Henry Kautz

List of Publications by Year
in descending order

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77 papers	5,506 citations	279798 23 h-index	206112 48 g-index
83 all docs	83 docs citations	83 times ranked	3883 citing authors

#	Article	IF	Citations
1	Inferring Activities from Interactions with Objects. IEEE Pervasive Computing, 2004, 3, 50-57.	1.3	689
2	Referral Web. Communications of the ACM, 1997, 40, 63-65.	4.5	619
3	Learning and inferring transportation routines. Artificial Intelligence, 2007, 171, 311-331.	5.8	480
4	Extracting Places and Activities from GPS Traces Using Hierarchical Conditional Random Fields. International Journal of Robotics Research, 2007, 26, 119-134.	8.5	379
5	Activity recognition using the velocity histories of tracked keypoints. , 2009, , .		326
6	Inferring High-Level Behavior from Low-Level Sensors. Lecture Notes in Computer Science, 2003, , 73-89.	1.3	267
7	Heavy-Tailed Phenomena in Satisfiability and Constraint Satisfaction Problems. Journal of Automated Reasoning, 2000, 24, 67-100.	1.4	250
8	Finding your friends and following them to where you are. , 2012, , .		233
9	Local search strategies for satisfiability testing. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 1996, , 521-531.	0.0	218
10	Knowledge compilation and theory approximation. Journal of the ACM, 1996, 43, 193-224.	2.2	163
11	Constraint Propagation Algorithms for Temporal Reasoning: A Revised Report. , 1990, , 373-381.		149
12	Chapter 2 Satisfiability Solvers. Foundations of Artificial Intelligence, 2008, 3, 89-134.	0.9	125
13	Hard problems for simple default logics. Artificial Intelligence, 1991, 49, 243-279.	5.8	114
14	Hierarchical organization of urban mobility and its connection with city livability. Nature Communications, 2019, 10, 4817.	12.8	105
15	Opportunity Knocks: A System to Provide Cognitive Assistance with Transportation Services. Lecture Notes in Computer Science, 2004, , 433-450.	1.3	99
16	Real-time crowd labeling for deployable activity recognition. , 2013, , .		92
17	Horn approximations of empirical data. Artificial Intelligence, 1995, 74, 129-145.	5.8	79
18	Building Personal Maps from GPS Data. Annals of the New York Academy of Sciences, 2006, 1093, 249-265.	3.8	69

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19	Improving the recognition of interleaved activities. , 2008, , .		51
20	A general stochastic approach to solving problems with hard and soft constraints. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 1997, , 573-585.	0.0	51
21	Image Annotation Within the Context of Personal Photo Collections Using Hierarchical Event and Scene Models. IEEE Transactions on Multimedia, 2009, 11, 208-219.	7.2	50
22	Indoor wayfinding:. , 2006, , .		48
23	Model-preference default theories. Artificial Intelligence, 1990, 45, 287-322.	5.8	45
24	Indoor wayfinding: Developing a functional interface for individuals with cognitive impairments. Disability and Rehabilitation: Assistive Technology, 2008, 3, 69-81.	2.2	45
25	The state of SAT. Discrete Applied Mathematics, 2007, 155, 1514-1524.	0.9	42
26	Uncovering the socioeconomic facets of human mobility. Scientific Reports, 2021, 11, 8616.	3.3	42
27	Natural Language Processing for the Identification of Surgical Site Infections in Orthopaedics. Journal of Bone and Joint Surgery - Series A, 2019, 101, 2167-2174.	3.0	37
28	Bottom-up design of software agents. Communications of the ACM, 1994, 37, 143-146.	4.5	32
29	Modeling the impact of lifestyle on health at scale. , 2013, , .		31
30	The Relationships of Deteriorating Depression and Anxiety With Longitudinal Behavioral Changes in Google and YouTube Use During COVID-19: Observational Study. JMIR Mental Health, 2020, 7, e24012.	3.3	30
31	Discovery of social relationships in consumer photo collections using Markov Logic. , 2008, , .		29
32	Capturing Spontaneous Conversation and Social Dynamics: A Privacy-Sensitive Data Collection Effort. , 2007, , .		28
33	Auto-Walksat: A Self-Tuning Implementation of Walksat. Electronic Notes in Discrete Mathematics, 2001, 9, 360-368.	0.4	26
34	Crowdsourcing medical expertise in near real time. Journal of Hospital Medicine, 2014, 9, 451-456.	1.4	24
35	Cognitive support technologies for people with TBI: current usage and challenges experienced. Disability and Rehabilitation: Assistive Technology, 2014, 9, 279-285.	2.2	24
36	Tales of Two Cities: Using Social Media to Understand Idiosyncratic Lifestyles in Distinctive Metropolitan Areas. IEEE Transactions on Big Data, 2017, 3, 55-66.	6.1	24

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37	Balance and Filtering in Structured Satisfiable Problems (Preliminary Report). Electronic Notes in Discrete Mathematics, 2001, 9, 2-18.	0.4	23
38	Discriminative Unsupervised Alignment of Natural Language Instructions with Corresponding Video Segments. , 2015, , .		23
39	Ten Challenges Redux: Recent Progress in Propositional Reasoning and Search. Lecture Notes in Computer Science, 2003, , 1-18.	1.3	22
40	Interactive activity recognition and prompting to assist people with cognitive disabilities. Journal of Ambient Intelligence and Smart Environments, 2012, 4, 443-459.	1.4	21
41	Restart Policies with Dependence among Runs: A Dynamic Programming Approach. Lecture Notes in Computer Science, 2002, , 573-586.	1.3	20
42	Mining GPS traces and visual words for event classification. , 2008, , .		19
43	Customizing directions in an automated wayfinding system for individuals with cognitive impairment. , 2009, , .		19
44	A Bayesian Approach to Tackling Hard Computational Problems (Preliminary Report). Electronic Notes in Discrete Mathematics, 2001, 9, 376-391.	0.4	17
45	Integer optimization models of AI planning problems. Knowledge Engineering Review, 2000, 15, 101-117.	2.6	16
46	Monitoring adolescent alcohol use via multimodal analysis in social multimedia. , 2015, , .		16
47	A Markov logic framework for recognizing complex events from multimodal data. , 2013, , .		15
48	Home location inference from sparse and noisy data: models and applications. Frontiers of Information Technology and Electronic Engineering, 2016, 17, 389-402.	2.6	15
49	The third AI summer: AAAI Robert S. Engelmore Memorial Lecture. AI Magazine, 2022, 43, 105-125.	1.6	15
50	Informing the design of an automated wayfinding system for individuals with cognitive impairments. , 2009, , .		14
51	Detecting Low Self-Esteem in Youths from Web Search Data. , 2019, , .		14
52	A patient-centered digital scribe for automatic medical documentation. JAMIA Open, 2021, 4, ooab003.	2.0	13
53	Efficacy of Web-Based Collection of Strength-Based Testimonials for Text Message Extension of Youth Suicide Prevention Program: Randomized Controlled Experiment. JMIR Public Health and Surveillance, 2016, 2, e164.	2.6	11
54	Forming concepts for fast inference. Lecture Notes in Computer Science, 1994, , 200-215.	1.3	11

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55	A general framework for knowledge compilation. , 1991, , 287-300.		9
56	Predicting acute kidney injury at hospital re-entry using high-dimensional electronic health record data. PLoS ONE, 2018, 13, e0204920.	2.5	9
57	Planning and Plan Recognition. At&T Technical Journal, 1988, 67, 25-40.	0.3	8
58	Annotating collections of photos using hierarchical event and scene models. , 2008, , .		8
59	Inferring Home Location from User's Photo Collections based on Visual Content and Mobility Patterns. , 2014, , .		6
60	Home Location Inference from Sparse and Noisy Data: Models and Applications. , 2015, , .		6
61	Node view. , 2015, , .		4
62	Combining Subjective Probabilities and Data in Training Markov Logic Networks. Lecture Notes in Computer Science, 2012, , 90-105.	1.3	4
63	MIND. , 2020, , .		3
64	Implications for Location Systems in Indoor Wayfinding for Individuals with Cognitive Impairments. , 2006, , .		2
65	Aligning movies with scripts by exploiting temporal ordering constraints. , 2016, , .		2
66	Discovering intimate partner violence from web search history. Smart Health, 2021, 19, 100161.	3.2	2
67	Inferring Nighttime Satellite Imagery from Human Mobility. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 394-402.	4.9	2
68	Reply to: On the difficulty of achieving differential privacy in practice: user-level guarantees in aggregate location data. Nature Communications, 2022, 13, 30.	12.8	2
69	AI Theory and Practice: A Discussion on Hard Challenges and Opportunities Ahead. AI Magazine, 2010, 31, 103.	1.6	1
70	AAAI Leadership Transition. AI Magazine, 2010, 31, 7-7.	1.6	1
71	Logicism is alive and well. Computational Intelligence, 1987, 3, 161-162.	3.2	0
72	2433. Journal of Clinical and Translational Science, 2017, 1, 41-41.	0.6	0

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73	Modeling Success, Failure, and Intent of Multi-Agent Activities Under Severe Noise. , 2012, , 9-63.		0
74	Energy-Aware Intelligence in Smart Spaces. , 2012, , 366-382.		0
75	Technical Perspective: Combining logic and probability. Communications of the ACM, 2016, 59, 106-106.	4.5	0
76	CupQ: A New Clinical Literature Search Engine. , 2019, , .		0
77	Energy-Aware Intelligence in Smart Spaces. , 0, , 640-657.		0