

# David Kotz

## List of Publications by Year in descending order

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Version: 2024-02-01

175  
papers

6,067  
citations

159358

30  
h-index

123241

61  
g-index

190  
all docs

190  
docs citations

190  
times ranked

4728  
citing authors

#	ARTICLE	IF	CITATIONS
1	A bilingual advantage in task switching. <i>Bilingualism</i> , 2010, 13, 253-262.	1.0	453
2	Anonymsense. , 2008, , .		293
3	A multiple process solution to the logical problem of language acquisition. <i>Journal of Child Language</i> , 2004, 31, 883-914.	0.8	260
4	Mobile agents and the future of the internet. <i>Operating Systems Review (ACM)</i> , 1999, 33, 7-13.	1.5	203
5	MODELS OF THE EMERGENCE OF LANGUAGE. <i>Annual Review of Psychology</i> , 1998, 49, 199-227.	9.9	177
6	Analysis of a Campus-Wide Wireless Network. <i>Wireless Networks</i> , 2005, 11, 115-133.	2.0	172
7	Privacy in mobile technology for personal healthcare. <i>ACM Computing Surveys</i> , 2012, 45, 1-54.	16.1	160
8	AnonySense: A system for anonymous opportunistic sensing. <i>Pervasive and Mobile Computing</i> , 2011, 7, 16-30.	2.1	143
9	Disk-directed I/O for MIMD multiprocessors. <i>ACM Transactions on Computer Systems</i> , 1997, 15, 41-74.	0.6	138
10	The changing usage of a mature campus-wide wireless network. <i>Computer Networks</i> , 2008, 52, 2690-2712.	3.2	134
11	Privacy and Security in Mobile Health: A Research Agenda. <i>Computer</i> , 2016, 49, 22-30.	1.2	134
12	The role of arousal in memory for conversation. <i>Memory and Cognition</i> , 1982, 10, 308-317.	0.9	130
13	D'Agents: Applications and performance of a mobile-agent system. <i>Software - Practice and Experience</i> , 2002, 32, 543-573.	2.5	104
14	Shared and separate meanings in the bilingual mental lexicon. <i>Bilingualism</i> , 2005, 8, 221-238.	1.0	104
15	Privacy in Location-Aware Computing Environments. <i>IEEE Pervasive Computing</i> , 2007, 6, 64-72.	1.1	103
16	HomeBank: An Online Repository of Daylong Child-Centered Audio Recordings. <i>Seminars in Speech and Language</i> , 2016, 37, 128-142.	0.5	103
17	Dâ€™Agents: Security in a Multiple-Language, Mobile-Agent System. <i>Lecture Notes in Computer Science</i> , 1998, , 154-187.	1.0	97
18	Data-centric middleware for context-aware pervasive computing. <i>Pervasive and Mobile Computing</i> , 2008, 4, 216-253.	2.1	94

#	ARTICLE	IF	CITATIONS
19	Mobile Agents for Distributed Information Retrieval. , 1999, , 355-395.		94
20	Opportunistic sensing: Security challenges for the new paradigm. , 2009, , .		83
21	Active behavioral fingerprinting of wireless devices. , 2008, , .		77
22	A privacy framework for mobile health and home-care systems. , 2009, , .		76
23	A wearable system that knows who wears it. , 2014, , .		76
24	ZEBRA: Zero-Effort Bilateral Recurring Authentication. , 2014, , .		72
25	Experimental Evaluation of Wireless Simulation Assumptions. Simulation, 2007, 83, 643-661.	1.1	70
26	Publication Bias and the Validity of Evidence. Psychological Science, 2015, 26, 944-946.	1.8	70
27	Periodic properties of user mobility and access-point popularity. Personal and Ubiquitous Computing, 2007, 11, 465-479.	1.9	66
28	On the reliability of wireless fingerprinting using clock skews. , 2010, , .		66
29	The competition model. , 0, , 307-314.		65
30	A threat taxonomy for mHealth privacy. , 2011, , .		64
31	The Galley parallel file system. Parallel Computing, 1997, 23, 447-476.	1.3	58
32	Activity-aware ECG-based patient authentication for remote health monitoring. , 2009, , .		58
33	AnonySense: Opportunistic and Privacy-Preserving Context Collection. Lecture Notes in Computer Science, 2008, , 280-297.	1.0	56
34	Which Components of a Smartphone Walking App Help Users to Reach Personalized Step Goals? Results From an Optimization Trial. Annals of Behavioral Medicine, 2020, 54, 518-528.	1.7	55
35	Investigating Intervention Components and Exploring States of Receptivity for a Smartphone App to Promote Physical Activity: Protocol of a Microrandomized Trial. JMIR Research Protocols, 2019, 8, e11540.	0.5	53
36	Practical prefetching techniques for multiprocessor file systems. Distributed and Parallel Databases, 1993, 1, 33-51.	1.0	51

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37	Fluency Bank: A new resource for fluency research and practice. <i>Journal of Fluency Disorders</i> , 2018, 56, 69-80.	0.7	49
38	A game-theoretic formulation of multi-agent resource allocation. , 2000, , .		47
39	Computational Markets to Regulate Mobile-Agent Systems. <i>Autonomous Agents and Multi-Agent Systems</i> , 2003, 6, 235-263.	1.3	47
40	Understanding sharing preferences and behavior for mHealth devices. , 2012, , .		46
41	Amulet. , 2016, , .		46
42	Security for mobile and cloud frontiers in healthcare. <i>Communications of the ACM</i> , 2015, 58, 21-23.	3.3	42
43	Exploring the State-of-Receptivity for mHealth Interventions. , 2019, 3, 1-27.		40
44	STEPâ€”A System for Teaching Experimental Psychology using E-Prime. <i>Behavior Research Methods</i> , 2001, 33, 287-296.	1.3	37
45	Your Laptop to the Rescue: Using the Child Language Data Exchange System Archive and CLAN Utilities to Improve Child Language Sample Analysis. <i>Seminars in Speech and Language</i> , 2016, 37, 074-084.	0.5	36
46	An amulet for trustworthy wearable mHealth. , 2012, , .		35
47	Localized Bridging Centrality for Distributed Network Analysis. , 2008, , .		34
48	Detecting Receptivity for mHealth Interventions in the Natural Environment. , 2021, 5, 1-24.		33
49	Standardizing Assessment of Spoken Discourse in Aphasia: A Working Group With Deliverables. <i>American Journal of Speech-Language Pathology</i> , 2021, 30, 491-502.	0.9	31
50	Wanda: Securely introducing mobile devices. , 2016, , .		30
51	Discourse recovery after severe traumatic brain injury: exploring the first year. <i>Brain Injury</i> , 2019, 33, 143-159.	0.6	30
52	Automatic Recognition, Segmentation, and Sex Assignment of Nocturnal Asthmatic Coughs and Cough Epochs in Smartphone Audio Recordings: Observational Field Study. <i>Journal of Medical Internet Research</i> , 2020, 22, e18082.	2.1	30
53	Secure context-sensitive authorization. <i>Pervasive and Mobile Computing</i> , 2005, 1, 123-156.	2.1	29
54	Welcome to functionalism. <i>Behavioral and Brain Sciences</i> , 1990, 13, 727-728.	0.4	28

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55	Empirical Validation of Wireless Models in Simulations of Ad Hoc Routing Protocols. Simulation, 2005, 81, 307-323.	1.1	28
56	Computational models of child language learning: an introduction. Journal of Child Language, 2010, 37, 477-485.	0.8	28
57	Translation ambiguity but not word class predicts translation performance. Bilingualism, 2013, 16, 458-474.	1.0	28
58	NoCloud: Exploring Network Disconnection through On-Device Data Analysis. IEEE Pervasive Computing, 2018, 17, 64-74.	1.1	27
59	Plug-n-trust. , 2012, , .		25
60	ActivityAware: An app for real-time daily activity level monitoring on the Amulet wrist-worn device. , 2017, 2017, .		24
61	Making Sense of Right Hemisphere Discourse Using RHDBank. Topics in Language Disorders, 2021, 41, 99-122.	0.9	24
62	Location Privacy for Mobile Crowd Sensing through Population Mapping. Sensors, 2015, 15, 15285-15310.	2.1	23
63	Toward a Wearable Sensor for Eating Detection. , 2017, , .		23
64	Vocal Resonance. , 2018, 2, 1-23.		23
65	Understanding spoken language through TalkBank. Behavior Research Methods, 2019, 51, 1919-1927.	2.3	23
66	Patterns of narrative discourse in early recovery following severe Traumatic Brain Injury. Brain Injury, 2020, 34, 98-109.	0.6	23
67	A Weight Loss Intervention Augmented by a Wearable Device in Rural Older Adults With Obesity: A Feasibility Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 95-100.	1.7	23
68	On Improving Wireless Broadcast Reliability of Sensor Networks Using Erasure Codes. Lecture Notes in Computer Science, 2006, , 155-170.	1.0	23
69	Editorial: Alzheimer's Dementia Recognition through Spontaneous Speech. Frontiers in Computer Science, 2021, 3, .	1.7	23
70	What we have learned. Journal of Child Language, 2014, 41, 124-131.	0.8	22
71	Mesh-Mon: A multi-radio mesh monitoring and management system. Computer Communications, 2008, 31, 1588-1601.	3.1	21
72	The Instructed Learning of Formâ€“Function Mappings in the English Article System. Modern Language Journal, 2018, 102, 99-119.	1.3	21

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73	Technology for Behavioral Change in Rural Older Adults with Obesity. <i>Journal of Nutrition in Gerontology and Geriatrics</i> , 2019, 38, 130-148.	0.4	21
74	Blockchain in Health Data Systems: A Survey. , 2019, , .		21
75	Challenges in Data Quality Assurance in Pervasive Health Monitoring Systems. , 2009, , 129-142.		19
76	Performance Analysis of Mobile Agents for Filtering Data Streams on Wireless Networks. <i>Mobile Networks and Applications</i> , 2002, 7, 163-174.	2.2	18
77	Procedural discourse performance in adults with severe traumatic brain injury at 3 and 6 months post injury. <i>Brain Injury</i> , 2018, 32, 167-181.	0.6	17
78	Armada: a parallel I/O framework for computational grids. <i>Future Generation Computer Systems</i> , 2002, 18, 501-523.	4.9	16
79	Chapter 14. A unified model of first and second language learning. <i>Trends in Language Acquisition Research</i> , 0, , 287-312.	0.2	16
80	Using Natural Language Processing and Sentiment Analysis to Augment Traditional User-Centered Design: Development and Usability Study. <i>JMIR MHealth and UHealth</i> , 2020, 8, e16862.	1.8	16
81	Transportable Information Agents. <i>Journal of Intelligent Information Systems</i> , 1997, 9, 215-238.	2.8	15
82	GeriActive: Wearable app for monitoring and encouraging physical activity among older adults. , 2018, 2018, 46-49.		15
83	BASTION-SGX. , 2018, , .		15
84	Adapt-lite. , 2011, , .		14
85	StressAware: An app for real-time stress monitoring on the amulet wearable platform. , 2016, , .		14
86	LightTouch: Securely connecting wearables to ambient displays with user intent. , 2017, , .		14
87	Provenance framework for mHealth. , 2013, , .		13
88	Evaluating voice-assistant commands for dementia detection. <i>Computer Speech and Language</i> , 2022, 72, 101297.	2.9	13
89	Improving Automatic IPSyn Coding. <i>Language, Speech, and Hearing Services in Schools</i> , 2020, 51, 1187-1189.	0.7	13
90	Experience. , 2019, 2019, .		13

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91	MPCS: Mobile-phone based patient compliance system for chronic illness care. , 2009, , .		12
92	Investigating contextual cues as indicators for EMA delivery. , 2017, 2017, 935-940.		12
93	Automation of the Northwestern Narrative Language Analysis System. Journal of Speech, Language, and Hearing Research, 2020, 63, 1835-1844.	0.7	12
94	Workshop on Emerging Technology and Data Analytics for Behavioral Health. JMIR Research Protocols, 2018, 7, e158.	0.5	12
95	The Hebrew CHILDES corpus: transcription and morphological analysis. Language Resources and Evaluation, 2013, 47, 973-1005.	1.8	11
96	Challenges facing COS development for aphasia. Aphasiology, 2014, 28, 1393-1395.	1.4	11
97	Hide-n-Sense: Preserving Privacy Efficiently in Wireless mHealth. Mobile Networks and Applications, 2014, 19, 331-344.	2.2	11
98	Transportable agents support worldwide applications. , 1996, , .		10
99	ENACT. , 2017, , .		10
100	Enhancing the classification of aphasia: a statistical analysis using connected speech. Aphasiology, 2022, 36, 1492-1519.	1.4	10
101	Coordinated Sampling to Improve the Efficiency of Wireless Network Monitoring. Networks, 2008 ICON 2008 16th IEEE International Conference on, 2007, , .	0.0	9
102	DEAMON: Energy-efficient Sensor Monitoring. , 2009, , .		9
103	Privacy analysis of user association logs in a large-scale wireless LAN. , 2011, , .		9
104	Conversational topics discussed by individuals with severe traumatic brain injury and their communication partners during sub-acute recovery. Brain Injury, 2016, 30, 1329-1342.	0.6	9
105	Fostering human rights through TalkBank. International Journal of Speech-Language Pathology, 2018, 20, 115-119.	0.6	9
106	Is Putting SUGAR (Sampling Utterances of Grammatical Analysis Revised) Into Language Sample Analysis a Good Thing? A Response to Pavelko and Owens (2017). Language, Speech, and Hearing Services in Schools, 2018, 49, 622-627.	0.7	9
107	Question Use in Adults With Right-Hemisphere Brain Damage. Journal of Speech, Language, and Hearing Research, 2020, 63, 738-748.	0.7	9
108	Is Collaborative Open Science Possible With Speech Data in Psychiatric Disorders?. Schizophrenia Bulletin, 2022, 48, 963-966.	2.3	9

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109	Social network analysis plugin (SNAP) for mesh networks. , 2011, , .		8
110	SAW. , 2018, 2, 1-29.		8
111	Securely Connecting Wearables to Ambient Displays with User Intent. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 676-690.	3.7	8
112	A Comparison of Manual Versus Automated Quantitative Production Analysis of Connected Speech. Journal of Speech, Language, and Hearing Research, 2021, 64, 1271-1282.	0.7	8
113	Communicative Strengths in Severe Aphasia: The Famous People Protocol and Its Value in Planning Treatment. American Journal of Speech-Language Pathology, 2019, 28, 1010-1018.	0.9	8
114	Workshop on the Development and Evaluation of Digital Therapeutics for Health Behavior Change: Science, Methods, and Projects. JMIR Mental Health, 2020, 7, e16751.	1.7	8
115	The Effects of Right Hemisphere Brain Damage on Question-Asking in Conversation. Journal of Speech, Language, and Hearing Research, 2022, 65, 727-737.	0.7	8
116	Improving Data Access for Computational Grid Applications. Cluster Computing, 2006, 9, 79-99.	3.5	7
117	From MAP to DIST: The Evolution of a Large-Scale WLAN Monitoring System. IEEE Transactions on Mobile Computing, 2014, 13, 216-229.	3.9	7
118	An ultra-low resource wearable EDA sensor using wavelet compression. , 2018, , .		7
119	Using AphasiaBank for Discourse Assessment. Seminars in Speech and Language, 2020, 41, 010-019.	0.5	7
120	Scalability in a Secure Distributed Proof System. Lecture Notes in Computer Science, 2006, , 220-237.	1.0	7
121	Data Citation Practices in the CRAWDAD Wireless Network Data Archive. D-Lib Magazine, 2015, 21, .	0.5	7
122	The Index of Productive Syntax: Psychometric Properties and Suggested Modifications. American Journal of Speech-Language Pathology, 2022, 31, 239-256.	0.9	7
123	Detecting the Presence of Electronic Devices in Smart Homes Using Harmonic Radar Technology. Remote Sensing, 2022, 14, 327.	1.8	7
124	Experimental validation of analytical performance models for IEEE 802.11 networks. , 2010, , .		6
125	Securing Information Technology in Healthcare. IEEE Security and Privacy, 2013, 11, 25-33.	1.5	6
126	Compositional production in Spanish second language conjugation. Bilingualism, 2013, 16, 808-828.	1.0	6



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127	The internet programming contest. SIGCSE Bulletin, 1993, 25, 48-52.	0.1	6
128	Refocusing in 802.11 Wireless Measurement. , 2008, , 142-151.		6
129	The Feasibility and Utility of Harnessing Digital Health to Understand Clinical Trajectories in Medication Treatment for Opioid Use Disorder: D-TECT Study Design and Methodological Considerations. Frontiers in Psychiatry, 2022, 13, 871916.	1.3	6
130	Emergence from what? Comments on Sabbagh & Gelman. Journal of Child Language, 2000, 27, 727-733.	0.8	5
131	Parameters or cues?. Bilingualism, 2004, 7, 35-36.	1.0	5
132	Semantic competitor priming within and across languages: The interplay of vocabulary knowledge, learning experience and working memory capacity. Bilingualism, 2011, 14, 433-443.	1.0	5
133	Amulet. , 2014, , .		5
134	Neuroemergentism: Levels and constraints. Journal of Neurolinguistics, 2019, 49, 232-234.	0.5	5
135	Patterns of early conversational recovery for people with traumatic brain injury and their communication partners. Brain Injury, 2019, 33, 690-698.	0.6	5
136	A data-parallel programming library for education (DAPPLE). , 1995, , .		4
137	Measuring Wireless LANs. , 2006, , 5-27.		4
138	Assessing blood-pressure measurement in tablet-based mHealth apps. , 2014, , .		4
139	Child Language Data Exchange System Tools for Clinical Analysis. Seminars in Speech and Language, 2016, 37, 063-073.	0.5	4
140	Toward Accurate and Efficient Feature Selection for Speaker Recognition on Wearables. , 2017, , .		4
141	Challenges to ensuring human safety throughout the life-cycle of Smart Environments. , 2017, , .		4
142	Amulet: an open-source wrist-worn platform for mHealth research and education. , 2019, , .		4
143	The expected lifetime of "single-address-space" operating systems. Performance Evaluation Review, 1994, 22, 161-170.	0.4	3
144	Short paper. , 2011, , .		3

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145	Relationships between receptive vocabulary in English and Cantonese proficiency among five-year-old Hong Kong Kindergarten children. <i>Early Child Development and Care</i> , 2013, 183, 1407-1419.	0.7	3
146	Use of Amulet in behavioral change for geriatric obesity management. <i>Digital Health</i> , 2019, 5, 205520761985856.	0.9	3
147	Flexibility and performance of parallel file systems. <i>Operating Systems Review (ACM)</i> , 1996, 30, 63-73.	1.5	3
148	Utilising a systematic review-based approach to create a database of individual participant data for meta- and network meta-analyses: the RELEASE database of aphasia after stroke. <i>Aphasiology</i> , 2022, 36, 513-533.	1.4	3
149	A data-parallel programming library for education (DAPPLE). <i>SIGCSE Bulletin</i> , 1995, 27, 76-81.	0.1	2
150	Language is learned. <i>Behavioral and Brain Sciences</i> , 1996, 19, 735-736.	0.4	2
151	Integrating teaching practice with developmental norms: the case of phonological teaching in L2. <i>International Journal of Early Years Education</i> , 2009, 17, 17-31.	0.4	2
152	A correlation attack against user mobility privacy in a large-scale WLAN network. , 2010, , .		2
153	A provenance framework for mHealth. , 2012, , .		2
154	Parsing Hebrew CHILDES transcripts. <i>Language Resources and Evaluation</i> , 2015, 49, 107-145.	1.8	2
155	AuthoRing. , 2017, , .		2
156	SPICE. , 2017, , .		2
157	Large-scale file systems with the flexibility of databases. <i>ACM Computing Surveys</i> , 1996, 28, 207.	16.1	2
158	Secure Information Transfer Between Nearby Wireless Devices. , 2017, , .		2
159	Streaming Estimation of Information-Theoretic Metrics for Anomaly Detection (Extended Abstract). <i>Lecture Notes in Computer Science</i> , 2008, , 412-414.	1.0	2
160	Dynamic Norming and Open Science. <i>Journal of Speech, Language, and Hearing Research</i> , 2022, 65, 1183-1185.	0.7	2
161	A Smartwatch Step-Counting App for Older Adults: Development and Evaluation Study. <i>JMIR Aging</i> , 2022, 5, e33845.	1.4	2
162	Event dissemination via group-aware stream filtering. , 2008, , .		1

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163	Group-aware stream filtering for bandwidth-efficient data dissemination. International Journal of Parallel, Emergent and Distributed Systems, 2008, 23, 429-446.	0.7	1
164	Effects of network trace sampling methods on privacy and utility metrics. , 2012, , .		1
165	The Amulet Wearable Platform. , 2016, , .		1
166	The future of DLL. Bilingualism, 0, , 1-2.	1.0	1
167	Editorial: Emergentist Approaches to Language. Frontiers in Psychology, 2021, 12, 833160.	1.1	1
168	Title is missing!. Journal of Child Language, 1983, 10, 667-672.	0.8	0
169	A Dataâ€Parallel Programming Library for Education (DAPPLE). Computer Science Education, 1995, 6, 141-159.	2.7	0
170	Special Issue on Parallel I / O Systems. Performance Evaluation Review, 1997, 25, 2.	0.4	0
171	How perspective shift integrates thought. Behavioral and Brain Sciences, 2002, 25, 691-692.	0.4	0
172	Group-aware Stream Filtering. , 2007, , .		0
173	Towards collaborative data reduction in stream-processing systems. International Journal of Communication Networks and Distributed Systems, 2009, 2, 375.	0.3	0
174	Localized Bridging Centrality. Springer Optimization and Its Applications, 2012, , 197-218.	0.6	0
175	Flexibility and performance of parallel file systems. Lecture Notes in Computer Science, 1996, , 1-11.	1.0	0