelligence, 1989, 40, 63-118.	5.8	156
109	Design by derivational analogy:Issues in the automated replay of design plans. Artificial Intelligence, 1989, 40, 119-184.	5.8	85
110	A theory of the origins of human knowledge. Artificial Intelligence, 1989, 40, 313-351.	5.8	89

#	ARTICLE	IF	CITATIONS
111	Creativity and learning in a case-based explainer. <i>Artificial Intelligence</i> , 1989, 40, 353-385.	5.8	104
112	Requirements of a reasoning system that supports creative and innovative design activity. <i>Knowledge-Based Systems</i> , 1989, 2, 62-71.	7.1	11
113	A model of integrated learning. <i>Knowledge-Based Systems</i> , 1989, 2, 83-98.	7.1	3
114	Machine learning: a survey of current techniques. <i>Artificial Intelligence Review</i> , 1989, 3, 243-280.	15.7	11
115	Knowledge acquisition by incremental learning from problem-solution pairs. <i>Computational Intelligence</i> , 1989, 5, 58-66.	3.2	1
116	Explicitly biased generalization. <i>Computational Intelligence</i> , 1989, 5, 67-81.	3.2	27
117	On Learning Sets and Functions. <i>Machine Learning</i> , 1989, 4, 67-97.	5.4	47
118	Can Machine Learning Offer Anything to Expert Systems?. <i>Machine Learning</i> , 1989, 4, 251-254.	5.4	4
119	LT Revisited: Explanation-Based Learning and the Logic of Principia Mathematica. <i>Machine Learning</i> , 1989, 4, 117-159.	5.4	13
120	A Study of Explanation-Based Methods for Inductive Learning. <i>Machine Learning</i> , 1989, 4, 187-226.	5.4	123
121	A Heuristic Approach to the Discovery of Macro-Operators. <i>Machine Learning</i> , 1989, 3, 285-317.	5.4	37
122	Conceptual Clustering, Categorization, and Polymorphy. <i>Machine Learning</i> , 1989, 3, 343-372.	5.4	39
123	Acquisition of associative knowledge by the frustration-based learning method in an auxiliary-line problem. <i>International Journal of Human-Computer Studies</i> , 1989, 1, 113-137.	1.2	6
124	Conceptual clustering, categorization, and polymorphy. <i>Machine Learning</i> , 1989, 3, 343-372.	5.4	99
125	On learning sets and functions. <i>Machine Learning</i> , 1989, 4, 67-97.	5.4	100
126	A heuristic approach to the discovery of macro-operators. <i>Machine Learning</i> , 1989, 3, 285-317.	5.4	93
127	Can machine learning offer anything to expert systems?. <i>Machine Learning</i> , 1989, 4, 251-254.	5.4	22
128	An artificial intelligence framework for online transient stability assessment of power systems. <i>IEEE Transactions on Power Systems</i> , 1989, 4, 789-800.	6.5	117

#	ARTICLE	IF	CITATIONS
129	Substructure discovery of macro-operators. , 0, , .		0
130	The effect of data character on empirical concept learning. , 0, , .		4
131	Finding and learning explanatory connections from scientific texts. , 0, , .		1
132	An Approach to Combining Explanation-based and Neural Learning Algorithms. Connection Science, 1989, 1, 231-253.	3.0	64
133	Learning techniques for query optimization in federated database systems. , 0, , .		0
134	Explanatory coherence. Behavioral and Brain Sciences, 1989, 12, 435-467.	0.7	775
135	Explanation and acceptability. Behavioral and Brain Sciences, 1989, 12, 467-468.	0.7	3
136	When weak explanations prevail. Behavioral and Brain Sciences, 1989, 12, 468-469.	0.7	1
137	Explanatory coherence as a psychological theory. Behavioral and Brain Sciences, 1989, 12, 469-470.	0.7	1
138	Assimilating evidence: The key to revision?. Behavioral and Brain Sciences, 1989, 12, 470-471.	0.7	1
139	Two problems for the explanatory coherence theory of acceptability. Behavioral and Brain Sciences, 1989, 12, 471-471.	0.7	0
140	Thagard's Principle 7 and Simpson's paradox. Behavioral and Brain Sciences, 1989, 12, 472-473.	0.7	0
141	On the testability of ECHO. Behavioral and Brain Sciences, 1989, 12, 474-474.	0.7	0
142	What's in a link?. Behavioral and Brain Sciences, 1989, 12, 474-475.	0.7	0
143	Coherence: Beyond constraint satisfaction. Behavioral and Brain Sciences, 1989, 12, 475-475.	0.7	1
144	What does explanatory coherence explain?. Behavioral and Brain Sciences, 1989, 12, 475-476.	0.7	8
145	Are explanatory coherence and a connectionist model necessary?. Behavioral and Brain Sciences, 1989, 12, 476-477.	0.7	5
146	Does ECHO explain explanation? A psychological perspective. Behavioral and Brain Sciences, 1989, 12, 478-479.	0.7	0

#	ARTICLE	IF	CITATIONS
147	Explanatory coherence in neural networks?. Behavioral and Brain Sciences, 1989, 12, 479-479.	0.7	1
148	Explanationism, ECHO, and the connectionist paradigm. Behavioral and Brain Sciences, 1989, 12, 480-480.	0.7	1
149	New science for olds. Behavioral and Brain Sciences, 1989, 12, 480-482.	0.7	0
150	Acceptability, analogy, and the acceptability of analogies. Behavioral and Brain Sciences, 1989, 12, 482-483.	0.7	0
151	Optimization and connectionism are two different things. Behavioral and Brain Sciences, 1989, 12, 483-484.	0.7	5
152	Coherence and abduction. Behavioral and Brain Sciences, 1989, 12, 484-484.	0.7	6
153	Probability and normativity. Behavioral and Brain Sciences, 1989, 12, 484-485.	0.7	1
154	Explanatory coherence in understanding persons, interactions, and relationships. Behavioral and Brain Sciences, 1989, 12, 485-486.	0.7	3
155	Measuring the plausibility of explanatory hypotheses. Behavioral and Brain Sciences, 1989, 12, 486-487.	0.7	0
156	ECHO and STAHL: On the theory of combustion. Behavioral and Brain Sciences, 1989, 12, 487-487.	0.7	1
157	Theory autonomy and future promise. Behavioral and Brain Sciences, 1989, 12, 488-488.	0.7	5
158	Psychology, or sociology of science?. Behavioral and Brain Sciences, 1989, 12, 489-489.	0.7	5
159	Texting ECHO on historical data. Behavioral and Brain Sciences, 1989, 12, 489-490.	0.7	1
160	Extending explanatory coherence. Behavioral and Brain Sciences, 1989, 12, 490-502.	0.7	16
161	Primate tool use: But what about their brains?. Behavioral and Brain Sciences, 1989, 12, 595-596.	0.7	4
162	Is Thagard's theory of explanatory coherence the new logical positivism?. Behavioral and Brain Sciences, 1989, 12, 473-474.	0.7	5
163	Inference to the best explanation is basic. Behavioral and Brain Sciences, 1989, 12, 477-478.	0.7	0
164	Explanation and dialogue. Knowledge Engineering Review, 1989, 4, 235-247.	2.6	26

#	ARTICLE	IF	CITATIONS
165	Design reasoning by association. Environment and Planning B: Planning and Design, 1990, 17, 39-56.	1.7	13
166	Intelligent architectures for integration. , 0, , .		2
167	The Structure and Formation of Natural Categories. Psychology of Learning and Motivation - Advances in Research and Theory, 1990, 26, 241-284.	1.1	22
168	Learning hard concepts through constructive induction: framework and rationale. Computational Intelligence, 1990, 6, 247-270.	3.2	79
169	Learning plans for an intelligent observing user behavior. International Journal of Man-Machine Studies, 1990, 33, 489-503.	0.7	11
170	Induction as optimization. IEEE Transactions on Systems, Man, and Cybernetics, 1990, 20, 326-338.	0.9	10
171	Unsupervised credit assignment in knowledge-based sensor fusion systems. IEEE Transactions on Systems, Man, and Cybernetics, 1990, 20, 1153-1171.	0.9	4
172	Case-Based Planning: A Framework for Planning from Experience. Cognitive Science, 1990, 14, 385-443.	1.7	137
173	Learning Plan Schemata from Observation: Explanation-Based Learning for Plan Recognition. Cognitive Science, 1990, 14, 483-509.	1.7	9
174	A Learning method based on partial structures of explanations. Systems and Computers in Japan, 1990, 21, 78-85.	0.2	0
175	Towards automated development of specialized algorithms for design synthesis: Knowledge compilation as an approach to computer-aided design. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 1990, 1, 167-186.	2.1	8
176	Knowledge Level Learning in a Problem Solver. Systems and Computers in Japan, 1990, 21, 64-70.	0.2	0
177	Knowledge acquisition for effective and efficient use of engineering software. Engineering With Computers, 1990, 6, 67-80.	6.1	1
178	Learning in mathematically-based domains: Understanding and generalizing obstacle cancellations. Artificial Intelligence, 1990, 45, 1-45.	5.8	9
179	Concept learning and heuristic classification in weak-theory domains. Artificial Intelligence, 1990, 45, 229-263.	5.8	185
180	Enhancement schemes for constraint processing: Backjumping, learning, and cutset decomposition. Artificial Intelligence, 1990, 41, 273-312.	5.8	311
181	Quantitative results concerning the utility of explanation-based learning. Artificial Intelligence, 1990, 42, 363-391.	5.8	240
182	Self-organization of conceptual generalities and pattern-directed learning. Automatica, 1990, 26, 1009-1023.	5.0	3

#	ARTICLE	IF	CITATIONS
183	Learning in order to avoid search in logic programming. Computers and Mathematics With Applications, 1990, 20, 101-110.	2.7	0
184	Development of a PC-based expert system for the design of offshore topside structures. Engineering Applications of Artificial Intelligence, 1990, 3, 91-100.	8.1	1
185	Explanation-based machine learning in engineering design. Engineering Applications of Artificial Intelligence, 1990, 3, 127-137.	8.1	10
186	Spatial applications of neural networks in computer-aided design. Advanced Engineering Informatics, 1990, 5, 9-22.	0.5	12
187	PROTOS: AN EXEMPLAR-BASED LEARNING APPRENTICE11Based on a paper presented at the Second AAAI Workshop on Knowledge Acquisition for Knowledge-based Systems, Banff, October 1987. Reprinted with permission from Academic Press, Ltd. from Bareiss, et al., International Journal of Man-Machine Studies 29(5) pp. 549â€“561, 1988., 1990, , 112-127.		34
188	EXPLANATIONS, MACHINE LEARNING, AND CREATIVITY. , 1990, , 31-48.		4
189	CONCEPTUAL CLUSTERING AND CATEGORIZATION. , 1990, , 235-268.		11
190	RESEARCH IN MACHINE LEARNING. , 1990, , 3-30.		36
191	Integrated Learning in a Real Domain. , 1990, , 322-329.		7
192	Learning apprentice system for turbine modelling. , 1990, , .		0
193	A knowledge-level analysis of explanation-based learning. , 1990, , .		1
194	Semantic analysis during exploratory learning. , 1990, , .		5
195	Machine Learning, Meta-Reasoning and Logics. Kluwer International Series in Engineering and Computer Science, 1990, , .	0.2	13
196	An application of explanation-based learning to protocol conformance testing. IEEE Intelligent Systems, 1990, 5, 45-47.	1.0	3
197	What is qualitative reasoning, and can we use it for control?. , 1990, , .		5
200	Incremental Version-Space Merging: A General Framework for Concept Learning. Kluwer International Series in Engineering and Computer Science, 1990, , .	0.2	38
201	Philosophy and Machine Learning. Canadian Journal of Philosophy, 1990, 20, 261-276.	0.9	12
202	A machine learning approach to intelligent adaptive control. , 1990, , .		4

#	ARTICLE	IF	CITATIONS
203	Evaluation of diagnosability of failure knowledge in manufacturing systems. , 0, , .		6
204	Application of machine learning to the maintenance of knowledge-based performance. , 1990, , .		0
205	Artificial intelligence and design. , 0, , .		7
206	Automated error recovery in manufacturing systems through learning and reasoning. , 0, , .		3
207	Theory Discovery In Medicine. , 0, , .		0
208	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
209	Indirect relevance and bias in inductive concept-learning. International Journal of Human-Computer Studies, 1990, 2, 365-390.	1.2	14
210	Empirical Learning as a Function of Concept Character. Machine Learning, 1990, 5, 267-298.	5.4	17
211	Acquiring Recursive and Iterative Concepts with Explanation-Based Learning. Machine Learning, 1990, 5, 39-70.	5.4	24
212	Learning logical definitions from relations. Machine Learning, 1990, 5, 239-266.	5.4	1,151
213	Empirical learning as a function of concept character. Machine Learning, 1990, 5, 267-298.	5.4	59
214	The problem of expensive chunks and its solution by restricting expressiveness. Machine Learning, 1990, 5, 299-348.	5.4	52
215	LEW: learning by watching. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1990, 12, 294-308.	13.9	6
217	DT: a classification problem solver with tabular-knowledge acquisition. , 0, , .		4
218	IREF-an interactive theory-driven knowledge refinement tool. , 0, , .		2
219	The nature and significance of knowledge compilation. IEEE Intelligent Systems, 1991, 6, 88-93.	1.0	11
220	Building a banking system specification using machine learning. , 0, , .		1
221	Learning multiple fault diagnosis. , 0, , .		3

#	ARTICLE	IF	CITATIONS
222	Example-guided optimization of recursive domain theories. , 0, , .		1
223	Experience-based deductive learning. , 0, , .		2
224	Effects of Examples and Their Explanations in a Lesson n Recursion: A Production System Analysis. Cognition and Instruction, 1991, 8, 207-259.	2.9	48
225	Detecting and correcting errors in rule-based expert systems: an integration of empirical and explanation-based learning. International Journal of Human-Computer Studies, 1991, 3, 157-173.	1.2	38
226	Choosing among competing generalizations. International Journal of Human-Computer Studies, 1991, 3, 361-380.	1.2	23
227	Title is missing!. Machine Learning, 1991, 6, 197-204.	5.4	0
228	Rigel: An Inductive Learning System. Machine Learning, 1991, 6, 7-35.	5.4	13
229	A Critical Look at Experimental Evaluations of EBL. Machine Learning, 1991, 6, 183-195.	5.4	15
230	The Formation and Use of Abstract Concepts in Design. , 1991, , 323-353.		44
231	Extending explanation-based generalization by abstraction operators. , 1991, , 282-297.		1
234	Heuristic-based learning. Lecture Notes in Computer Science, 1991, , 41-50.	1.3	0
235	Explanation-based generalization and constraint propagation with interval labels. Lecture Notes in Computer Science, 1991, , 312-326.	1.3	0
236	Abstracting background knowledge for concept learning. , 1991, , 1-13.		8
238	Integrating an explanation-based learning mechanism into a general problem-solver. , 1991, , 62-80.		1
239	A review of learning. Knowledge Engineering Review, 1991, 6, 195-222.	2.6	15
240	Deriving Categories to Achieve Goals. Psychology of Learning and Motivation - Advances in Research and Theory, 1991, , 1-64.	1.1	247
241	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
242	Machine learning in engineering automation –The present and the future. Computers in Industry, 1991, 17, 91-100.	9.9	6

#	ARTICLE	IF	CITATIONS
243	Learning how to plan. Robotics and Autonomous Systems, 1991, 8, 93-111.	5.1	12
244	Robo-Soar: An integration of external interaction, planning, and learning using Soar. Robotics and Autonomous Systems, 1991, 8, 113-129.	5.1	28
245	Prior knowledge and autonomous learning. Robotics and Autonomous Systems, 1991, 8, 145-159.	5.1	3
246	Specifying an expert system. Expert Systems With Applications, 1991, 2, 285-303.	7.6	30
247	METAKREK: Knowledge acquisition as modeling. Expert Systems With Applications, 1991, 3, 269-275.	7.6	3
248	Knowledge base refinement by backpropagation. Data and Knowledge Engineering, 1991, 7, 35-46.	3.4	10
249	Rule acquisition events in the discovery of problem-solving strategies. Cognitive Science, 1991, 15, 1-47.	1.7	86
250	A Computational Theory of Learning Causal Relationships. Cognitive Science, 1991, 15, 401-424.	1.7	24
251	Goal-Based Explanation Evaluation. Cognitive Science, 1991, 15, 509-545.	1.7	19
252	Inductive logic programming. New Generation Computing, 1991, 8, 295-318.	3.3	550
253	A model of perceptron learning with a hidden layer for engineering design. Neurocomputing, 1991, 3, 3-14.	5.9	23
254	Genetic algorithms approach to a negotiation support system. IEEE Transactions on Systems, Man, and Cybernetics, 1991, 21, 102-114.	0.9	99
255	A preliminary analysis of the Soar architecture as a basis for general intelligence. Artificial Intelligence, 1991, 47, 289-325.	5.8	171
256	Finding optimal derivation strategies in redundant knowledge bases. Artificial Intelligence, 1991, 50, 95-115.	5.8	21
257	Credit assignment and discovery in classifier systems. International Journal of Intelligent Systems, 1991, 6, 55-69.	5.7	16
258	ESBL: An integrated method for learning from partial information. Annals of Mathematics and Artificial Intelligence, 1991, 4, 323-343.	1.3	0
259	Compiling bottom-up and mixed derivations into top-down executable logic programs. Journal of Automated Reasoning, 1991, 7, 337-358.	1.4	4
260	Induction in database systems: A bibliography. Applied Intelligence, 1991, 1, 263-270.	5.3	3

#	ARTICLE	IF	CITATIONS
261	Understanding and summarization. <i>Artificial Intelligence Review</i> , 1991, 5, 239.	15.7	10
262	Inductive learning by machines. <i>Philosophical Studies</i> , 1991, 64, 37-64.	0.8	5
263	Philosophical and computational models of explanation. <i>Philosophical Studies</i> , 1991, 64, 87-104.	0.8	8
264	Apprenticeship learning of query based problem solving rules. , 0, , .		0
265	Representation and learning of concepts based on scope. , 0, , .		0
266	Intelligent coached apprenticeship systems: Experience from the Sherlock project. , 0, , .		2
267	The importance of implicit and explicit knowledge in a pilot's associate system. , 0, , .		0
268	Learning to Predict and Explain: An Integration of Similarity-Based, Theory-Driven, and Explanation-Based Learning. <i>Journal of the Learning Sciences</i> , 1991, 1, 153-199.	2.9	18
269	Plausible Generalization: Extending a Model of Human Plausible Reasoning. <i>Journal of the Learning Sciences</i> , 1991, 1, 319-359.	2.9	10
270	Learning error-recovery strategies in telerobotic systems. , 0, , .		4
271	A Learning-based Software Engineering Environment. , 0, , .		4
272	Qualitative Perception Modeling and Intelligent Musical Learning. <i>Computer Music Journal</i> , 1992, 16, 51.	0.1	13
273	An explanation-based-learning approach to knowledge compilation: a Pilot's Associate application. <i>IEEE Intelligent Systems</i> , 1992, 7, 44-51.	1.0	3
274	Process programming by hindsight. , 1992, , .		8
275	The Present and Future of Intelligent Tutoring Systems. , 1992, , 97-106.		0
276	Process programming by hindsight. , 1992, , .		8
277	Learning Behavioral Knowledge In Robotic Domains. , 0, , .		0
278	Qualitative reinforcement learning control. , 0, , .		2

#	ARTICLE	IF	CITATIONS
279	Explanation-based learning for the automated reuse of programs. , 0, , .		6
280	Recent views of conceptual structure.. Psychological Bulletin, 1992, 112, 500-526.	6.1	360
281	Explaining basic categories: Feature predictability and information.. Psychological Bulletin, 1992, 111, 291-303.	6.1	166
282	Adaptive and Evolutionary Robotics - A New Architecture for Learning-Based Autonomous Space Robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1992, 25, 313-318.	0.4	1
283	<title>Machine learning aid for knowledge engineering: learning new plans for Pilot's Associate</title>. , 1992, , .		0
284	Innovative design Systems, where are we and where do we go from here? Part I: Design by association. Knowledge Engineering Review, 1992, 7, 183-213.	2.6	8
285	The DIME System: A Preliminary Report. Intelligent Systems in Accounting, Finance and Management, 1992, 1, 29-39.	4.6	2
286	Knowledge acquisition by generating skeletal plans from real world cases. , 1992, , 125-133.		8
287	<title>Adaptive explanation-based learning: a preliminary analysis of the utility of EBL</title>. , 1992, 1706, 68.		0
288	Software automation: from 'silly' to 'intelligent'. , 0, , .		0
289	A primitives-based approach to knowledge acquisition. , 0, , .		1
290	Artificial bootstrap. , 0, , .		1
291	LEDA-a learning apprentice system that acquires design plans for high-level synthesis of integrated circuits. , 0, , .		1
292	Learning approximate diagnosis. , 0, , .		2
293	Interactive concept-learning and constructive induction by analogy. Machine Learning, 1992, 8, 107-150.	5.4	27
294	Abductive explanation-based learning: A solution to the multiple inconsistent explanation problem. Machine Learning, 1992, 8, 167-219.	5.4	18
295	Higher-order and modal logic as a framework for explanation-based generalization. Machine Learning, 1992, 9, 23-55.	5.4	6
296	A framework for average case analysis of conjunctive learning algorithms. Machine Learning, 1992, 9, 349-372.	5.4	17

#	ARTICLE	IF	CITATIONS
297	A Framework for Average Case Analysis of Conjunctive Learning Algorithms. Machine Learning, 1992, 9, 349-372.	5.4	18
298	Interactive Concept-Learning and Constructive Induction by Analogy. Machine Learning, 1992, 8, 107-150.	5.4	40
299	Higher-Order and Modal Logic as a Framework for Explanation-Based Generalization. Machine Learning, 1992, 9, 23-55.	5.4	7
300	The Utility of Knowledge in Inductive Learning. Machine Learning, 1992, 9, 57-94.	5.4	154
302	Efficient implementation of non-standard connectives and quantifiers in deductive reasoning systems. , 1992, , .		5
303	Tailoring advanced instructional software for AI. , 1992, , 604-613.		2
304	The Model-Based Construction of a Case-Oriented Expert System. AI Communications, 1992, 5, 3-18.	1.2	8
305	Knowledge acquisition from an incomplete domain theory ? An application on the Stock Market. Computer Science in Economics and Management, 1992, 5, 1-21.	0.5	4
306	A connectionist approach to rule refinement. Applied Intelligence, 1992, 2, 93-103.	5.3	4
307	Explanation-Based Learning: A survey. Artificial Intelligence Review, 1992, 6, 243-262.	15.7	2
308	Learning mutually dependent relations. Journal of Intelligent Information Systems, 1992, 1, 159-176.	3.9	3
309	Explanation-based learning as justification of knowledge. Expert Systems, 1992, 9, 139-148.	4.5	1
310	Model-Based Learning for Diagnostic Tasks. CIRP Annals - Manufacturing Technology, 1992, 41, 557-560.	3.6	4
311	Detection of semantically incorrect rules in knowledge-based systems. Knowledge-Based Systems, 1992, 5, 117-124.	7.1	1
312	Constraint logic programming: Applications and implications. Advanced Engineering Informatics, 1992, 7, 175-182.	0.5	2
313	XLARê” Cognitive architecture for intelligent action. Expert Systems With Applications, 1992, 4, 129-140.	7.6	1
314	On the need for integrated approaches to image understanding. European Transactions on Telecommunications, 1992, 3, 465-478.	1.2	3
315	Purposive discovery of operators. Annals of Mathematics and Artificial Intelligence, 1992, 6, 317-343.	1.3	0

#	ARTICLE	IF	CITATIONS
316	An approach to the compilation of operational knowledge from casual models. IEEE Transactions on Systems, Man, and Cybernetics, 1992, 22, 772-789.	0.9	14
317	Automating knowledge acquisition as extending, updating, and improving a knowledge base. IEEE Transactions on Systems, Man, and Cybernetics, 1992, 22, 1444-1460.	0.9	25
318	On automating goal-to-task translation in a futuristic robotic factory. ISA Transactions, 1992, 31, 135-150.	5.7	3
319	Some approaches to handle noise in concept learning. International Journal of Man-Machine Studies, 1992, 36, 167-181.	0.7	2
320	Use of causal models and abduction in learning diagnostic knowledge. International Journal of Man-Machine Studies, 1992, 36, 289-307.	0.7	6
321	Explanation and artificial neural networks. International Journal of Man-Machine Studies, 1992, 37, 335-355.	0.7	41
322	Learning to improve constraint-based scheduling. Artificial Intelligence, 1992, 58, 271-296.	5.8	19
323	Automatic programming of behavior-based robots using reinforcement learning. Artificial Intelligence, 1992, 55, 311-365.	5.8	350
324	The roles of associational and causal reasoning in problem solving. Artificial Intelligence, 1992, 53, 159-207.	5.8	32
325	A structural theory of explanation-based learning. Artificial Intelligence, 1993, 60, 93-139.	5.8	35
326	An apprentice-based approach to knowledge acquisition. Artificial Intelligence, 1993, 64, 1-52.	5.8	15
327	Acquiring search-control knowledge via static analysis. Artificial Intelligence, 1993, 62, 255-301.	5.8	51
328	A symbolic solution to intelligent real-time control. Robotics and Autonomous Systems, 1993, 11, 279-291.	5.1	13
329	Machine learning in artificial intelligence. Advanced Engineering Informatics, 1993, 8, 159-164.	0.5	9
330	Machine Learning and the foundations of inductive inference. Minds and Machines, 1993, 3, 31-51.	4.8	4
331	Knowledge-based connectionism for revising domain theories. IEEE Transactions on Systems, Man, and Cybernetics, 1993, 23, 173-182.	0.9	128
332	Explanation-based learning for intelligent process planning. IEEE Transactions on Systems, Man, and Cybernetics, 1993, 23, 1597-1616.	0.9	13
333	Learners: the target for courseware*. Journal of Computer Assisted Learning, 1993, 9, 268-271.	5.1	0

#	ARTICLE	IF	CITATIONS
334	Automatic knowledge base refinement: Learning from examples and deep knowledge in rheumatology. <i>Artificial Intelligence in Medicine</i> , 1993, 5, 225-243.	6.5	15
335	Integration of simulation modeling and inductive learning in an adaptive decision support system. <i>Decision Support Systems</i> , 1993, 9, 127-142.	5.9	34
336	Supporting complex real-time decision making through machine learning. <i>Decision Support Systems</i> , 1993, 10, 213-233.	5.9	28
337	Multistrategy learning and theory revision. <i>Machine Learning</i> , 1993, 11, 153-172.	5.4	20
338	Learning causal patterns: Making a transition from data-driven to theory-driven learning. <i>Machine Learning</i> , 1993, 11, 173-194.	5.4	8
339	Plausible justification trees: A framework for deep and dynamic integration of learning strategies. <i>Machine Learning</i> , 1993, 11, 237-261.	5.4	10
340	Cost-sensitive learning of classification knowledge and its applications in robotics. <i>Machine Learning</i> , 1993, 13, 7-33.	5.4	97
341	Explanation-based learning for diagnosis. <i>Machine Learning</i> , 1993, 13, 35-70.	5.4	3
342	Information filtering: Selection mechanisms in learning systems. <i>Machine Learning</i> , 1993, 10, 113-151.	5.4	40
343	A machine learning based approach to manufacturing process planning. , 0, , .		1
344	On applying machine learning to develop air combat simulation agents. , 0, , .		13
345	Multistrategy Learning and Theory Revision. <i>Machine Learning</i> , 1993, 11, 153-172.	5.4	11
346	Plausible Justification Trees: A Framework for Deep and Dynamic Integration of Learning Strategies. <i>Machine Learning</i> , 1993, 11, 237-261.	5.4	3
347	Information Filtering: Selection Mechanisms in Learning Systems. <i>Machine Learning</i> , 1993, 10, 113-151.	5.4	36
348	Induction Over the Unexplained: Using Overly-General Domain Theories to Aid Concept Learning. <i>Machine Learning</i> , 1993, 10, 79-110.	5.4	17
349	Explanation-Based Learning for Diagnosis. <i>Machine Learning</i> , 1993, 13, 35-70.	5.4	3
350	Inferential Theory of Learning as a Conceptual Basis for Multistrategy Learning. <i>Machine Learning</i> , 1993, 11, 111-151.	5.4	25
351	Learning Causal Patterns: Making a Transition from Data-Driven to Theory-Driven Learning. <i>Machine Learning</i> , 1993, 11, 173-194.	5.4	1

#	ARTICLE	IF	CITATIONS
352	Cost-Sensitive Learning of Classification Knowledge and Its Applications in Robotics. Machine Learning, 1993, 13, 7-33.	5.4	72
353	Derivational Analogy in PRODIGY: Automating Case Acquisition, Storage, and Utilization. Machine Learning, 1993, 10, 249-278.	5.4	119
354	Integrating Feature Extraction and Memory Search. Machine Learning, 1993, 10, 311-339.	5.4	14
355	Categorization, Concept Learning, and Problem-Solving: A Unifying View. Psychology of Learning and Motivation - Advances in Research and Theory, 1993, , 219-255.	1.1	5
356	Abstract-driven pattern discovery in databases. IEEE Transactions on Knowledge and Data Engineering, 1993, 5, 926-938.	5.7	78
357	ENIGMA: a system that learns diagnostic knowledge. IEEE Transactions on Knowledge and Data Engineering, 1993, 5, 15-28.	5.7	18
358	Practicing AI with the portable AI lab. , 1993, , .		0
359	Automated dictionary construction for information extraction from text. , 0, , .		24
361	Robot Learning. , 1993, , .		96
363	Foundations of Knowledge Acquisition. , 1993, , .		4
364	An automatic knowledge acquisition method for switching sequences and its evaluation. , 1993, , .		0
365	Integrating Theory and Data in Category Learning. Psychology of Learning and Motivation - Advances in Research and Theory, 1993, , 189-218.	1.1	6
366	Processing Biases, Knowledge, and Context in Category Formation. Psychology of Learning and Motivation - Advances in Research and Theory, 1993, , 257-282.	1.1	8
367	Chapter 10 Learning Program Abstractions: Model and Empirical Validation. Advances in Psychology, 1993, 101, 203-231.	0.1	2
368	Chapter 12 When Can Individual Student Models Be Useful?. Advances in Psychology, 1993, 101, 263-284.	0.1	3
369	Special Section: Research in Integrating Learning Capabilities into Information Systems. Journal of Management Information Systems, 1993, 9, 5-15.	4.3	10
370	Automatic Knowledge Acquisition System for Blast Furnace Burden Distribution Operation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1993, 26, 179-184.	0.4	0
371	Goal-driven similarity assessment. , 1993, , 283-298.		7

#	ARTICLE	IF	CITATIONS
372	Exploring Information about Concepts by asking Questions. Psychology of Learning and Motivation - Advances in Research and Theory, 1993, , 411-436.	1.1	23
373	Validation of rule-based reactive systems by sound scenario generalization. , 0, , .		3
374	DKAS: A Distributed Knowledge Acquisition System in a DSS. Journal of Management Information Systems, 1993, 9, 59-82.	4.3	18
375	Integration of Machine Learning and Sensor-Based Control in Intelligent Robotic Systems. , 1993, , .		1
376	Reducing Misclassification Costs. , 1994, , 217-225.		187
377	A software engineering paradigm for program synthesis. Software Engineering Journal, 1994, 9, 213.	0.7	2
378	Towards a Technology and a Science of Machine Learning. AI Communications, 1994, 7, 29-38.	1.2	8
379	A lifelong learning perspective for mobile robot control. , 0, , .		33
380	Automatic knowledge acquisition system for blast furnace burden distribution operation. , 0, , .		5
381	Effect of Structural Embedding on Analogical Transfer: Manifest versus Latent Analogs. American Journal of Psychology, 1994, 107, 1.	0.3	58
382	Learning Strategies and Transfer in the Domain of Programming. Cognition and Instruction, 1994, 12, 235-275.	2.9	205
383	An intelligent control shell for CAD tools. , 0, , .		0
384	EXPLANATION-BASED NATURAL LANGUAGE ACQUISITION USING UNIVERSAL LINGUISTIC PRINCIPLES AS INNATE DOMAIN THEORY. Applied Artificial Intelligence, 1994, 8, 459-481.	3.2	0
385	Discovery of physical principles from design experiences. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 1994, 8, 113-123.	1.1	22
386	PRODILOGY/ANALOGY: Analogical reasoning in general problem solving. Lecture Notes in Computer Science, 1994, , 33-50.	1.3	11
387	A model theory of induction. International Studies in the Philosophy of Science, 1994, 8, 5-29.	0.2	18
388	Graph-based induction as a unified learning framework. Applied Intelligence, 1994, 4, 297-316.	5.3	64
389	A unified framework for explanation-based generalization of partially ordered and partially instantiated plans. Artificial Intelligence, 1994, 67, 29-70.	5.8	24

#	ARTICLE	IF	CITATIONS
390	Theory refinement combining analytical and empirical methods. Artificial Intelligence, 1994, 66, 273-309.	5.8	112
391	Learning to plan in continuous domains. Artificial Intelligence, 1994, 65, 71-141.	5.8	21
392	Analysis and empirical studies of derivational analogy. Artificial Intelligence, 1994, 67, 287-327.	5.8	6
393	A high-performance explanation-based learning algorithm. Artificial Intelligence, 1994, 69, 1-50.	5.8	13
394	Investigating production system representations for non-combinatorial match. Artificial Intelligence, 1994, 68, 155-199.	5.8	16
395	Knowledge-based artificial neural networks. Artificial Intelligence, 1994, 70, 119-165.	5.8	585
396	Speedup of hypothetical reasoning by experience-based learning mechanism. Knowledge-Based Systems, 1994, 7, 189-198.	7.1	1
397	On the Interaction of Theory and Data in Concept Learning. Cognitive Science, 1994, 18, 221-281.	1.7	129
398	Explaining Emotions. Cognitive Science, 1994, 18, 283-323.	1.7	53
399	EXPLOITING CAUSAL STRUCTURE TO CONTROL RETRIEVAL AND REFITTING DURING PLAN REUSE. Computational Intelligence, 1994, 10, 212-244.	3.2	7
400	ABDUCTION and EXPLANATION-BASED LEARNING: CASE STUDIES IN DIVERSE DOMAINS. Computational Intelligence, 1994, 10, 295-330.	3.2	11
401	Generalizing Version Spaces. Machine Learning, 1994, 17, 5-46.	5.4	34
402	On-Line Learning from Search Failures. Machine Learning, 1994, 15, 69-117.	5.4	3
403	Quantifying prior determination knowledge using the PAC learning model. Machine Learning, 1994, 17, 69-105.	5.4	8
404	Identification of parameter couplings in turbine design using neural networks. , 1994, , .		2
405	Swinging up the Acrobot: an example of intelligent control. , 0, , .		18
406	Generalizing version spaces. Machine Learning, 1994, 17, 5-46.	5.4	71
407	On-line learning from search failures. Machine Learning, 1994, 15, 69-117.	5.4	11

#	ARTICLE	IF	CITATIONS
408	Grammatically biased learning: Learning logic programs using an explicit antecedent description language. <i>Artificial Intelligence</i> , 1994, 68, 303-366.	5.8	62
409	An automatic knowledge acquisition method for switching sequences and it's evaluation. <i>IEEE Transactions on Power Systems</i> , 1994, 9, 884-890.	6.5	9
410	Knowledge reorganization. A rule model scheme for efficient reasoning. , 0, , .		1
411	Developing a multi-agent model for distributed knowledge systems. , 0, , .		0
412	Integrating ILP and EBL. <i>ACM SIGART Bulletin</i> , 1994, 5, 12-21.	0.5	5
413	SOME METHODOLOGICAL ASPECTS OF MACHINE LEARNING. <i>Cybernetics and Systems</i> , 1994, 25, 233-258.	2.5	0
414	Prior knowledge and functionally relevant features in concept learning.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1995, 21, 449-468.	0.9	143
415	Behavioural cloning in control of a dynamic system. , 0, , .		13
416	Intelligence in Numerical Computing: Improving Batch Scheduling Algorithms through Explanation-Based Learning. <i>Advances in Chemical Engineering</i> , 1995, 22, 549-610.	0.9	1
417	Modeling the Rational Basis of Musical Expression. <i>Computer Music Journal</i> , 1995, 19, 76.	0.1	15
418	CLIP: concept learning from inference patterns. <i>Artificial Intelligence</i> , 1995, 75, 63-92.	5.8	67
419	On the comparison of AI and DAI based planning techniques for automated manufacturing systems. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 1995, 13, 201-245.	3.4	9
420	A formal model of explanation. <i>Formal Aspects of Computing</i> , 1995, 7, 207-225.	1.8	0
421	Learning, goals, and learning goals: A perspective on goal-driven learning. <i>Artificial Intelligence Review</i> , 1995, 9, 387-422.	15.7	20
422	Explanation-based learning: A knowledge level analysis. <i>Artificial Intelligence Review</i> , 1995, 9, 19-35.	15.7	1
423	Systematic incremental validation of reactive systems via sound scenario generalization. <i>Automated Software Engineering</i> , 1995, 2, 131-166.	2.9	14
424	Explanation-based interpretation of open-textured concepts in logical models of legislation. <i>Artificial Intelligence and Law</i> , 1995, 3, 191-208.	4.0	8
425	Formal reasoning in intelligent database systems. <i>Applied Intelligence</i> , 1995, 5, 297-317.	5.3	1

#	ARTICLE	IF	CITATIONS
426	Lifelong robot learning. <i>Robotics and Autonomous Systems</i> , 1995, 15, 25-46.	5.1	279
427	An approach to learning mobile robot navigation. <i>Robotics and Autonomous Systems</i> , 1995, 15, 301-319.	5.1	50
428	Integration of multiple knowledge representation for classification problems. <i>Advanced Engineering Informatics</i> , 1995, 9, 243-251.	0.5	5
429	Refinement of uncertain rule bases via reduction. <i>International Journal of Approximate Reasoning</i> , 1995, 13, 95-126.	3.3	5
430	Building a chemical process design system within soarâ€”1. Design issues. <i>Computers and Chemical Engineering</i> , 1995, 19, 75-89.	3.8	4
431	Distributed intelligent executive information systems. <i>Decision Support Systems</i> , 1995, 14, 117-130.	5.9	37
432	Applying machine learning to agricultural data. <i>Computers and Electronics in Agriculture</i> , 1995, 12, 275-293.	7.7	116
433	Induction of logic programs: FOIL and related systems. <i>New Generation Computing</i> , 1995, 13, 287-312.	3.3	133
434	A Lifelong Learning Perspective for Mobile Robot Control. , 1995, , 201-214.		30
435	A comparison of model-based reasoning and learning approaches to power transmission fault diagnosis. , 0, , .		2
436	Abduction, experience, and goals: a model of everyday abductive explanation. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 1995, 7, 407-428.	2.8	25
437	Logic Program Synthesis from Incomplete Information. <i>Kluwer International Series in Engineering and Computer Science</i> , 1995, , .	0.2	22
438	Search-Intensive Concept Induction. <i>Evolutionary Computation</i> , 1995, 3, 375-416.	3.0	144
439	Using Single Function Agents to investigate conflict. <i>Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM</i> , 1995, 9, 299-312.	1.1	17
440	On the Interaction of Prior Knowledge and Stimulus Structure in Category Learning. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , 1995, 48, 208-236.	2.3	18
441	Inductive Policy: The Pragmatics of Bias Selection. <i>Machine Learning</i> , 1995, 20, 35-61.	5.4	2
442	Shifting Vocabulary Bias in Speedup Learning. <i>Machine Learning</i> , 1995, 20, 155-191.	5.4	0
443	Using feedback to improve VLSI designs. , 0, , .		0

#	ARTICLE	IF	CITATIONS
444	Machine learning and planning for data management in forestry. IEEE Intelligent Systems, 1995, 10, 35-41.	1.0	5
445	Inductive policy: The pragmatics of bias selection. Machine Learning, 1995, 20, 35-61.	5.4	64
446	Shifting vocabulary bias in speedup learning. Machine Learning, 1995, 20, 155-191.	5.4	2
447	Learning to Troubleshoot: Multistrategy Learning of Diagnostic Knowledge for a Real-World Problem-Solving Task. Cognitive Science, 1995, 19, 289-340.	1.7	5
448	On Learning Visual Concepts and DNF Formulae. Machine Learning, 1996, 24, 65-85.	5.4	2
449	Real-World Robotics: Learning to Plan for Robust Execution. Machine Learning, 1996, 23, 121-161.	5.4	0
450	Learning in the presence of concept drift and hidden contexts. Machine Learning, 1996, 23, 69-101.	5.4	1,364
451	Real-world robotics: Learning to plan for robust execution. Machine Learning, 1996, 23, 121-161.	5.4	8
452	On learning visual concepts and DNF formulae. Machine Learning, 1996, 24, 65-85.	5.4	5
453	Learning to select useful landmarks. IEEE Transactions on Systems, Man, and Cybernetics, 1996, 26, 437-449.	5.0	36
454	Survey of expert opinion: Which machine learning method may be used for which task?. International Journal of Human-Computer Interaction, 1996, 8, 221-236.	4.8	8
455	Representation change in machine learning. AI Communications, 1996, 9, 14-20.	1.2	0
456	On the role of abstraction in case-based reasoning. Lecture Notes in Computer Science, 1996, , 28-43.	1.3	59
457	Language-driven concept learning: Deciphering Jabberwocky.. Journal of Experimental Psychology: Learning Memory and Cognition, 1996, 22, 539-555.	0.9	15
458	Machine Learning in Computer Chess: The Next Generation. ICGA Journal, 1996, 19, 147-161.	0.3	21
459	The Impact of Goal Specificity on Strategy Use and the Acquisition of Problem Structure. Cognitive Science, 1996, 20, 75-100.	1.7	132
460	Episodic Learner Modeling. Cognitive Science, 1996, 20, 195-236.	1.7	31
461	Accounting for Graded Performance within a Discrete Search Framework. Cognitive Science, 1996, 20, 499-537.	1.7	11

#	ARTICLE	IF	CITATIONS
462	Towards efficient partial evaluation in logic programming. <i>New Generation Computing</i> , 1996, 14, 237-259.	3.3	2
463	Probably approximately optimal satisficing strategies. <i>Artificial Intelligence</i> , 1996, 82, 21-44.	5.8	7
464	An empirical study of automated dictionary construction for information extraction in three domains. <i>Artificial Intelligence</i> , 1996, 85, 101-134.	5.8	79
465	Knowledge acquisition method for conceptual design based on value engineering and axiomatic design theory. <i>Advanced Engineering Informatics</i> , 1996, 10, 187-202.	0.5	15
466	A computational model for distributed knowledge systems with learning mechanisms. <i>Expert Systems With Applications</i> , 1996, 10, 417-427.	7.6	12
467	A new method for explanation-based learning. <i>Expert Systems With Applications</i> , 1996, 10, 435-439.	7.6	1
468	A statistical approach to adaptive problem solving. <i>Artificial Intelligence</i> , 1996, 88, 101-142.	5.8	8
469	Model-based design indexing and index learning in engineering design. <i>Engineering Applications of Artificial Intelligence</i> , 1996, 9, 601-609.	8.1	12
470	Automatically configuring constraint satisfaction programs: A case study. <i>Constraints</i> , 1996, 1, 7-43.	0.7	109
471	Failure driven dynamic search control for partial order planners: an explanation based approach. <i>Artificial Intelligence</i> , 1996, 88, 253-315.	5.8	20
472	LEARNING PLAYING STRATEGIES IN CHESS. <i>Computational Intelligence</i> , 1996, 12, 65-87.	3.2	7
473	Design and development of a medical decision Support System. <i>Journal of Decision Systems</i> , 1996, 5, 219-248.	3.2	0
474	Automated user modeling for intelligent interface. <i>International Journal of Human-Computer Interaction</i> , 1996, 8, 237-258.	4.8	10
475	Different ways to support intelligent assistant systems by use of machine learning methods. <i>International Journal of Human-Computer Interaction</i> , 1996, 8, 287-308.	4.8	2
477	Explanation-Based Neural Network Learning. <i>Kluwer International Series in Engineering and Computer Science</i> , 1996, , .	0.2	77
479	Identification of parameter coupling in turbine design using neural networks. <i>Journal of Propulsion and Power</i> , 1996, 12, 503-508.	2.2	7
480	A case learning tool for operations of power systems. , 0, , .		1
481	Using compiled knowledge to guide and focus abductive diagnosis. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 1996, 8, 690-706.	5.7	29

#	ARTICLE	IF	CITATIONS
482	Evolutionary Program Induction Directed by Logic Grammars. <i>Evolutionary Computation</i> , 1997, 5, 143-180.	3.0	35
483	SHAPES: A novel approach for learning search heuristics in under-constrained optimization problems. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 1997, 9, 731-746.	5.7	3
484	Situation reactive handiwork support through behavior understanding. , 0, , .		7
485	Knowledge conceptualization tool. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 1997, 9, 209-220.	5.7	13
486	Active Learning: Approaches and Issues. <i>Journal of Intelligent Systems</i> , 1997, 7, .	1.6	1
487	Kognitive Lernermodellierung. <i>Kognitionswissenschaft</i> , 1997, 6, 165-176.	0.4	0
488	Hybrid language processing in the Spoken Language Translator. , 0, , .		7
489	Hybrid multilayer perceptron/EBL approach for concept generalization. , 0, , .		0
490	The truth is in there: current issues in extracting rules from trained feedforward artificial neural networks. , 0, , .		7
491	Learning Generic Mechanisms for Innovative Strategies in Adaptive Design. <i>Journal of the Learning Sciences</i> , 1997, 6, 367-396.	2.9	41
492	Approximate reasoning. <i>Lecture Notes in Computer Science</i> , 1997, , 229-240.	1.3	1
493	Verification of non-monotonic knowledge bases. <i>Decision Support Systems</i> , 1997, 21, 253-261.	5.9	7
494	Lazy Incremental Learning of Control Knowledge for Efficiently Obtaining Quality Plans. <i>Artificial Intelligence Review</i> , 1997, 11, 371-405.	15.7	29
495	Title is missing!. <i>Artificial Intelligence Review</i> , 1997, 11, 273-314.	15.7	506
496	Explanation-Based Learning and Reinforcement Learning: A Unified View. <i>Machine Learning</i> , 1997, 28, 169-210.	5.4	43
497	Integrating Multiple Learning Strategies in First Order Logics. <i>Machine Learning</i> , 1997, 27, 209-240.	5.4	17
498	PAL: A Pattern-Based First-Order Inductive System. <i>Machine Learning</i> , 1997, 26, 227-252.	5.4	12
499	Kognitive Lernermodellierung. <i>Kognitionswissenschaft</i> , 1997, 6, 165-176.	0.4	2

#	ARTICLE	IF	CITATIONS
500	Permissive planning: extending classical planning to uncertain task domains. <i>Artificial Intelligence</i> , 1997, 89, 173-217.	5.8	2
501	Engineering and compiling planning domain models to promote validity and efficiency. <i>Artificial Intelligence</i> , 1997, 95, 1-65.	5.8	29
502	Adaptation-guided retrieval: questioning the similarity assumption in reasoning. <i>Artificial Intelligence</i> , 1998, 102, 249-293.	5.8	147
503	On the relations between intelligent backtracking and failure-driven explanation-based learning in constraint satisfaction and planning. <i>Artificial Intelligence</i> , 1998, 105, 161-208.	5.8	16
504	Learning to Improve Coordinated Actions in Cooperative Distributed Problem-Solving Environments. <i>Machine Learning</i> , 1998, 33, 129-153.	5.4	37
505	Adaptation of declaratively represented methods in proof planning. <i>Annals of Mathematics and Artificial Intelligence</i> , 1998, 23, 299-320.	1.3	1
506	On the design of an intelligent exploratory environment for geographic climates on WWW. <i>Computer Networks</i> , 1998, 30, 699-700.	1.0	2
507	Studies of micro-genetic learning brought about by the comparison and solving of isomorphic arithmetic problems. <i>Learning and Instruction</i> , 1998, 8, 253-269.	3.2	0
508	A unified model for abduction-based reasoning. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 1998, 28, 408-425.	2.9	16
509	APL-generated teaching and testing items to enhance a student's ability to discover functional relationships. <i>APL Quote Quad</i> , 1998, 29, 98-104.	0.1	0
510	STRATEGY LEARNING: A SURVEY OF PROBLEMS, METHODS, AND ARCHITECTURES. <i>International Journal on Artificial Intelligence Tools</i> , 1998, 07, 487-550.	1.0	1
511	AN IMPROVEMENT TO TOP-DOWN CLAUSE SPECIALIZATION. <i>International Journal on Artificial Intelligence Tools</i> , 1998, 07, 71-102.	1.0	0
512	Explanation-based generalization in game playing: Quantitative results. <i>Lecture Notes in Computer Science</i> , 1998, , 256-267.	1.3	0
513	Dimensions of machine learning in design. <i>Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM</i> , 1998, 12, 117-121.	1.1	13
514	Learning in design: From characterizing dimensions to working systems. <i>Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM</i> , 1998, 12, 161-172.	1.1	8
515	Simulating children learning and explaining elementary heat transfer phenomena: A multistrategy system at work. <i>Lecture Notes in Computer Science</i> , 1998, , 67-76.	1.3	1
517	Perception as purposeful inquiry: We elect where to direct each glance, and determine what is encoded within and between glances. <i>Behavioral and Brain Sciences</i> , 1999, 22, 619-620.	0.7	7
518	Reinventing a broken wheel. <i>Behavioral and Brain Sciences</i> , 1999, 22, 623-624.	0.7	2

#	ARTICLE	IF	CITATIONS
519	Perceiving abstract concepts. Behavioral and Brain Sciences, 1999, 22, 635-636.	0.7	0
520	On the virtues of going all the way. Behavioral and Brain Sciences, 1999, 22, 614-614.	0.7	2
521	Grounded in perceptions yet transformed into amodal symbols. Behavioral and Brain Sciences, 1999, 22, 617-617.	0.7	63
522	Whither structured representation?. Behavioral and Brain Sciences, 1999, 22, 626-627.	0.7	0
523	Selecting is not abstracting. Behavioral and Brain Sciences, 1999, 22, 630-631.	0.7	6
524	A view from cognitive linguistics. Behavioral and Brain Sciences, 1999, 22, 625-625.	0.7	45
525	Creativity of metaphor in perceptual symbol systems. Behavioral and Brain Sciences, 1999, 22, 621-622.	0.7	11
526	Creativity, simulation, and conceptualization. Behavioral and Brain Sciences, 1999, 22, 615-615.	0.7	5
527	Individuals are abstractions. Behavioral and Brain Sciences, 1999, 22, 620-621.	0.7	0
528	Perceptual symbols in language comprehension. Behavioral and Brain Sciences, 1999, 22, 618-619.	0.7	0
529	Perceptual symbol systems and emotion. Behavioral and Brain Sciences, 1999, 22, 612-613.	0.7	13
530	Embodied metaphor in perceptual symbols. Behavioral and Brain Sciences, 1999, 22, 617-618.	0.7	25
531	Can metacognition be explained in terms of perceptual symbol systems?. Behavioral and Brain Sciences, 1999, 22, 629-630.	0.7	1
532	Modality and abstract concepts. Behavioral and Brain Sciences, 1999, 22, 610-610.	0.7	7
533	Perceptions of perceptual symbols. Behavioral and Brain Sciences, 1999, 22, 637-660.	0.7	424
534	Perceptual symbol systems. Behavioral and Brain Sciences, 1999, 22, 577-660.	0.7	5,024
535	The uncanny power of words. Behavioral and Brain Sciences, 1999, 22, 622-623.	0.7	1
536	Truth and intra-personal concept stability. Behavioral and Brain Sciences, 1999, 22, 632-633.	0.7	1

#	ARTICLE	IF	CITATIONS
537	External symbols are a better bet than perceptual symbols. Behavioral and Brain Sciences, 1999, 22, 634-635.	0.7	0
538	Perceptual symbols: The power and limitations of a theory of dynamic imagery and structured frames. Behavioral and Brain Sciences, 1999, 22, 611-612.	0.7	3
539	Sort-of symbols?. Behavioral and Brain Sciences, 1999, 22, 613-613.	0.7	20
540	Perceptual symbols in language comprehension: Can an empirical case be made?. Behavioral and Brain Sciences, 1999, 22, 636-637.	0.7	8
541	Simulations, simulators, amodality, and abstract terms. Behavioral and Brain Sciences, 1999, 22, 628-629.	0.7	3
542	Spatial symbol systems and spatial cognition: A computer science perspective on perception-based symbol processing. Behavioral and Brain Sciences, 1999, 22, 616-617.	0.7	51
543	A perceptual theory of knowledge: Specifying some details. Behavioral and Brain Sciences, 1999, 22, 633-634.	0.7	1
544	Can handicapped subjects use perceptual symbol systems?. Behavioral and Brain Sciences, 1999, 22, 625-626.	0.7	4
545	Latent Semantic Analysis (LSA), a disembodied learning machine, acquires human word meaning vicariously from language alone. Behavioral and Brain Sciences, 1999, 22, 624-625.	0.7	8
546	A little mechanism can go a long way. Behavioral and Brain Sciences, 1999, 22, 631-632.	0.7	2
547	What makes perceptual symbols perceptual?. Behavioral and Brain Sciences, 1999, 22, 610-611.	0.7	103
548	Development, consciousness, and the perception/mental representation distinction. Behavioral and Brain Sciences, 1999, 22, 627-628.	0.7	0
549	Introspection and the secret agent. Behavioral and Brain Sciences, 1999, 22, 629-629.	0.7	0
551	Generalization and generalizability measures. IEEE Transactions on Knowledge and Data Engineering, 1999, 11, 175-186.	5.7	8
552	An interactive tool for knowledge base refinement. Expert Systems, 1999, 16, 2-10.	4.5	3
553	Experimentation-Driven Knowledge Acquisition for Planning. Computational Intelligence, 1999, 15, 252-279.	3.2	2
554	Introspective multistrategy learning: On the construction of learning strategies. Artificial Intelligence, 1999, 112, 1-55.	5.8	58
555	Learning action strategies for planning domains. Artificial Intelligence, 1999, 113, 125-148.	5.8	50

#	ARTICLE	IF	CITATIONS
556	Learning to Take Actions. Machine Learning, 1999, 35, 57-90.	5.4	29
557	Failure recovery planning in assembly based on acquired experience: learning by analogy. , 0, , .		7
558	Knowledge maintenance: the state of the art. Knowledge Engineering Review, 1999, 14, 1-46.	2.6	57
559	Discovering knowledge from noisy databases using genetic programming. Journal of the Association for Information Science and Technology, 2000, 51, 870-881.	1.0	6
560	Proving theorems by reuse. Artificial Intelligence, 2000, 116, 17-66.	5.8	12
561	Bounding the cost of learned rules. Artificial Intelligence, 2000, 120, 43-80.	5.8	1
562	Multi Level Knowledge in Modeling Qualitative Physics Learning. Machine Learning, 2000, 38, 181-211.	5.4	2
563	Refining Numerical Constants in First Order Logic Theories. Machine Learning, 2000, 38, 109-131.	5.4	11
564	Multistrategy Discovery and Detection of Novice Programmer Errors. Machine Learning, 2000, 38, 157-180.	5.4	27
565	Towards Flexible Teamwork in Persistent Teams: Extended Report. Autonomous Agents and Multi-Agent Systems, 2000, 3, 159-183.	2.1	29
566	Exploiting focal points among alternative solutions: Two approaches. Annals of Mathematics and Artificial Intelligence, 2000, 28, 187-258.	1.3	7
568	Generalization of attributes before mining to enable rule discovery. , 0, , .		1
569	A co-operative hybrid algorithm for fault diagnosis in power transmission. , 0, , .		2
570	An inference mechanism under incomplete knowledge based on rule similarity considering viewpoint. , 0, , .		0
571	Robot action planning via explanation-based learning. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2000, 30, 216-222.	2.9	2
572	Computational complexity of determining resource loops in re-entrant flow lines. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2000, 30, 222-229.	2.9	1
573	Machine Learning and Its Applications. Lecture Notes in Computer Science, 2001, , .	1.3	43
574	Efficient reasoning. ACM Computing Surveys, 2001, 33, 1-30.	23.0	88

#	ARTICLE	IF	CITATIONS
575	Supporting learning in a shared design environment. <i>Advances in Engineering Software</i> , 2001, 32, 285-293.	3.8	15
576	Sequencing via explanation-based learning. <i>International Journal of Intelligent Systems</i> , 2001, 16, 237-262.	5.7	0
577	Computer Go: An AI oriented survey. <i>Artificial Intelligence</i> , 2001, 132, 39-103.	5.8	140
578	Relational Reinforcement Learning. <i>Machine Learning</i> , 2001, 43, 7-52.	5.4	205
579	A Pragmatic Approach to Reuse in Tactical Theorem Proving. <i>Electronic Notes in Theoretical Computer Science</i> , 2001, 58, 203-216.	0.9	5
580	Dynamic rule refinement in knowledge-based data mining systems. <i>Decision Support Systems</i> , 2001, 31, 205-222.	5.9	42
583	Fast suboptimal planning with nexus states. , 0, , .		0
585	A high-level Petri nets-based approach to verifying task structures. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2002, 14, 316-335.	5.7	19
586	Programming service tasks in household environments by human demonstration. , 0, , .		33
587	Learning of associative prediction by experience. <i>Neurocomputing</i> , 2002, 48, 741-762.	5.9	4
588	A mechanism for inferring approximate solutions under incomplete knowledge based on rule similarity. <i>Systems and Computers in Japan</i> , 2002, 33, 78-89.	0.2	1
589	Towards intelligent image retrieval. <i>Pattern Recognition</i> , 2002, 35, 3-14.	8.1	149
590	Decision Planning Knowledge Representation Framework: A Case-Study. <i>Annals of Mathematics and Artificial Intelligence</i> , 2003, 39, 147-174.	1.3	0
591	On learning multicategory classification with sample queries. <i>Information and Computation</i> , 2003, 185, 298-327.	0.7	2
592	Learning extension parameters in game-tree search. <i>Information Sciences</i> , 2003, 154, 95-118.	6.9	15
593	On the use of linguistic consistency in systems for human-computer dialogues. <i>IEEE Transactions on Speech and Audio Processing</i> , 2003, 11, 746-756.	1.5	5
595	Evolving Connectionist Systems. <i>Perspectives in Neural Computing</i> , 2003, , .	0.1	87
596	Using multiple probabilistic hypothesis for programming one and two hand manipulation by demonstration. , 0, , .		8

#	ARTICLE	IF	CITATIONS
598	A symbolic-connectionist theory of relational inference and generalization.. Psychological Review, 2003, 110, 220-264.	3.8	421
599	Autonomous Agents that Learn to Better Coordinate. Autonomous Agents and Multi-Agent Systems, 2004, 8, 267-301.	2.1	14
600	Teaching and learning of robot tasks via observation of human performance. Robotics and Autonomous Systems, 2004, 47, 109-116.	5.1	302
601	Ontology infrastructure for execution-oriented autonomous agents. Robotics and Autonomous Systems, 2004, 49, 113-122.	5.1	9
602	Comparison of first order predicate logic, fuzzy logic and non-monotonic logic as knowledge representation methodology. Expert Systems With Applications, 2004, 27, 501-519.	7.6	16
603	Metacognition in computation: A selected research review. Artificial Intelligence, 2005, 169, 104-141.	5.8	147
604	THE DISCIPLE-RKF LEARNING AND REASONING AGENT. Computational Intelligence, 2005, 21, 462-479.	3.2	15
605	Introduction to the Special Issue on Explanation in Case-Based Reasoning. Artificial Intelligence Review, 2005, 24, 103-108.	15.7	32
606	Towards Cognitive Robots: Building Hierarchical Task Representations of Manipulations from Human Demonstration. , 0, , .		49
607	Verification and Validation and Artificial Intelligence. Advances in Computers, 2005, , 153-201.	1.6	43
608	Six Online Statistics Courses: Examination and Review. American Statistician, 2005, 59, 240-251.	1.6	18
611	Learning goal hierarchies from structured observations and expert annotations. Machine Learning, 2006, 64, 263-287.	5.4	25
612	A model of agent consciousness and its implementation. Neurocomputing, 2006, 69, 1984-1995.	5.9	2
613	A Semiautomatic Approach to Deriving Turbine Generator Diagnostic Knowledge. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 979-992.	2.9	14
614	<scp>PLTOOL</scp>: A knowledge engineering tool for planning and learning. Knowledge Engineering Review, 2007, 22, 153-184.	2.6	3
615	Applying hybrid reasoning to mine for associative features in biological data. Journal of Biomedical Informatics, 2007, 40, 203-220.	4.3	13
616	Global, local and personalised modeling and pattern discovery in bioinformatics: An integrated approach. Pattern Recognition Letters, 2007, 28, 673-685.	4.2	76
617	Structured machine learning: the next ten years. Machine Learning, 2008, 73, 3-23.	5.4	90

#	ARTICLE	IF	CITATIONS
618	The importance of generalizability for anomaly detection. Knowledge and Information Systems, 2008, 14, 377-392.	3.2	7
619	Logic-based robot control in highly dynamic domains. Robotics and Autonomous Systems, 2008, 56, 980-991.	5.1	42
620	LEARNING TO SOLVE PROBLEMS FROM EXERCISES. Computational Intelligence, 2008, 24, 257-291.	3.2	1
621	Perceptron Learning in Engineering Design. Computer-Aided Civil and Infrastructure Engineering, 1989, 4, 247-256.	9.8	146
623	Memory Structures and Organization in Case-Based Reasoning. Studies in Computational Intelligence, 2008, , 175-194.	0.9	13
624	Understanding Models for Learning and Instruction. , 2008, , .		11
625	A constraint-based framework for incorporating a priori knowledge into fuzzy modelling. , 2008, , .		1
626	Explanatory Coherence. , 0, , 471-513.		15
627	Entry into Emergent and Uncertain Product-Markets: The Role of Associative Rhetoric. Academy of Management Journal, 2008, 51, 1171-1188.	6.3	37
628	Symbolic methodology for numeric data mining. Intelligent Data Analysis, 2008, 12, 165-188.	0.9	8
629	An extensive review of research in swarm robotics. , 2009, , .		83
630	Logic and Geometry of Agents in Agent-Based Modeling. , 2009, , 5286-5299.		0
631	Efficient template-based path imitation by invariant feature mapping. , 2009, , .		5
632	Heuristic Revision by Heuristic Space Exploration. , 2009, , .		0
633	Analogical and category-based inference: A theoretical integration with Bayesian causal models.. Journal of Experimental Psychology: General, 2010, 139, 702-727.	2.1	78
634	Assessing process in CSCL: An ontological approach. Computers in Human Behavior, 2010, 26, 825-834.	8.5	27
635	The Role of Explanation in Discovery and Generalization: Evidence From Category Learning. Cognitive Science, 2010, 34, 776-806.	1.7	158
636	Acquisition of Human Expertise in Robotic Assembly. SICE Journal of Control Measurement and System Integration, 2010, 3, 299-308.	0.7	0

#	ARTICLE	IF	CITATIONS
637	A Knowledge-Based System for Sharing and Reusing Tacit Knowledge in Robotic Manufacturing. International Journal of Knowledge and Systems Science, 2010, 1, 61-78.	0.8	2
638	Towards One Shot Learning by imitation for humanoid robots. , 2010, , .		17
639	Inductive Databases and Constraint-Based Data Mining. , 2010, , .		6
640	Affordance-based categorization of road network data using a grounded theory of channel networks. International Journal of Geographical Information Science, 2010, 24, 1249-1267.	4.8	29
641	A hybrid system ensemble based time series signal classification on driver alertness detection. , 2011, , .		2
642	Knowledge Transfer between Automated Planners. AI Magazine, 2011, 32, 79.	1.6	1
643	Classification of melanomas in situ using knowledge discovery with explained case-based reasoning. Artificial Intelligence in Medicine, 2011, 51, 93-105.	6.5	16
644	Concept-based learning of human behavior for customer relationship management. Information Sciences, 2011, 181, 2016-2035.	6.9	53
645	Automatic revision of the control knowledge used by trial and error methods: Application to cartographic generalisation. Applied Soft Computing Journal, 2011, 11, 2818-2832.	7.2	6
646	The Application of Knowledge Representation on the Design of Loading Device of Garbage Truck. Applied Mechanics and Materials, 2011, 121-126, 3568-3572.	0.2	0
647	Towards learning of safety knowledge from human demonstrations. , 2012, , .		3
650	Multi-criteria diagnosis of control knowledge for cartographic generalisation. European Journal of Operational Research, 2012, 217, 633-642.	5.7	11
651	The Knowledgeâ€Learningâ€Instruction Framework: Bridging the Scienceâ€Practice Chasm to Enhance Robust Student Learning. Cognitive Science, 2012, 36, 757-798.	1.7	350
652	Advances onto the Internet of Things. Advances in Intelligent Systems and Computing, 2014, , .	0.6	16
653	Personalized Information Modeling for Personalized Medicine. , 2014, , 533-553.		0
654	A case study of knowledge integration across multiple memories in Soar. Biologically Inspired Cognitive Architectures, 2014, 8, 93-99.	0.9	5
655	A morphable template framework for robot learning by demonstration: Integrating one-shot and incremental learning approaches. Robotics and Autonomous Systems, 2014, 62, 1517-1530.	5.1	16
656	Advances in Computer Games. Lecture Notes in Computer Science, 2015, , .	1.3	0

#	ARTICLE	IF	CITATIONS
657	Meta-interpretive learning of higher-order dyadic datalog: predicate invention revisited. Machine Learning, 2015, 100, 49-73.	5.4	94
658	Applying Ant Colony Optimization algorithms for high-level behavior learning and reproduction from demonstrations. Robotics and Autonomous Systems, 2015, 65, 24-39.	5.1	9
659	Deep learning in neural networks: An overview. Neural Networks, 2015, 61, 85-117.	5.9	12,685
661	Experience-Based Planning Domains: an Integrated Learning and Deliberation Approach for Intelligent Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 83, 463-483.	3.4	8
662	Learning Hierarchical Task Models from Input Traces. Computational Intelligence, 2016, 32, 3-48.	3.2	4
663	Robot task planning and explanation in open and uncertain worlds. Artificial Intelligence, 2017, 247, 119-150.	5.8	91
664	Improving the effectiveness of nondisclosure agreements by strengthening concept learning. R and D Management, 2017, 47, 253-264.	5.3	1
665	Why good data analysts need to be critical synthesists. Determining the role of semantics in data analysis. Future Generation Computer Systems, 2017, 72, 11-22.	7.5	22
666	Explaining clusterings of process instances. Data Mining and Knowledge Discovery, 2017, 31, 774-808.	3.7	15
667	Representation and Computation in Cognitive Models. Topics in Cognitive Science, 2017, 9, 694-718.	1.9	8
668	An adaptive approach for automatic design defects detection in object-oriented systems. , 2017, , .		1
669	Learning robot tasks with loops from experiences to enhance robot adaptability. Pattern Recognition Letters, 2017, 99, 57-66.	4.2	4
670	Natural Language Explanations in Human-Collaborative Systems. , 2017, , .		2
671	Learning and planning of robot tasks with loops. , 2017, , .		0
672	Building machines that adapt and compute like brains. Behavioral and Brain Sciences, 2017, 40, e269.	0.7	7
673	The importance of motivation and emotion for explaining human cognition. Behavioral and Brain Sciences, 2017, 40, e267.	0.7	39
674	Back to the future: The return of cognitive functionalism. Behavioral and Brain Sciences, 2017, 40, e257.	0.7	1
675	Thinking like animals or thinking like colleagues?. Behavioral and Brain Sciences, 2017, 40, e263.	0.7	2

#	ARTICLE	IF	CITATIONS
676	Building on prior knowledge without building it in. Behavioral and Brain Sciences, 2017, 40, e268.	0.7	4
677	Theories or fragments?. Behavioral and Brain Sciences, 2017, 40, e258.	0.7	3
678	Children begin with the same start-up software, but their software updates are cultural. Behavioral and Brain Sciences, 2017, 40, e260.	0.7	3
679	Autonomous development and learning in artificial intelligence and robotics: Scaling up deep learning to human-like learning. Behavioral and Brain Sciences, 2017, 40, e275.	0.7	6
680	Human-like machines: Transparency and comprehensibility. Behavioral and Brain Sciences, 2017, 40, e276.	0.7	9
681	Causal generative models are just a start. Behavioral and Brain Sciences, 2017, 40, e262.	0.7	4
682	Social-motor experience and perception-action learning bring efficiency to machines. Behavioral and Brain Sciences, 2017, 40, e273.	0.7	0
683	Ingredients of intelligence: From classic debates to an engineering roadmap. Behavioral and Brain Sciences, 2017, 40, e281.	0.7	11
684	Building machines that learn and think for themselves. Behavioral and Brain Sciences, 2017, 40, e255.	0.7	17
685	Evidence from machines that learn and think like people. Behavioral and Brain Sciences, 2017, 40, e264.	0.7	2
686	Understand the cogs to understand cognition. Behavioral and Brain Sciences, 2017, 40, e272.	0.7	1
687	Building machines that learn and think like people. Behavioral and Brain Sciences, 2017, 40, e253.	0.7	978
688	Benefits of embodiment. Behavioral and Brain Sciences, 2017, 40, e271.	0.7	2
689	Digging deeper on "deep" learning: A computational ecology approach. Behavioral and Brain Sciences, 2017, 40, e256.	0.7	6
690	Deep-learning networks and the functional architecture of executive control. Behavioral and Brain Sciences, 2017, 40, e261.	0.7	1
691	What can the brain teach us about building artificial intelligence?. Behavioral and Brain Sciences, 2017, 40, e265.	0.7	3
692	Building brains that communicate like machines. Behavioral and Brain Sciences, 2017, 40, e266.	0.7	2
693	Intelligent machines and human minds. Behavioral and Brain Sciences, 2017, 40, e277.	0.7	0

#	ARTICLE	IF	CITATIONS
694	Crossmodal lifelong learning in hybrid neural embodied architectures. Behavioral and Brain Sciences, 2017, 40, e280.	0.7	1
695	The humanness of artificial non-normative personalities. Behavioral and Brain Sciences, 2017, 40, e259.	0.7	5
696	Avoiding frostbite: It helps to learn from others. Behavioral and Brain Sciences, 2017, 40, e279.	0.7	3
697	An approach to robot task learning and planning with loops. , 2017, , .		1
698	The architecture challenge: Future artificial-intelligence systems will require sophisticated architectures, and knowledge of the brain might guide their construction. Behavioral and Brain Sciences, 2017, 40, e254.	0.7	5
699	Will human-like machines make human-like mistakes?. Behavioral and Brain Sciences, 2017, 40, e270.	0.7	2
700	The argument for single-purpose robots. Behavioral and Brain Sciences, 2017, 40, e274.	0.7	0
701	The fork in the road. Behavioral and Brain Sciences, 2017, 40, e278.	0.7	0
702	Prototyping a precision oncology 3.0 rapid learning platform. BMC Bioinformatics, 2018, 19, 341.	2.6	4
703	Ultra-Strong Machine Learning: comprehensibility of programs learned with ILP. Machine Learning, 2018, 107, 1119-1140.	5.4	67
704	Explanatory Interactive Machine Learning. , 2019, , .		76
705	Learning the Scope of Applicability for Task Planning Knowledge in Experience-Based Planning Domains. , 2019, , .		2
706	Explanation in artificial intelligence: Insights from the social sciences. Artificial Intelligence, 2019, 267, 1-38.	5.8	1,938
707	Stack generalized deep ensemble learning for retinal layer segmentation in Optical Coherence Tomography images. Biocybernetics and Biomedical Engineering, 2020, 40, 1343-1358.	5.9	8
708	Investigating the effects of explanatory-based food safety training: A model of domain knowledge theory perspective. International Journal of Hospitality Management, 2020, 91, 102688.	8.8	3
709	Conflict Generalisation in ASP: Learning Correct and Effective Non-Ground Constraints. Theory and Practice of Logic Programming, 2020, 20, 799-814.	1.5	1
710	Expectations for agents with goal-driven autonomy. Journal of Experimental and Theoretical Artificial Intelligence, 2020, , 1-23.	2.8	0
712	A historical perspective of explainable Artificial Intelligence. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2021, 11, e1391.	6.8	116

#	ARTICLE	IF	CITATIONS
713	Toward next-generation learned robot manipulation. <i>Science Robotics</i> , 2021, 6, .	17.6	34
714	Exploring ideation strategies as an opportunity to support and evaluate making. <i>Information and Learning Science</i> , 2021, 12, 127-146.	1.3	2
715	How Does Explanation-Based Knowledge Influence Driver Take-Over in Conditional Driving Automation?. <i>IEEE Transactions on Human-Machine Systems</i> , 2021, 51, 188-197.	3.5	6
716	Machine learning on sustainable energy: A review and outlook on renewable energy systems, catalysis, smart grid and energy storage. <i>Chemical Engineering Research and Design</i> , 2021, 174, 414-441.	5.6	91
718	Fundamental mechanisms in machine learning and inductive inference: Part 2. <i>Lecture Notes in Computer Science</i> , 1988, , 125-145.	1.3	3
719	Input understanding as a basis for multistrategy task-adaptive learning. <i>Lecture Notes in Computer Science</i> , 1991, , 419-428.	1.3	6
720	Unifying learning methods by colored digraphs. <i>Lecture Notes in Computer Science</i> , 1993, , 342-355.	1.3	5
721	Learning information extraction patterns from examples. <i>Lecture Notes in Computer Science</i> , 1996, , 246-260.	1.3	66
722	Learning = Inferencing + Memorizing. , 1993, , 1-41.		5
723	Extending Partial Evaluation in Logic Programming. , 1992, , 95-107.		2
724	Model-Based Learning of Rules for Error Diagnosis. <i>Informatik-Fachberichte</i> , 1988, , 196-205.	0.2	6
725	Constructing decision trees from examples and their explanation-based generalizations. <i>Informatik-Fachberichte</i> , 1990, , 267-276.	0.2	1
726	Learning the User's Language: A Step Towards Automated Creation of User Models. , 1989, , 163-194.		13
728	LEARNING BY EXPERIMENTATION. , 1990, , 191-213.		29
729	LEARNING FAULT DIAGNOSIS HEURISTICS FROM DEVICE DESCRIPTIONS. , 1990, , 214-234.		2
730	OGUST. , 1990, , 360-382.		11
731	CONDITIONAL OPERATIONALITY AND EXPLANATION-BASED GENERALIZATION. , 1990, , 383-395.		1
732	GUIDING INDUCTION WITH DOMAIN THEORIES ¹¹ This chapter is a longer version of a paper printed in <i>Proceedings of the Fifth International Conference on Machine Learning</i> , 1988, Morgan Kaufmann Publishers, San Mateo, CA. , 1990, , 474-492.		15

#	ARTICLE	IF	CITATIONS
733	APPRENTICESHIP LEARNING IN IMPERFECT DOMAIN THEORIES. , 1990, , 514-551.		18
735	The Chunking of Skill and Knowledge. , 1989, , 391-410.		13
736	ARGO: AN ANALOGICAL REASONING SYSTEM FOR SOLVING DESIGN PROBLEMS. , 1992, , 105-143.		14
737	ANALYSIS-BASED LEARNING IN HUMAN-COMPUTER INTERACTION. , 1987, , 275-280.		6
738	Protos: An Exemplar-Based Learning Apprentice11Support for this research was provided by the Army Research Office under grant number ARO DAAG29-84-K-0060 and the National Science Foundation under grant number IST-8510999.. , 1987, , 12-23.		22
739	Concept Learning in Context. , 1987, , 91-102.		16
740	Acquiring Effective Search Control Rules: Explanation-Based Learning in the PRODIGY System. , 1987, , 122-133.		30
741	Learning and Reusing Explanations. , 1987, , 141-147.		6
742	Inducing Causal and Social Theories: A Prerequisite for Explanation-based Learning. , 1987, , 230-241.		19
743	Learning by Experimentation. , 1987, , 256-266.		38
744	Causal Analysis and Inductive Learning. , 1987, , 288-299.		8
745	Varieties of Learning in Soar: 1987. , 1987, , 300-311.		21
746	Searching for Operational Concept Descriptions in BAR, MetaLEX, and EBC. , 1987, , 376-382.		8
747	Explanation-Based Generalization as Resolution Theorem Proving. , 1987, , 383-389.		81
748	Analogy and Single-Instance Generalization. , 1987, , 390-397.		11
749	Reasoning about Operationality for Explanation-Based Learning. , 1988, , 214-220.		11
750	ACTIVE EXPLANATION REDUCTION: An Approach to the Multiple Explanations Problem11This research was supported in part by the Office of Naval Research under grant Nâ€™00014â€™86â€™Kâ€™0309.. , 1988, , 242-255.		11
751	Generalizing Number and Learning from Multiple Examples in Explanation Based Learning. , 1988, , 256-269.		28

#	ARTICLE	IF	CITATIONS
752	Generalizing the Order of Operators in Macro-Operators. , 1988, , 270-283.		15
753	Using Experience-Based Learning in Game Playing. , 1988, , 284-290.		13
754	Integrated Learning with Incorrect and Incomplete Theories. , 1988, , 291-297.		28
755	An Approach Based on Integrated Learning to Generating Stories from Stories. , 1988, , 298-304.		7
756	A KNOWLEDGE INTENSIVE APPROACH TO CONCEPT INDUCTION. , 1988, , 305-317.		47
757	Two New Frameworks for Learning. , 1988, , 402-415.		16
758	Hypothesis Filtering: A Practical Approach to Reliable Learning. , 1988, , 416-429.		12
759	Harpoons and Long Sticks: The Interaction of Theory and Similarity in Rule Induction. , 1991, , 237-278.		24
760	Concept Formation in Context. , 1991, , 307-322.		11
761	A Computational Account of Children's Learning About Number Conservation. , 1991, , 423-462.		2
762	Learning, Planning, and Scheduling: An Overview. , 1993, , 1-29.		6
763	Toward Scaling Up Machine Learning: A Case Study with Derivational Analogy in PRODIGY. , 1993, , 233-272.		11
764	Toward a Theory of Agency. , 1993, , 351-396.		6
765	MULTI-STRATEGY LEARNING IN NONHOMOGENEOUS DOMAIN THEORIES. , 1989, , 14-16.		4
766	COMBINING CASE-BASED REASONING, EXPLANATION-BASED LEARNING, AND LEARNING FROM INSTRUCTION. , 1989, , 20-22.		9
767	ONE-SIDED ALGORITHMS FOR INTEGRATING EMPIRICAL AND EXPLANATION-BASED LEARNING. , 1989, , 26-28.		7
768	COMBINING EMPIRICAL AND ANALYTICAL LEARNING WITH VERSION SPACES. , 1989, , 29-33.		18
769	FINDING NEW RULES FOR INCOMPLETE THEORIES: EXPLICIT BIASES FOR INDUCTION WITH CONTEXTUAL INFORMATION. , 1989, , 34-36.		29

#	ARTICLE	IF	CITATIONS
770	LEARNING FROM PLAUSIBLE EXPLANATIONS ¹¹ Most of this work was completed under Prof. Don Smith at Rutgers University. Mike Pazzani, Andrea Danyluk and Bernard Silver provided valuable comments on earlier drafts of this paper. , 1989, , 37-39.		9
771	AUGMENTING DOMAIN THEORY FOR EXPLANATION-BASED GENERALISATION. , 1989, , 40-42.		11
772	Adaptation-Based Explanation: Explanations as Cases**This work was supported in part by the Defense Advanced Research Projects Agency, monitored by the Office of Naval Research under contract N0014-85-K-0108 and by the Air Force Office of Scientific Research, under contracts F49620-88-C-0058 and AFOSR-89-0100.. , 1989, , 49-51.		5
773	ERROR CORRECTION IN CONSTRUCTIVE INDUCTION. , 1989, , 81-83.		9
774	LEARNING TO PLAN IN COMPLEX DOMAINS. , 1989, , 180-182.		5
775	AN EMPIRICAL ANALYSIS OF EBL APPROACHES FOR LEARNING PLAN SCHEMATA. , 1989, , 183-187.		5
776	LEARNING INVARIANTS FROM EXPLANATIONS. , 1989, , 200-204.		2
777	Approximating Learned Search Control Knowledge. , 1989, , 218-220.		9
778	Planning in Games Using Approximately Learned Macros. , 1989, , 221-223.		5
779	Higher-Order and Modal Logic as a Framework for Explanation-Based Generalization. , 1989, , 447-449.		5
780	COMPARING SYSTEMS AND ANALYZING FUNCTIONS TO IMPROVE CONSTRUCTIVE INDUCTION. , 1989, , 461-464.		11
781	Search Control, Utility, and Concept Induction**This research was supported by NASA Ames grant NCC 2â€“645.. , 1990, , 85-92.		2
782	An Analysis of Representation Shift In Concept Learning. , 1990, , 104-112.		6
783	Applying Abstraction and Simplification to Learn in Intractable Domains. , 1990, , 277-285.		3
784	Explanation-Based Learning with Incomplete Theories: A Three-step Approach. , 1990, , 286-294.		9
785	Incremental Learning of Explanation Patterns and their Indices. , 1990, , 313-320.		8
786	Incremental Version-Space Merging. , 1990, , 330-338.		1
787	Average Case Analysis of Conjunctive Learning Algorithms. , 1990, , 339-347.		9

#	ARTICLE	IF	CITATIONS
788	ILS: A Framework for Multi-Paradigmatic Learning. , 1990, , 348-356.		13
789	The General Utility Problem in Machine Learning. , 1990, , 402-410.		6
790	Combining Evidence of Deep and Surface Similarity. , 1991, , 46-50.		3
791	A Constraint-Motivated Model of Lexical Acquisition. , 1991, , 95-99.		31
792	Relational clickàs: Constraining constructive induction during relational learning. , 1991, , 203-207.		32
793	Learning in Intelligent Information Retrieval. , 1991, , 235-239.		25
794	Learning from Deliberated Reactivity. , 1991, , 318-322.		1
795	An Investigation of Noise-Tolerant Relational Concept Learning Algorithms. , 1991, , 389-393.		38
796	A knowledge-intensive approach to learning relational concepts. , 1991, , 432-436.		36
797	Refinement of Approximate Reasoning-based Controllers by Reinforcement Learning. , 1991, , 475-479.		30
798	A Hybrid Approach to Guaranteed Effective Control Strategies. , 1991, , 509-513.		8
799	A Method for Multistrategy Task-adaptive Learning Based on Plausible Justifications. , 1991, , 549-553.		4
800	Eliminating Redundancy in Explanation-Based Learning. , 1992, , 37-42.		5
801	Lazy Partial Evaluation: An Integration of Explanation-Based Generalisation and Partial Evaluation. , 1992, , 82-91.		7
802	Multistrategy Learning with Introspective Meta-Explanations. , 1992, , 123-128.		13
803	An Asymptotic Analysis of Speedup Learning. , 1992, , 129-136.		3
804	An Analysis of Learning to Plan as a Search Problem. , 1992, , 179-188.		2
805	Enhancing Transfer in Reinforcement Learning by Building Stochastic Models of Robot Actions. , 1992, , 290-299.		17

#	ARTICLE	IF	CITATIONS
806	THOUGHT: An Integrated Learning System for Acquiring Knowledge Structure. , 1992, , 300-309.		1
807	DYNAMIC: A new role for training problems in EBL. , 1992, , 367-372.		7
808	Learning Episodes for Optimization**This work was partially supported by the National Science Foundation.. , 1992, , 379-384.		6
809	Measuring Utility and the Design of Provably Good EBL Algorithms. , 1992, , 426-435.		7
810	Learning procedures from interactive natural language instructions. , 1993, , 143-150.		14
811	Explanation Based Learning: A Comparison of Symbolic and Neural Network Approaches. , 1993, , 197-204.		5
812	An Incremental Learning Approach for Completable Planning. , 1994, , 78-86.		2
813	Learning by Experimentation: Incremental Refinement of Incomplete Planning Domains. , 1994, , 87-95.		47
814	A cognitive odyssey: From the power law of practice to a general learning mechanism and beyond. Tutorials in Quantitative Methods for Psychology, 2006, 2, 43-51.	2.8	11
815	Abduction in Machine Learning. , 2000, , 197-229.		5
816	Artificial Intelligence Classifiers and Their Social Impact. Studies in Fuzziness and Soft Computing, 2001, , 170-194.	0.8	0
817	Architektury kognitywne, czyli jak zbudowaÄ sztuczny umysÅ, .. , 2009, , .		5
818	Building a Lazy Domain Theory for Characterizing Malignant Melanoma. Advances in Medical Technologies and Clinical Practice Book Series, 2012, , 290-308.	0.3	0
820	On the Tractability of Learning from Incomplete Theories. , 1988, , 235-241.		5
821	Boundaries of Operationality. , 1988, , 221-234.		12
822	EXPLANATION-BASED ACCELERATION OF SIMILARITY-BASED LEARNING. , 1989, , 58-60.		3
823	CONCEPTUAL CLUSTERING OF EXPLANATIONS. , 1989, , 8-10.		2
824	EXPLANATION-BASED LEARNING OF REACTIVE OPERATORS. , 1989, , 252-254.		5

#	ARTICLE	IF	CITATIONS
825	A Framework for Improving Efficiency and Accuracy. , 1989, , 78-80.		1
826	LEARNING PROCEDURAL KNOWLEDGE IN THE EBG CONTEXT. , 1989, , 197-199.		2
827	Towards A Formal Analysis of EBL. , 1989, , 450-453.		3
828	KNOWLEDGE BASE REFINEMENT AND THEORY REVISION. , 1989, , 260-265.		7
830	Explanation Based Learning as Constrained Search. , 1989, , 43-45.		1
831	Explanation and Connectionism. Informatik-Fachberichte, 1989, , 118-127.	0.2	1
832	MACHINE LEARNING STRATEGIES FOR KNOWLEDGE ACQUISITION IN AUTONOMOUS ROBOT SYSTEMS. , 1989, , 5-15.		1
833	KNOWLEDGE BASE REFINEMENT AS IMPROVING AN INCORRECT, INCONSISTENT AND INCOMPLETE DOMAIN THEORY. , 1989, , 332-337.		5
834	Toward automated rational reconstruction: A case study. , 1989, , 302-307.		3
835	IMPROVING EXPLANATION-BASED INDEXING WITH EMPIRICAL LEARNING. , 1989, , 84-86.		2
836	USING DETERMINATIONS IN EBL: A SOLUTION TO THE INCOMPLETE THEORY PROBLEM. , 1989, , 320-325.		8
837	A DESCRIPTION OF PREFERENCE CRITERION IN CONSTRUCTIVE LEARNING: A Discussion of Basic Issues. , 1989, , 17-19.		4
838	ISSUES IN THE JUSTIFICATION-BASED DIAGNOSIS OF PLANNING FAILURES. , 1989, , 194-196.		3
839	IMPROVING DECISION-MAKING ON THE BASIS OF EXPERIENCE. , 1989, , 55-57.		1
840	ENRICHING VOCABULARIES BY GENERALIZING EXPLANATION STRUCTURES**This research was partially supported by a grant from the University of Wisconsin-Madison Graduate School.. , 1989, , 444-446.		1
841	LEARNING APPROXIMATE PLANS FOR USE IN THE REAL WORLD**This research was supported by the Office of Naval Research under grant ONR N00014-86-K-0309.. , 1989, , 224-228.		3
842	IDENTIFYING KNOWLEDGE BASE DEFICIENCIES BY OBSERVING USER BEHAVIOR. , 1989, , 296-301.		2
845	THE UTILITY OF SIMILARITY-BASED LEARNING IN A WORLD NEEDING EXPLANATION. , 1990, , 399-422.		0

#	ARTICLE	IF	CITATIONS
846	BIBLIOGRAPHY OF RECENT MACHINE LEARNING RESEARCH 1985â€“1989. , 1990, , 685-789.		0
847	LEARNING EXPERT KNOWLEDGE BY IMPROVING THE EXPLANATIONS PROVIDED BY THE SYSTEM. , 1990, , 433-465.		3
848	DISCOVERING ALGORITHMS FROM WEAK METHODS11This work was originally published in the Proceedings of the International Meeting on Advances in Learning, Les Arcs, July. 1986. Since then, others [Shavlik, 1987; Cheng, 1986] have pursued similar workâ€”the references are included here for the interested reader... , 1990, , 351-359.		0
849	Correcting and Extending Domain Knowledge using Outside Guidance. , 1990, , 235-243.		17
851	Constructing decision trees from examples and their explanation-based generalizations. Lecture Notes in Computer Science, 1990, , 204-216.	1.3	0
852	Comparative Analysis. , 1990, , 397-416.		1
853	Reducing Real-world Failures of Approximate Explanation-based Rules. , 1990, , 226-234.		10
854	ACQUIRING GENERAL ITERATIVE CONCEPTS BY REFORMULATING EXPLANATIONS OF OBSERVED EXAMPLES. , 1990, , 302-350.		3
855	An Integrated Framework of Inducing Rules From Examples. , 1990, , 357-365.		1
856	KNOWLEDGE BASE REFINEMENT AS IMPROVING AN INCORRECT AND INCOMPLETE DOMAIN THEORY. , 1990, , 493-513.		19
857	On Becoming Decreasingly Reactive: Learning to Deliberate Minimally. , 1991, , 288-292.		3
858	Concept Formation over Problem-Solving Experience. , 1991, , 279-303.		7
859	Explanation-Based Learning as Concept Formation. , 1991, , 179-205.		2
860	Revision Cost for Theory Refinement. , 1991, , 514-518.		0
861	Generalization for a propositional calculus: a constraints-based approach. Lecture Notes in Computer Science, 1991, , 264-277.	1.3	0
862	The Psychological Processes of Constructing a Mental Model when Learning by being Told, from Examples, and by Exploration. Human Factors in Information Technology, 1991, 2, 337-360.	0.2	2
863	Identifying Cost Effective Boundaries of Operationality. , 1991, , 569-573.		0
864	The DUCTOR: A Theory Revision System for Propositional Domains. , 1991, , 485-489.		8

#	ARTICLE	IF	CITATIONS
865	Representation of mathematical knowledge. Lecture Notes in Computer Science, 1991, , 469-478.	1.3	1
866	Relations, Knowledge and Empirical Learning. , 1991, , 188-192.		2
867	Improving Learning Using Causality and Abduction. , 1991, , 480-484.		0
868	A knowledge acquisition system for conceptual design based on functional and rational explanations of designed objects. , 1991, , 281-300.		5
869	Learning with Inscrutable Theories. , 1991, , 544-548.		3
871	Hybrid Symbolic-Neural Methods for Improved Recognition Using High-Level Visual Features. , 1992, , 445-461.		0
872	Why EBL Produces Overly-Specific Knowledge: A Critique of the PRODIGY Approaches. , 1992, , 137-143.		6
874	Augmenting and Efficiently Utilizing Domain Theory in Explanation-Based Natural Language Acquisition. , 1992, , 282-289.		2
875	A Framework of Simplifications in Learning to Plan. , 1992, , 78-87.		2
876	Correcting Imperfect Domain Theories: A Knowledge-Level Analysis. , 1993, , 209-244.		1
877	A First Theory of Plausible Inference and Its Use in Continuous Domain Planning. , 1993, , 93-124.		0
878	Bias in Planning and Explanation-Based Learning. , 1993, , 197-232.		0
879	Explaining and Generalizing Diagnostic Decisions. , 1993, , 228-235.		0
880	Teilautomatische Wissenstransformationen zur Unterstützung der Wissensakquisition. Informatik Aktuell, 1993, , 153-166.	0.6	3
882	ADAPTIVE AND EVOLUTIONARY ROBOTICS - A NEW ARCHITECTURE FOR LEARNING-BASED AUTONOMOUS SPACE ROBOT. , 1993, , 313-318.		0
883	Adapting Plan Architectures. , 1993, , 435-466.		0
884	Integrating machine-learning techniques in knowledge-based systems verification. Lecture Notes in Computer Science, 1993, , 405-414.	1.3	0
887	Improving Accuracy of Incorrect Domain Theories. , 1994, , 19-27.		1

#	ARTICLE	IF	CITATIONS
888	Explanation-Based Learning and Reinforcement Learning: A Unified View. , 1995, , 176-184.		11
889	Case-based planning to learn. Lecture Notes in Computer Science, 1997, , 467-476.	1.3	2
890	Lemma Generalization and Non-unit Lemma Matching for Model Elimination. Lecture Notes in Computer Science, 1999, , 163-176.	1.3	0
891	Metaprogramming Domain Specific Metaprograms. Lecture Notes in Computer Science, 1999, , 235-249.	1.3	0
892	A Knowledge-Based System for Sharing and Reusing Tacit Knowledge in Robotic Manufacturing. , 0, , 308-326.		0
893	An intelligent control system for visual languages. , 0, , .		0
894	Meta-Residual Policy Learning: Zero-Trial Robot Skill Adaptation via Knowledge Fusion. IEEE Robotics and Automation Letters, 2022, 7, 3656-3663.	5.1	8
896	Jacques Pitrat, l��Intelligence Artificielle et les Jeux. , 2022, 3, 113-126.		0
897	Toward verified artificial intelligence. Communications of the ACM, 2022, 65, 46-55.	4.5	64
898	A framework for falsifiable explanations of machine learning models with an application in computational pathology. Medical Image Analysis, 2022, 82, 102594.	11.6	4
899	Leveraging explanations in interactive machine learning: An overview. Frontiers in Artificial Intelligence, 0, 6, .	3.4	9
900	Leveraging Synergies Between AI and Networking to Build Next Generation Edge Networks. , 2022, , .		0
901	An astonishing regularity in student learning rate. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	7.1	8
902	A robust and consistent stack generalized ensemble-learning framework for image segmentation. Journal of Engineering and Applied Science, 2023, 70, .	2.0	1
904	Technical Solutions. SpringerBriefs in Law, 2024, , 83-91.	0.0	0
905	Modeling Cognitive Problem-Solving Processes. Advances in Educational Technologies and Instructional Design Book Series, 2023, , 338-352.	0.2	0