David Williamson Shaffer

List of Publications by Year
in descending order

62 papers	5,939 citations	257101 24 h-index	138251 58 g-index
66 all docs	66 docs citations	66 times ranked	3999 citing authors

#	Article	IF	Citations
1	What Good are Statistics that Don't Generalize?. Educational Researcher, 2004, 33, 14-25.	3.3	2,043
2	Video Games and the Future of Learning. Phi Delta Kappan, 2005, 87, 105-111.	0.4	541
3	How Computer Games Help Children Learn. , 2006, , .		534
4	A Tutorial on Epistemic Network Analysis: Analyzing the Structure of Connections in Cognitive, Social, and Interaction Data. Journal of Learning Analytics, 2016, 3, 9-45.	1.8	320
5	Epistemic frames for epistemic games. Computers and Education, 2006, 46, 223-234.	5.1	295
6	"Practicing" Medicine without Risk. Academic Medicine, 2001, 76, 469-472.	0.8	281
7	Epistemic Network Analysis: A Prototype for 21st-Century Assessment of Learning. International Journal of Learning and Media, 2009, 1, 33-53.	0.4	207
8	Why Theory Matters More than Ever in the Age of Big Data. Journal of Learning Analytics, 2015, 2, 5-13.	1.8	151
9	SENS: Network analytics to combine social and cognitive perspectives of collaborative learning. Computers in Human Behavior, 2019, 92, 562-577.	5.1	115
10	Designing a computer-based simulator for interventional cardiology training. Catheterization and Cardiovascular Interventions, 2000, 51, 522-527.	0.7	111
11	When coding-and-counting is not enough: using epistemic network analysis (ENA) to analyze verbal data in CSCL research. International Journal of Computer-Supported Collaborative Learning, 2018, 13, 419-438.	1.9	105
12	Epistemic Network Analysis: A Worked Example of Theory-Based Learning Analytics. , 2017, , 175-187.		88
13	In Search of Conversational Grain Size: Modeling Semantic Structure using Moving Stanza Windows. Journal of Learning Analytics, 2017, 4, .	1.8	75
14	A Randomized Controlled Trial of Simulation-Based Teaching versus Traditional Instruction in Medicine: A Pilot Study among Clinical Medical Students. Advances in Health Sciences Education, 2006, 11, 33-39.	1.7	73
15	Pedagogical Praxis: The Professions as Models for Postindustrial Education. Teachers College Record, 2004, 106, 1401-1421.	0.4	67
16	Toolforthoughts: Reexamining Thinking in the Digital Age. Mind, Culture, and Activity, 2006, 13, 283-300.	1.1	64
17	Title is missing!. Educational Studies in Mathematics, 1998, 37, 97-119.	1.8	56
18	Assessment of a Clinical Performance Evaluation Tool for Use in a Simulator-Based Testing Environment: A Pilot Study. Academic Medicine, 2003, 78, S45-S47.	0.8	55

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19	Assessing individual contributions to Collaborative Problem Solving: A network analysis approach. Computers in Human Behavior, 2020, 104, 105876.	5.1	55
20	A Novel Paradigm for Engineering Education: Virtual Internships With Individualized Mentoring and Assessment of Engineering Thinking. Journal of Biomechanical Engineering, 2015, 137, 024701.	0.6	48
21	Collaborative or Simply Uncaged? Understanding Human-Cobot Interactions in Automation. , 2020, , .		39
22	Augmented by Reality: The Pedagogical Praxis of Urban Planning as a Pathway to Ecological Thinking. Journal of Educational Computing Research, 2005, 33, 31-52.	3.6	38
23	Quantifying the qualitative with epistemic network analysis: A human factors case study of task-allocation communication in a primary care team. IISE Transactions on Healthcare Systems Engineering, 2018, 8, 72-82.	1.2	38
24	Mentor modeling: the internalization of modeled professional thinking in an epistemic game. Journal of Computer Assisted Learning, 2011, 27, 173-189.	3.3	37
25	Learning mathematics through design: The anatomy of Escher's world. Journal of Mathematical Behavior, 1997, 16, 95-112.	0.5	34
26	Using epistemic network analysis to identify targets for educational interventions in trauma team communication. Surgery, 2018, 163, 938-943.	1.0	34
27	Epistemic trajectories: mentoring in a game design practicum. Instructional Science, 2013, 41, 745-771.	1.1	30
28	The Mathematical Foundations of Epistemic Network Analysis. Communications in Computer and Information Science, 2021, , 91-105.	0.4	27
29	nCoder+: A Semantic Tool for Improving Recall of nCoder Coding. Communications in Computer and Information Science, 2019, , 41-54.	0.4	25
30	EPISTEMIC PERSISTENCE: A SIMULATION-BASED APPROACH TO INCREASING PARTICIPATION OF WOMEN IN ENGINEERING. Journal of Women and Minorities in Science and Engineering, 2014, 20, 211-234.	0.5	25
31	Models of Situated Action. , 2012, , 403-432.		24
32	The hands and head of a surgeon: Modeling operative competency with multimodal epistemic network analysis. American Journal of Surgery, 2018, 216, 835-840.	0.9	24
33	How We Code. Communications in Computer and Information Science, 2021, , 62-77.	0.4	24
34	SodaConstructing knowledge through exploratoids. Journal of Research in Science Teaching, 2007, 44, 133-153.	2.0	22
35	A network analytic approach to gaze coordination during a collaborative task. Computers in Human Behavior, 2018, 89, 339-348.	5.1	22
36	Supporting teachers' intervention in students' virtual collaboration using a network based model. , 2018, , .		19

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37	iSENS. , 2020, , .		16
38	Evaluating how residents talk and what it means for surgical performance in the simulation lab. American Journal of Surgery, 2020, 220, 37-43.	0.9	13
39	Learning, Testing, and the Evaluation of Learning Environments in Medicine: Global Performance Assessment in Medical Education. Interactive Learning Environments, 2004, 12, 167-178.	4.4	12
40	The Math Studio: Harnessing the Power of the Arts to Teach across Disciplines. Journal of Aesthetic Education, 1999, 33, 99.	0.1	11
41	Diagnostic Activities and Diagnostic Practices in Medical Education and Teacher Education: An Interdisciplinary Comparison. Frontiers in Psychology, 2020, 11, 562665.	1.1	11
42	Trajectories in Epistemic Network Analysis. Communications in Computer and Information Science, 2021, , 106-121.	0.4	11
43	Stop talking and type: comparing virtual and face‐to‐face mentoring in an epistemic game. Journal of Computer Assisted Learning, 2015, 31, 606-622.	3.3	10
44	Why saying what you mean matters: An analysis of trauma team communication. American Journal of Surgery, 2018, 215, 250-254.	0.9	10
45	Stirring a Secret Sauce: A Literature Review on the Conditions and Effects of Authentic Learning. Educational Psychology Review, 2022, 34, 1479-1516.	5.1	10
46	Understanding when students are active‐in‐thinking through modeling‐in‐context. British Journal of Educational Technology, 2019, 50, 2346-2364.	3.9	8
47	Team Cognition in Handoffs: Relating System Factors, Team Cognition Functions and Outcomes in Two Handoff Processes. Human Factors, 2024, 66, 271-293.	2.1	8
48	Simplification of Epistemic Networks Using Parsimonious Removal with Interpretive Alignment. Communications in Computer and Information Science, 2021, , 137-151.	0.4	6
49	Incorporating Sentiment Analysis with Epistemic Network Analysis to Enhance Discourse Analysis of Twitter Data. Communications in Computer and Information Science, 2021, , 375-389.	0.4	6
50	Teaching health care workers to adopt a systems perspective for improved control and prevention of health care–associated infections. American Journal of Infection Control, 2016, 44, 1360-1364.	1.1	5
51	Teaching practicing surgeons what not to do: An analysis of instruction fluidity during a simulation-based continuing medical education course. Surgery, 2019, 165, 1082-1087.	1.0	5
52	Learning Analytics for a New Epistemological Perspective of Learning. Noson Keikaku Gakkai Ronbunshu, 2021, 1, Inv-p003-Inv-p003.	0.1	5
53	Directed Epistemic Network Analysis. Communications in Computer and Information Science, 2021, , 122-136.	0.4	5
54	Cause and Because: Using Epistemic Network Analysis to Model Causality in the Next Generation Science Standards. Communications in Computer and Information Science, 2019, , 223-233.	0.4	5

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55	Quantifying the qualitative: exploring epistemic network analysis as a method to study work system interactions. Ergonomics, 2022, 65, 1434-1449.	1.1	5
56	Pedagogical praxis. ACM SIGGROUP Bulletin, 2003, 24, 39-43.	0.4	3
57	Safety First: Developing a Model of Expertise in Collaborative Robotics. Communications in Computer and Information Science, 2021, , 304-318.	0.4	2
58	Designing an Interface for Sharing Quantitative Ethnographic Research Data. Communications in Computer and Information Science, 2019, , 334-341.	0.4	2
59	Annals and Analytics: The Practice of History in the Age of Big Data. Medical History, 2017, 61, 336-339.	0.1	1
60	Dataâ€enabled cognitive modeling: Validating student engineersâ€™ fuzzy designâ€based decisionâ€making in a virtual design problem. Computer Applications in Engineering Education, 2017, 25, 1001-1017.	2.2	1
61	Operationalizing Identity â€" Studying Changing Selves in Experimental Learning Environments: A Commentary to the Special Issue. Journal of Experimental Education, 2021, 89, 560-567.	1.6	1
62	Epistemic Network Analysis Visualization. Communications in Computer and Information Science, 2022, , 129-143.	0.4	1