Daniel P Siewiorek

List of Publications by Year
in descending order

71	2,906	331259	243296
papers	citations	21 h-index	44 g-index

72	72	72	1908
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Efficacy of a Multicomponent Functional Fitness Program Based on Exergaming on Cognitive Functioning of Healthy Older Adults: A Randomized Controlled Trial. Journal of Aging and Physical Activity, 2021, 29, 586-594.	0.5	11
2	Interactive hybrid approach to combine machine and human intelligence for personalized rehabilitation assessment. , 2020, , .		14
3	Learning to assess the quality of stroke rehabilitation exercises. , 2019, , .		35
4	Ecological Momentary Assessment in Behavioral Research: Addressing Technological and Human Participant Challenges. Journal of Medical Internet Research, 2017, 19, e77.	2.1	185
5	Using physiological sensors to detect levels of user frustration induced by system delays. , 2015, , .		15
6	iPod-based in-home system for monitoring gaze-stabilization exercise compliance of individuals with vestibular hypofunction. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 69.	2.4	15
7	Automated Filtering of Common-Mode Artifacts in Multichannel Physiological Recordings. IEEE Transactions on Biomedical Engineering, 2013, 60, 2760-2770.	2.5	9
8	2nd workshop on open resilient human-aware cyber-physical systems. , 2013, , .		0
9	Emotion Recognition Modulating the Behavior of Intelligent Systems. , 2013, , .		3
10	Invited talk: Virtual coaches in health care. , 2012, , .		2
11	Workshop on open resilient human-aware Cyber-physical systems. , 2012, , .		0
12	Architecture and Applications of Virtual Coaches. Proceedings of the IEEE, 2012, 100, 2472-2488.	16.4	17
13	A Survey of Feedback Modalities for Wheelchair Power Seat Functions. IEEE Pervasive Computing, 2012, 11, 54-62.	1.1	4
14	Sparse linear regression with elastic net regularization for brain-computer interfaces. , 2012, 2012, 4275-8.		8
15	Fully Automated Reduction of Ocular Artifacts in High-Dimensional Neural Data. IEEE Transactions on Biomedical Engineering, 2011, 58, 598-606.	2.5	40
16	The Book Computer Structures: Thoughts After 40 Years. IEEE Annals of the History of Computing, 2011, 33, 89-95.	0.2	1
17	Understanding how visual representations of location feeds affect end-user privacy concerns. , 2011, , .		14
18	Frequency tracking and variable bandwidth for line noise filtering without a reference. , 2011, 2011, 7908-11.		5

#	Article	IF	Citations
19	Rethinking location sharing. , 2010, , .		102
20	Lessons learned designing multi-modal Ecological Momentary Assessment tools. Technology and Disability, 2010, 22, 41-51.	0.3	2
21	Agent-assisted task management that reduces email overload. , 2010, , .		32
22	Mission reliability analysis of fault-tolerant multiple-phased systems. Reliability Engineering and System Safety, 2008, 93, 1036-1046.	5.1	20
23	Activity-Based Computing. IEEE Pervasive Computing, 2008, 7, 20-21.	1.1	50
24	Wearable context-aware food recognition for calorie monitoring. , 2008, , .		42
25	Towards a Virtual Coach for manual wheelchair users. , 2008, , .		16
26	Special session in honor of randy pausch. , 2008, , .		0
27	Selective Sampling Strategies to Conserve Power in Context Aware Devices. , 2007, , .		13
28	KLEM: A Method for Predicting User Interaction Time and System Energy Consumption during Application Design. , 2007, , .		7
29	Learning an Orchestra Conductor's Technique Using a Wearable Sensor Platform. , 2007, , .		2
30	Rapid Prototyping Course on Mobile Computer Systems. , 2007, , .		0
31	Towards an Interactive Assessment Framework for Engineering Design Learning. , 2007, , .		3
32	A Computer System for Accessing Ambient Display and Computing Resources in Wearable Environments. Proceedings International Symposium on Wearable Computers, 2006, , .	0.0	0
33	Supporting collaborative learning in engineering design. Expert Systems With Applications, 2006, 31, 734-741.	4.4	19
34	Location and Activity Recognition Using eWatch: A Wearable Sensor Platform. Lecture Notes in Computer Science, 2006, , 86-102.	1.0	68
35	Reflections on industry trends and experimental research in dependability. IEEE Transactions on Dependable and Secure Computing, 2004, 1, 109-127.	3.7	39
36	Nonideal battery properties and their impact on software design for wearable computers. IEEE Transactions on Computers, 2003, 52, 979-984.	2.4	10

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37	New frontiers of application design. Communications of the ACM, 2002, 45, 79-82.	3.3	32
38	Application design for wearable and context-aware computers. IEEE Pervasive Computing, 2002, 1, 20-29.	1.1	43
39	Project Aura: toward distraction-free pervasive computing. IEEE Pervasive Computing, 2002, 1, 22-31.	1.1	591
40	Nonideal battery and main memory effects on CPU speed-setting for low power. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2001, 9, 29-34.	2.1	44
41	Measuring software dependability by robustness benchmarking. IEEE Transactions on Software Engineering, 1997, 23, 366-378.	4.3	60
42	A methodology for the rapid injection of transient hardware errors. IEEE Transactions on Computers, 1996, 45, 881-891.	2.4	31
43	Matching interface design with user tasks. Modalities of interaction with CMU wearable computers. IEEE Personal Communications, 1996, 3, 14-25.	4.5	45
44	Integrating Design Education, Research and Practice at Carnegie Mellon: A Multiâ€disciplinary Course in Wearable Computers. Journal of Engineering Education, 1996, 85, 279-285.	1.9	16
45	Architectures and algorithms for on-line failure recovery in redundant disk arrays. Distributed and Parallel Databases, 1994, 2, 295-335.	1.0	75
46	Wearable computers. IEEE Potentials, 1994, 13, 36-38.	0.2	5
47	Evaluation and comparison of fault-tolerant software techniques. IEEE Transactions on Reliability, 1993, 42, 190-204.	3.5	26
48	Cache behavior of combinator graph reduction. ACM Transactions on Programming Languages and Systems, 1992, 14, 265-297.	1.7	20
49	Observations on the effects of fault manifestation as a function of workload. IEEE Transactions on Computers, 1992, 41, 559-566.	2.4	41
50	Engineering workstations-ICs: the brains of a workstation. IEEE Spectrum, 1992, 29, 52-54.	0.5	5
51	Modification of: error log analysis: statistical modeling and heuristic trend analysis. IEEE Transactions on Reliability, 1992, 41, 599-601, 607.	3.5	12
52	Modeling and measurement of the impact of Input/Output on system performance. Computer Architecture News, 1991, 19, 390-399.	2.5	2
53	MICON: Automated Design of Computer Systems. , 1991, , 105-125.		1
54	Error log analysis: statistical modeling and heuristic trend analysis. IEEE Transactions on Reliability, 1990, 39, 419-432.	3.5	139

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55	Fault injection experiments using FIAT. IEEE Transactions on Computers, 1990, 39, 575-582.	2.4	181
56	Automated knowledge acquisition for a computer hardware systhesis system. International Journal of Human-Computer Studies, 1989, 1, 321-340.	1.2	17
57	MICON: a single-board computer synthesis tool. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 1988, 4, 37-46.	0.8	24
58	Performance prediction and calibration for a class of multiprocessors. IEEE Transactions on Computers, 1988, 37, 1353-1365.	2.4	46
59	WEAVER: A Knowledge-Based Routing Expert. IEEE Design and Test of Computers, 1986, 3, 12-23.	1.4	33
60	The influence of parallel decomposition strategies on the performance of multiprocessor systems. Computer Architecture News, 1985, 13, 396-405.	2.5	23
61	Architecture of Fault-Tolerant Computers. Computer, 1984, 17, 9-18.	1.2	44
62	Exploiting Domain Knowledge in IC Cell Layout. IEEE Design and Test of Computers, 1984, 1, 52-64.	1.4	24
63	A survey of highly parallel computing. Computer, 1982, 15, 9-24.	1.2	91
64	Synchronization and voting. IEEE Transactions on Computers, 1981, C-30, 161-164.	2.4	13
65	Measuring designer performance to verify design automation systems. IEEE Transactions on Computers, 1981, C-30, 48-61.	2.4	15
66	The Use of LSI Modules in Computer Structures: Trends and Limitations. Computer, 1978, 11, 16-25.	1.2	20
67	A Reliability Model for Various Switch Designs in Hybrid Redundancy. IEEE Transactions on Computers, 1976, C-25, 115-133.	2.4	22
68	The CMU RT-CAD system. , 1976, , .		20
69	Use of the concept of transparency in the design of hierarchically structured systems. Communications of the ACM, 1975, 18, 401-408.	3.3	61
70	Automated exploration of the design space for register transfer (RT) systems. Computer Architecture News, 1973, 2, 101-106.	2.5	22
71	Reliable Computer Systems. , 0, , .		259