Christine Julien

List of Publications by Year
in descending order

132 papers	964 citations	932766 10 h-index	887659 17 g-index
137 all docs	137 docs citations	137 times ranked	780 citing authors

#	ARTICLE	IF	CITATIONS
1	Perceptions on the State of the Art in Verification and Validation in Cyber-Physical Systems. IEEE Systems Journal, 2017, 11, 2614-2627.	2.9	59
2	Egocentric context-aware programming in ad hoc mobile environments. , 2002, , .		34
3	A Platform for Evaluating Autonomous Intersection Management Policies. , 2012, , .		33
4	Verification and Validation in Cyber Physical Systems: Research Challenges and a Way Forward. , 2015, , .		33
5	Pervasive computing middleware: current trends and emerging challenges. CCF Transactions on Pervasive Computing and Interaction, 2019, 1, 10-23.	1.7	33
6	BLEnd. , 2017, , .		32
7	An energy-efficient quality adaptive framework for multi-modal sensor context recognition. , 2011, , .		30
8	Software Engineering for Smart Cyber-Physical Systems -- Towards a Research Agenda. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2015, 40, 28-32.	0.5	29
9	Efficient and Scalable Runtime Monitoring for Cyberâ€"Physical System. IEEE Systems Journal, 2018, 12, 1667-1678.	2.9	25
10	Modeling adaptive behaviors in Context UNITY. Theoretical Computer Science, 2007, 376, 185-204.	0.5	20
11	Challenges of satisfying multiple stakeholders. , 2011, , .		20
12	Network abstractions for context-aware mobile computing. , 2002, , .		20
13	On coordination in practical multi-robot patrol. , 2012, , .		19
14	Software engineering for mobility: reflecting on the past, peering into the future. , 2014, , .		18
15	BraceAssertion: Runtime Verification of Cyber-Physical Systems. , 2015, , .		17
16	Chitchat: Navigating tradeoffs in device-to-device context sharing. , 2016, , .		17
17	Role of Digital Games in Self-Management of Cardiovascular Diseases: A Scoping Review. Games for Health Journal, 2019, 8, 65-73.	1.1	17
18	Evasion planning for autonomous vehicles at intersections. , 2012, , .		15

#	ARTICLE	IF	CITATIONS
19	Trends and Challenges for Software Engineering in the Mobile Domain. IEEE Software, 2021, 38, 88-96.	2.1	14
20	Multi-modal data collection for measuring health, behavior, and living environment of large-scale participant cohorts. GigaScience, 2021, 10, .	3.3	14
21	The case for end-user programming of ubiquitous computing environments. , 2010, , .		13
22	BraceForce: a middleware to enable sensing integration in mobile applications for novice programmers. , 2014, , .		13
23	SCENTS: Collaborative Sensing in Proximity IoT Networks. , 2019, , .		13
24	A Local Data Abstraction and Communication Paradigm for Pervasive Computing. , 2007, , .		12
25	Gander: Mobile, Pervasive Search <italic>of</italic> the Here and Now <italic>in</italic> the Here and Now. IEEE Internet of Things Journal, 2014, 1, 483-496.	5.5	12
26	Reasoning About Context-Awareness in the Presence of Mobility. Electronic Notes in Theoretical Computer Science, 2004, 97, 259-276.	0.9	11
27	A secure modular mobile agent system. , 2006, , .		11
28	Resource discovery with evolving tuples. , 2007, , .		11
29	Quality-of-inference (QoINF)-aware context determination in assisted living environments. , 2009, , .		11
30	Network coded routing in delay tolerant networks. , 2011, , .		11
31	Grapevine: Efficient situational awareness in pervasive computing environments. , 2012, , .		11
32	Feasibility of a Sensor-Controlled Digital Game for Heart Failure Self-management: Randomized Controlled Trial. JMIR Serious Games, 2021, 9, e29044.	1.7	10
33	Automatic consistency assessment for query results in dynamic environments. , 2007, , .		9
34	MADServer. , 2012, , .		9
35	Quality and Context-Aware Smart Health Care: Evaluating the Cost-Quality Dynamics. IEEE Systems, Man, and Cybernetics Magazine, 2016, 2, 15-25.	1.2	9
36	Project SMART: A cooperative educational game to increase physical activity in elementary schools. Smart Health, 2021, 19, 100163.	2.0	9

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37	Automated routing protocol selection in mobile ad hoc networks. , 2007, , .		8
38	Scenes: Abstracting interaction in immersive sensor networks. Pervasive and Mobile Computing, 2007, 3, 635-658.	2.1	8
39	Real-Time Simulation Support for Runtime Verification of Cyber-Physical Systems. Transactions on Embedded Computing Systems, 2017, 16, 1-24.	2.1	8
40	Lasso: A device-to-device group monitoring service for smart cities. , 2017, , .		8
41	Usability Testing of a Sensor-Controlled Digital Game to Engage Older Adults with Heart Failure in Physical Activity and Weight Monitoring. Applied Clinical Informatics, 2020, 11, 873-881.	0.8	8
42	An interrelational grouping abstraction for heterogeneous sensors. ACM Transactions on Sensor Networks, 2009, 5, 1-31.	2.3	7
43	Semantic self-assessment of query results in dynamic environments. ACM Transactions on Software Engineering and Methodology, 2010, 19, 1-33.	4.8	7
44	Supporting multi-fidelity-aware concurrent applications in dynamic sensor networks. , 2010, , .		7
45	Omni. , 2018, , .		7
46	WARBLE: Programming Abstractions for Personalizing Interactions in the Internet of Things. , 2019, , .		7
47	Analysis of IFTTT Recipes to Study How Humans Use Internet-of-Things (IoT) Devices. , 2021, , .		7
48	Opening pervasive computing to the masses using the SEAP middleware. , 2009, , .		6
49	Integrating participatory sensing in application development practices. , 2010, , .		6
50	Blurring snapshots: Temporal inference of missing and uncertain data. , 2010, , .		6
51	Experiments on the spatial distribution of network code diversity in segmented DTNs. , 2011, , .		6
52	Inquiry and Introspection for Non-deterministic Queries in Mobile Networks. Lecture Notes in Computer Science, 2009, , 401-416.	1.0	6
53	Supporting Generalized Context Interactions. Lecture Notes in Computer Science, 2005, , 91-106.	1.0	5
54	SICC: Source-Initiated Context Construction in Mobile Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2008, 7, 401-415.	3.9	5

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55	Delay analysis for symmetric nodes in mobile ad hoc networks. , 2009, , .		5
56	Rethinking Context for Pervasive Computing: Adaptive Shared Perspectives. , 2012, , .		5
57	Determining Quality- and Energy-Aware Multiple Contexts in Pervasive Computing Environments. IEEE/ACM Transactions on Networking, 2016, 24, 3026-3042.	2.6	5
58	<sc>Paco</sc>: A System-Level Abstraction for On-Loading Contextual Data to Mobile Devices. IEEE Transactions on Mobile Computing, 2018, 17, 2127-2140.	3.9	5
59	PINCH: Self-Organized Context Neighborhoods for Smart Environments. , 2018, , .		5
60	LGBTQ+ in ECE: Culture and (Non)Visibility. IEEE Transactions on Education, 2021, 64, 345-352.	2.0	5
61	Pervasive Context Sharing in Magpie: Adaptive Trust-Based Privacy Protection. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 122-139.	0.2	5
62	Supporting Context-Aware Interaction in Dynamic Multi-agent Systems. Lecture Notes in Computer Science, 2005, , 168-189.	1.0	5
63	Gander: Personalizing Search of the Here and Now. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 88-100.	0.2	5
64	Enabling Ubiquitous Coordination Using Application Sessions. Lecture Notes in Computer Science, 2006, , 130-144.	1.0	5
65	PAQ: Persistent Adaptive Query Middleware for Dynamic Environments. Lecture Notes in Computer Science, 2009, , 226-246.	1.0	5
66	Jive. , 2019, , .		5
67	Cross-Layer Discovery and Routing in Reconfigurable Wireless Networks. , 2006, , .		4
68	An Architecture for Local Decision Support in Ad Hoc Sensor Networks. , 2007, , .		4
69	Experiences using a miniature vehicular network testbed. , 2012, , .		4
70	The Grapevine Context Processor: Application Support for Efficient Context Sharing. , 2015, , .		4
71	Adaptive Preference Specifications for Application Sessions. Lecture Notes in Computer Science, 2006, , 78-89.	1.0	4
72	Resource-Optimized Quality-Assured Ambiguous Context Mediation in Pervasive Environments. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 232-248.	0.2	4

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73	A Cloudlet-Based Proximal Discovery Service for Machine-to-Machine Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 215-232.	0.2	4
74	Dynamic Decision Support in Direct-Access Sensor Networks; A Demonstration. , 2006, , .		3
75	An adaptive middleware to support delay tolerant networking. , 2008, , .		3
76	BRACE: An assertion framework for debugging cyber-physical systems. , 2012, , .		3
77	Size efficient big data sharing among Internet of Things devices. , 2017, , .		3
78	Intelligent Information Sharing Among IoT Devices: Models, Strategies, and Language. , 2018, , .		3
79	rIoT: Enabling Seamless Context-Aware Automation in the Internet of Things. , 2019, , .		3
80	ArcIoT: Enabling Intuitive Device Control in the Internet of Things through Augmented Reality. , 2021, , .		3
81	Resolving and Mediating Ambiguous Contexts in Pervasive Environments. , 0, , 122-147.		3
82	Resolving and mediating ambiguous contexts for pervasive care environments. , 2009, , .		2
83	Towards adaptive resource-driven routing. , 2009, , .		2
84	A spatiotemporal model for ephemeral data in pervasive computing networks. , 2012, , .		2
85	Using snapshot query fidelity to adapt continuous query execution. Pervasive and Mobile Computing, 2012, 8, 317-330.	2.1	2
86	Engaging the Masses in Pervasive Computing: A Missed Opportunity?. IEEE Internet Computing, 2012, 16, 74-77.	3.2	2
87	MadApp: A Middleware for Opportunistic Data in Mobile Web Applications. , 2014, , .		2
88	XD (exchange-deliver). , 2016, , .		2
89	BLOC: A Game-Theoretic Approach to Orchestrate CPS against Cyber Attacks. , 2018, , .		2
90	Stacon: Self-Stabilizing Context Neighborhood for Mobile IoT Devices. , 2019, , .		2

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91	LAD: Learning Access Control Polices and Detecting Access Anomalies in Smart Environments. , 2019, , .		2
92	Development of a School-Based Physical Activity Intervention Using an Integrated Approach: Project SMART. Frontiers in Psychology, 2021, 12, 648625.	1.1	2
93	Adaptive Data Quality for Persistent Queries in Sensor Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 131-147.	0.2	2
94	A Declarative Approach to Agent-Centered Context-Aware Computing in Ad Hoc Wireless Environments. Lecture Notes in Computer Science, 2003, , 94-109.	1.0	2
95	Developing Collaborative Applications Using Sliverware. Lecture Notes in Computer Science, 2006, , 587-604.	1.0	2
96	Passive Network-Awareness for Dynamic Resource-Constrained Networks. Lecture Notes in Computer Science, 2011, , 106-121.	1.0	2
97	Dataset. , 2019, , .		2
98	So many sensors, so little data. , 2008, , .		1
99	Fidelity-based continuous query introspection and adaptation. , 2011, , .		1
100	myGander: A mobile interface and distributed search engine for pervasive computing. , 2012, , .		1
101	4<sup>th</sup> International Workshop on Software Engineering for sensor network applications (SESENA 2013). , 2013, , .		1
102	WiP abstract: BraceForce: Software engineering support for sensing in CPS applications. , 2014, , .		1
103	Demo: MadApp: Dynamic content support for delay-tolerant web applications. , 2014, , .		1
104	Demo abstract MoodChat: Using context-awareness to connect likeminded co-located individuals. , 2015, , .		1
105	Demo abstract disseminate: A demonstration of device-to-device media dissemination. , 2015, , .		1
106	From Human Mobility to Data Mobility: Leveraging Spatiotemporal History in Device-to-Device Information Diffusion. , 2016, , .		1
107	SEMComm. , 2016, , .		1
108	USABILITY ASSESSMENT OF A SENSOR-CONTROLLED DIGITAL GAME FOR OLDER ADULTS WITH HEART FAILURE. Innovation in Aging, 2019, 3, S892-S892.	0.0	1

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109	A Privacy-Aware Architecture to Share Device-to-Device Contextual Information. , 2020, , .		1
110	Enabling Programmable Ubiquitous Computing Environments. , 2008, , 117-149.		1
111	Automated Assessment of Aggregate Query Imprecision in Dynamic Environments. Lecture Notes in Computer Science, 2009, , 59-72.	1.0	1
112	Spitty Bifs are Spiffy Bits: Interest-Based Context Dissemination Using Spatiotemporal Bloom Filters. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 164-175.	0.2	1
113	Trust-Based, Privacy-Preserving Context Aggregation and Sharing in Mobile Ubiquitous Computing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 316-329.	0.2	1
114	The space broker. , 2021, , .		1
115	Abstract 13122: Sensor-controlled Digital Game May Improve Weight Monitoring Among Older Adults With Heart Failure. Circulation, 2020, 142, .	1.6	1
116	Prototyping Opportunistic Learning in Resource Constrained Mobile Devices. , 2022, , .		1
117	SASSI. , 2007, , .		0
118	Query Domains: Grouping Heterogeneous Sensors Based on Proximity. , 2007, , .		0
119	Enabling Deliberate Design for Energy Management in Pervasive Systems. , 2008, , .		0
120	Composable context-aware architectural connectors. , 2008, , .		0
121	ROCC: A Communication Overlay Abstraction for Wireless Users. , 2008, , .		0
122	Usability of Semantic Web for Enhancing Digital Living Experience. , 2010, , .		0
123	Balance: Budget-driven smart thermostat control. , 2014, , .		0
124	Efficient Decentralized Context Sharing via Smart Aggregation. , 2014, , .		0
125	SpatioTemporal Traveler. , 2016, , .		0
126	Data-Directed Contextual Relevance in the IoT. , 2017, , .		0

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127	Reminisce: Transparent and Contextually-Relevant Retrospection. , 2019, , .		0
128	Rapid Prototyping of Routing Protocols with Evolving Tuples. Lecture Notes in Computer Science, 2008, , 296-301.	1.0	0
129	A Prototype for Resource Optimized Context Determination in Pervasive Care Environments. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 335-338.	0.2	0
130	Improving Child Health through Technology-Supported Active Transport. , 2019, , .		0
131	Resolving and Mediating Ambiguous Contexts in Pervasive Environments. , 0, , 630-654.		0
132	CoPI: Enabling Probabilistic Conflict Prediction in Smart Space Through Context-awareness. , 2022, , .		0