Brett A Becker

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7873307/publications.pdf

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70	1,842	1306789 7	1372195 10
papers	citations	h-index	g-index

72	72	72	556
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Robots Are Coming: Exploring the Implications of OpenAI Codex on Introductory Programming. , 2022, , .		95
2	Sympathy for the (Novice) Developer. , 2022, , .		7
3	Metacognition and Self-Regulation in Programming Education: Theories and Exemplars of Use. ACM Transactions on Computing Education, 2022, 22, 1-31.	2.9	30
4	CSLINC a Nationwide CS MOOC for Second-level Students. , 2022, , .		2
5	From the Horse's Mouth: The Words We Use to Teach Diverse Student Groups Across Three Continents. , 2022, , .		2
6	How Creatively Are We Teaching and Assessing Creativity in Computing Education. , 2022, , .		5
7	Novice Reflections During the Transition to a New Programming Language. , 2022, , .		5
8	What Fails Once, Fails Again. , 2022, , .		5
9	Experiences Implementing and Utilizing a Notional Machine in the Classroom. , 2022, , .		2
10	ITiCSE 2022 call for participation. SIGCSE Bulletin, 2022, 54, 5-6.	0.1	0
11	A Simple, Language-Independent Approach to Identifying Potentially At-Risk Introductory Programming Students. , 2021, , .		5
12	Towards Assessing the Readability of Programming Error Messages. , 2021, , .		3
13	Expanding Opportunities: Assessing and Addressing Geographic Diversity at the SIGCSE Technical Symposium. , 2021, , .		13
14	Investigating the Impact of the COVID-19 Pandemic on Computing Students' Sense of Belonging. , 2021, , .		23
15	Current Challenges and Future Opportunities for XAI in Machine Learning-Based Clinical Decision Support Systems: A Systematic Review. Applied Sciences (Switzerland), 2021, 11, 5088.	1.3	183
16	On Designing Programming Error Messages for Novices: Readability and its Constituent Factors. , 2021, , .		26
17	Comparing Programming Self-Esteem of Upper Secondary School Teachers to CS1 Students. , 2021, , .		8
18	Investigating the impact of the COVID-19 pandemic on computing students' sense of belonging. ACM Inroads, 2021, 12, 38-45.	0.4	17

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19	Developing an Open-Book Online Exam for Final Year Students. , 2021, , .		3
20	What does saying that 'programming is hard' really say, and about whom?. Communications of the ACM, 2021, 64, 27-29.	3.3	23
21	A Frame of Mind: Frame-based vs. Text-based Editing. , 2021, , .		2
22	The Roles and Challenges of Computing Terminology in Non-Computing Disciplines. , 2021, , .		4
23	Portraits of Programmer Behavior in a Frame-Based Language. , 2021, , .		1
24	The Effects of Compilation Mechanisms and Error Message Presentation on Novice Programmer Behavior. , 2020, , .		16
25	Improving Global Participation in the SIGCSE Technical Symposium. , 2020, , .		10
26	ProgSnap2: A Flexible Format for Programming Process Data. , 2020, , .		17
27	Error Message Readability and Novice Debugging Performance. , 2020, , .		26
28	Soft Skills: What do Computing Program Syllabi Reveal About Non-Technical Expectations of Undergraduate Students?. , 2020, , .		15
29	Engage Against the Machine: Rise of the Notional Machines as Effective Pedagogical Devices. , 2020, , .		12
30	What Do We Think We Think We Are Doing?. , 2020, , .		55
31	Compile Much? A Closer Look at the Programming Behavior of Novices in Different Compilation and Error Message Presentation Contexts. , 2020, , .		4
32	Sense of Belonging: The Intersectionality of Self-Identified Minority Status and Gender in Undergraduate Computer Science Students. , 2020, , .		26
33	Compiler Error Messages. , 2020, , .		2
34	Developing an Inclusive K-12 Outreach Model. , 2020, , .		2
35	High Performance Computing Education. , 2020, , .		7
36	CompEd. SIGCSE Bulletin, 2020, 52, 4-4.	0.1	0

#	Article	IF	Citations
37	Recent Advances in Matrix Partitioning for Parallel Computing on Heterogeneous Platforms. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 218-229.	4.0	17
38	Inferential Statistics in Computing Education Research. , 2019, , .		26
39	A Survey of Introductory Programming Courses in Ireland. , 2019, , .		10
40	Unexpected Tokens. , 2019, , .		10
41	Research This! Questions that Computing Educators Most Want Computing Education Researchers to Answer. , 2019, , .		31
42	Improving Borderline Adulthood Facial Age Estimation through Ensemble Learning. , 2019, , .		8
43	Perspectives on Global Bachelor Computing Education. , 2019, , .		1
44	BEST PAPER AT SIGCSE 2019 IN THE CS EDUCATION TRACK: First things first: providing metacognitive scaffolding for interpreting problem prompts. ACM Inroads, 2019, 10, 42-49.	0.4	1
45	What Do CS1 Syllabi Reveal About Our Expectations of Introductory Programming Students?. , 2019, , .		24
46	First Things First. , 2019, , .		69
47	50 Years of CS1 at SIGCSE. , 2019, , .		50
48	Visual Portrayals of Data and Results at ITiCSE. , 2019, , .		10
49	Fifteen Years of Introductory Programming in Schools. , 2019, , .		25
50	A Closer Look at Metacognitive Scaffolding. , 2019, , .		28
51	Compiler Error Messages Considered Unhelpful. , 2019, , .		103
52	CSinc. , 2019, , .		3
53	Achievement Goals in CS1. , 2018, , .		31
54	The Effects of Enhanced Compiler Error Messages on a Syntax Error Debugging Test. , 2018, , .		45

#	Article	IF	Citations
55	Developing Assessments to Determine Mastery of Programming Fundamentals. , 2018, , .		42
56	Fix the First, Ignore the Rest. , 2018, , .		37
57	Computer science identity and sense of belonging. , 2018, , .		17
58	Second Level Computer Science. , 2018, , .		11
59	Introductory programming: a systematic literature review. , 2018, , .		259
60	How statistics are used in computing education research. , 2018, , .		0
61	A review of introductory programming research 2003â€“2017. , 2018, , .		9
62	Developing Assessments to Determine Mastery of Programming Fundamentals. , 2017, , .		13
63	Novice Programmers and the Problem Description Effect. , 2016, , .		28
64	A New Metric to Quantify Repeated Compiler Errors for Novice Programmers. , 2016, , .		53
65	An Effective Approach to Enhancing Compiler Error Messages. , 2016, , .		80
66	Effective compiler error message enhancement for novice programming students. Computer Science Education, 2016, 26, 148-175.	2.7	61
67	EpimiRBase: a comprehensive database of microRNA-epilepsy associations. Bioinformatics, 2016, 32, 1436-1438.	1.8	48
68	Partitioning for Parallel Matrix-Matrix Multiplication with Heterogeneous Processors: The Optimal Solution. , 2012, , .		9
69	Towards Data Partitioning for Parallel Computing on Three Interconnected Clusters. , 2007, , .		11
70	Matrix Multiplication on Two Interconnected Processors. , 2006, , .		8