William G Griswold

List of Publications by Year
in descending order

52 papers	1,608 citations	840776 11 h-index	996975 15 g-index
54 all docs	54 docs citations	54 times ranked	2345 citing authors

#	Article	IF	Citations
1	A Demographic Analysis on Prerequisite Preparation in an Advanced Data Structures Course. , 2022, , .		0
2	A demographic analysis on prerequisite preparation in an advanced data structures course. ACM Inroads, 2022, 13, 34-41.	0.6	1
3	Trends and Challenges for Software Engineering in the Mobile Domain. IEEE Software, 2021, 38, 88-96.	1.8	14
4	A Quantitative Analysis of Study Habits Among Lower- and Higher-Performing Students in CS1. , 2021, , .		10
5	Proficiency in Basic Data Structures among Various Subpopulations of Students at Different Stages in a CS Program. , 2021, , .		1
6	Understanding Sources of Student Struggle in Early Computer Science Courses. , 2021, , .		25
7	The Relationship Between Sense of Belonging and Student Outcomes in CS1 and Beyond. , 2021, , .		30
8	Faculty Views on the Goals of an Undergraduate CS Education and the Academia-Industry Gap. , 2020, , .		10
9	Exploring the Link Between Prerequisites and Performance in Advanced Data Structures. , 2020, , .		11
10	A Quantitative Study of Faculty Views on the Goals of an Undergraduate CS Program and Preparing Students for Industry. , 2020, , .		7
11	Using DevContainers to Standardize Student Development Environments: An Experience Report. , 2020, , .		3
12	Behaviors of Higher and Lower Performing Students in CS1. , 2019, , .		31
13	Evaluating and improving the reliability of gas-phase sensor system calibrations across new locations for ambient measurements and personal exposure monitoring. Atmospheric Measurement Techniques, 2019, 12, 4211-4239.	3.1	21
14	Text messaging and brief phone calls for weight loss in overweight and obese English- and Spanish-speaking adults: A 1-year, parallel-group, randomized controlled trial. PLoS Medicine, 2019, 16, e1002917.	8.4	32
15	A Robust Machine Learning Technique to Predict Low-performing Students. ACM Transactions on Computing Education, 2019, 19, 1-19.	3.5	60
16	The Relationship between Prerequisite Proficiency and Student Performance in an Upper-Division Computing Course. , 2019, , .		17
17	Exploring the Value of Different Data Sources for Predicting Student Performance in Multiple CS Courses. , 2019, , .		16
18	Personal pollution monitoring: mobile real-time air quality in daily life. Personal and Ubiquitous Computing, 2019, 23, 309-328.	2.8	30

#	Article	IF	Citations
19	ANEL. , 2018, , .		1
20	Classroom experience report on jigsaw learning. , 2018, , .		7
21	Workload Shaping Energy Optimizations with Predictable Performance for Mobile Sensing. , 2018, , .		2
22	Inferring Loop Invariants through Gamification. , 2018, , .		9
23	Impact of Class Size on Student Evaluations for Traditional and Peer Instruction Classrooms. , 2017, , .		9
24	Big Data Techniques for Public Health: A Case Study. , 2017, , .		9
25	Semantics-assisted code review: An efficient tool chain and a user study. , 2017, , .		2
26	Low-Cost Air Quality Monitoring Tools: From Research to Practice (A Workshop Summary). Sensors, 2017, 17, 2478.	3.8	144
27	Lightweight, Early Identification of At-Risk CS1 Students. , 2016, , .		71
28	Influences of architectural and implementation choices on CyberInfrastructure qualityâ€"a case study. , 2016, , 279-332.		1
29	Managing the Energy-Delay Tradeoff in Mobile Applications with Tempus. , 2015, , .		8
30	Clinical trial management of participant recruitment, enrollment, engagement, and retention in the SMART study using a Marketing and Information Technology (MARKIT) model. Contemporary Clinical Trials, 2015, 42, 185-195.	1.8	56
31	APE: an annotation language and middleware for energy-efficient mobile application development. , 2014, , .		32
32	Mining Software Contracts for Software Evolution. , 2014, , .		4
33	DELPHI: Data E-platform for personalized population health. , 2013, , .		2
34	CitiSense. , 2012, , .		59
35	Citisense. , 2012, , .		7
36	Citisense: Mobile Air Quality Sensing for Individuals and Communities. Design and deployment of the Citisense mobile air-quality system.. , 2012, , .		33

#	Article	IF	Citations
37	Projector phone use: practices and social implications. Personal and Ubiquitous Computing, 2012, 16, 53-63.	2.8	12
38	Interpersonal informatics. , 2011, , .		6
39	Report from the Second Pervasive Computing Education Workshop. IEEE Pervasive Computing, 2010, 9, 45-46.	1.3	0
40	A Text Messageâ€“Based Intervention for Weight Loss: Randomized Controlled Trial. Journal of Medical Internet Research, 2009, 11, e1.	4.3	557
41	RiverInk--An Extensible Framework for Multimodal Interoperable Ink. , 2007, , .		2
42	Usability and Feasibility of PmEB: A Mobile Phone Application for Monitoring Real Time Caloric Balance. Mobile Networks and Applications, 2007, 12, 173-184.	3.3	196
43	A Robust Abstraction for First-Person Video Streaming: Techniques, Applications, and Experiments. , 2006, , .		0
44	Guest Editors' Introduction to the Special Section on the International Conference on Software Engineering. IEEE Transactions on Software Engineering, 2006, 32, 929-930.	5.6	0
45	Effective pattern matching of source code using abstract syntax patterns. Software - Practice and Experience, 2006, 36, 413-447.	3.6	6
46	Usability and Feasibility of PmEB: A Mobile Phone Application for Monitoring Real Time Caloric Balance. , 2006, , .		10
47	A systems architecture for ubiquitous video. , 2005, , .		16
48	How Software Engineering Tools Organize Programmer Behavior During the Task of Data Encapsulation. Empirical Software Engineering, 1997, 2, 221-267.	3.9	15
49	Tool support for planning the restructuring of data abstractions in large systems. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 1996, 21, 33-45.	0.7	3
50	Programming language requirements for the next millennium. ACM Computing Surveys, 1996, 28, 194.	23.0	0
51	Automated support for encapsulating abstract data types. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 1994, 19, 97-110.	0.7	1
52	The design and implementation of dynamic hashing for sets and tables in icon. Software - Practice and Experience, 1993, 23, 351-367.	3.6	7