

Pascal A Felber

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

165
papers

4,399
citations

25
h-index

63
g-index

193
ext. papers

5,473
ext. citations

2.2
avg, IF

5.44
L-index

#	Paper	IF	Citations
165	The many faces of publish/subscribe. <i>ACM Computing Surveys</i> , 2003 , 35, 114-131	13.4	1728
164	Edge-centric Computing. <i>Computer Communication Review</i> , 2015 , 45, 37-42	1.4	578
163	Dynamic performance tuning of word-based software transactional memory 2008 ,		218
162	Efficient filtering of XML documents with XPath expressions. <i>VLDB Journal</i> , 2002 , 11, 354-379	3.9	108
161	A Lazy Snapshot Algorithm with Eager Validation. <i>Lecture Notes in Computer Science</i> , 2006 , 284-298	0.9	105
160	Time-Based Software Transactional Memory. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2010 , 21, 1793-1807	3.7	80
159	Time-based transactional memory with scalable time bases 2007 ,		62
158	Why STM can be more than a research toy. <i>Communications of the ACM</i> , 2011 , 54, 70-77	2.5	60
157	Experiences, strategies, and challenges in building fault-tolerant CORBA systems. <i>IEEE Transactions on Computers</i> , 2004 , 53, 497-511	2.5	60
156	Evaluation of AMDB advanced synchronization facility within a complete transactional memory stack 2010 ,		51
155	SGXBOUNDS 2017 ,		50
154	HIERARCHICAL PEER-TO-PEER SYSTEMS. <i>Parallel Processing Letters</i> , 2003 , 13, 643-657	0.3	48
153	Speculative out-of-order event processing with software transaction memory 2008 ,		33
152	Optimizing hybrid transactional memory 2011 ,		32
151	Read-log-update 2015 ,		31
150	Identifying the Optimal Level of Parallelism in Transactional Memory Applications. <i>Lecture Notes in Computer Science</i> , 2013 , 233-247	0.9	29
149	Scheduling support for transactional memory contention management 2010 ,		29

148	Semantic Peer-to-Peer Overlays for Publish/Subscribe Networks. <i>Lecture Notes in Computer Science</i> , 2005 , 1194-1204	0.9	29
147	Tree Pattern Aggregation for Scalable XML Data Dissemination 2002 , 826-837		28
146	Automatic data partitioning in software transactional memories 2008 ,		27
145	Secure Content-Based Routing Using Intel Software Guard Extensions 2016 ,		27
144	The implementation of a CORBA object group service. <i>Theory and Practice of Object Systems</i> , 1998 , 4, 93-105		26
143	Confidentiality-Preserving Publish/Subscribe. <i>ACM Computing Surveys</i> , 2016 , 49, 1-43	13.4	26
142	Efficient search in unstructured peer-to-peer networks. <i>European Transactions on Telecommunications</i> , 2004 , 15, 535-548		25
141	Elastic Transactions. <i>Lecture Notes in Computer Science</i> , 2009 , 93-107	0.9	25
140	Intel MPX Explained 2018 ,		24
139	StreamHub 2013 ,		22
138	Process-level power estimation in VM-based systems 2015 ,		21
137	HAFT 2016 ,		21
136	Survey on Load Balancing in Peer-to-Peer Distributed Hash Tables. <i>IEEE Communications Surveys and Tutorials</i> , 2014 , 16, 473-492	37.1	19
135	Thrifty privacy 2012 ,		18
134	Automatic detection and masking of nonatomic exception handling. <i>IEEE Transactions on Software Engineering</i> , 2004 , 30, 547-560	3.5	18
133	Romulus 2018 ,		18
132	Elastic Scaling of a High-Throughput Content-Based Publish/Subscribe Engine 2014 ,		17
131	SGX-Aware Container Orchestration for Heterogeneous Clusters 2018 ,		16

130	Transactions are back---but are they the same?. <i>ACM SIGACT News</i> , 2008 , 39, 48-58	0.3	16
129	ON THE INPUT ACCEPTANCE OF TRANSACTIONAL MEMORY. <i>Parallel Processing Letters</i> , 2010 , 20, 31-50	0.3	15
128	From causal to z-linearizable transactional memory 2007 ,		15
127	Dynamic Load Sharing in Peer-to-Peer Systems: When Some Peers Are More Equal than Others. <i>IEEE Internet Computing</i> , 2007 , 11, 53-61	2.4	15
126	Agar: A Caching System for Erasure-Coded Data 2017 ,		14
125	WHISPER: Middleware for Confidential Communication in Large-Scale Networks 2011 ,		14
124	The "art" of programming gossip-based systems. <i>Operating Systems Review (ACM)</i> , 2007 , 41, 37-42	0.8	14
123	Adaptive Load Balancing for DHT Lookups. <i>Computer Communications and Networks (IC3N), Proceedings of the IEEE International Conference on</i> , 2006 ,		14
122	Toward a Theory of Input Acceptance for Transactional Memories. <i>Lecture Notes in Computer Science</i> , 2008 , 527-533	0.9	14
121	2018 ,		13
120	A Lightweight MapReduce Framework for Secure Processing with SGX 2017 ,		13
119	Scalable Distribution of XML Content with XNet. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2008 , 19, 447-461	3.7	13
118	Stabilizing Peer-to-Peer Spatial Filters 2007 ,		12
117	Performance Analysis of Peer-to-Peer Networks for File Distribution. <i>Lecture Notes in Computer Science</i> , 2004 , 1-10	0.9	12
116	Content-Based Publish/Subscribe Using Distributed R-Trees. <i>Lecture Notes in Computer Science</i> , 2007 , 537-548	0.9	12
115	Intel MPX Explained. <i>Proceedings of the ACM on Measurement and Analysis of Computing Systems</i> , 2018 , 2, 1-30	1.4	12
114	OneFile: A Wait-Free Persistent Transactional Memory 2019 ,		11
113	Extensible transactional memory testbed. <i>Journal of Parallel and Distributed Computing</i> , 2010 , 70, 1053-1067	1.7	11

112	Scalable filtering of XML data for Web services. <i>IEEE Internet Computing</i> , 2003 , 7, 49-57	2.4	11
111	Replication of CORBA Objects. <i>Lecture Notes in Computer Science</i> , 2000 , 254-276	0.9	11
110	GENPACK: A Generational Scheduler for Cloud Data Centers 2017 ,		10
109	SecureStreams 2017 ,		10
108	X-search 2017 ,		10
107	2009 ,		10
106	ELZAR: Triple Modular Redundancy Using Intel AVX (Practical Experience Report) 2016 ,		10
105	Elastic transactions. <i>Journal of Parallel and Distributed Computing</i> , 2017 , 100, 103-127	4.4	9
104	IBBE-SGX: Cryptographic Group Access Control Using Trusted Execution Environments 2018 ,		9
103	On the Support of Versioning in Distributed Key-Value Stores 2014 ,		9
102	Stabilizing Distributed R-Trees for Peer-to-Peer Content Routing. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2010 , 21, 1175-1187	3.7	9
101	Minimizing Latency in Fault-Tolerant Distributed Stream Processing Systems 2009 ,		9
100	Security, Performance and Energy Trade-Offs of Hardware-Assisted Memory Protection Mechanisms 2018 ,		9
99	HyPeer: Structured overlay with flexible-choice routing. <i>Computer Networks</i> , 2011 , 55, 300-313	5.4	8
98	Deadline-aware scheduling for Software Transactional Memory 2011 ,		8
97	The Velox Transactional Memory Stack. <i>IEEE Micro</i> , 2010 , 30, 76-87	1.8	8
96	Design choices for content distribution in P2P networks. <i>Computer Communication Review</i> , 2005 , 35, 29-40	1.4	8
95	2017 ,		7

94	ParaDIME: Parallel Distributed Infrastructure for Minimization of Energy for data centers. <i>Microprocessors and Microsystems</i> , 2015 , 39, 1174-1189	2.4	7
93	CYCLOSA: Decentralizing Private Web Search through SGX-Based Browser Extensions 2018 ,		7
92	The next 700 CPU power models. <i>Journal of Systems and Software</i> , 2018 , 144, 382-396	3.3	7
91	LEGaTO 2018 ,		7
90	SafeFS: a modular architecture for secure user-space file systems 2017 ,		7
89	Transactional memory for dependable embedded systems 2011 ,		7
88	Tree-Based Analysis of Mesh Overlays for Peer-to-Peer Streaming. <i>Lecture Notes in Computer Science</i> , 2008 , 126-139	0.9	7
87	A performance study of Java garbage collectors on multicore architectures 2015 ,		6
86	Identifying the optimal level of parallelism in transactional memory applications. <i>Computing (Vienna/New York)</i> , 2015 , 97, 939-959	2.2	6
85	Hardware read-write lock elision 2016 ,		6
84	Optimizing Machine Learning Algorithms on Multi-Core and Many-Core Architectures Using Thread and Data Mapping 2018 ,		6
83	System support for object groups. <i>ACM SIGPLAN Notices</i> , 1998 , 33, 244-258	0.2	6
82	Atomic Boxes: Coordinated Exception Handling with Transactional Memory. <i>Lecture Notes in Computer Science</i> , 2011 , 634-657	0.9	6
81	SGX-FS: Hardening a File System in User-Space with Intel SGX 2018 ,		6
80	Replicating CORBA Objects: A Marriage between Active and Passive Replication 1999 , 375-387		6
79	UniCrawl: A Practical Geographically Distributed Web Crawler 2015 ,		5
78	Combining Error Detection and Transactional Memory for Energy-Efficient Computing below Safe Operation Margins 2014 ,		5
77	ZooFence: Principled Service Partitioning and Application to the ZooKeeper Coordination Service 2014 ,		5

76	Scaling Up Publish/Subscribe Overlays Using Interest Correlation for Link Sharing. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2013 , 24, 2462-2471	3.7	5
75	EpTO 2015 ,		5
74	Efficient Key Updates through Subscription Re-encryption for Privacy-Preserving Publish/Subscribe 2015 ,		5
73	FastLane 2013 ,		5
72	Scheduling support for transactional memory contention management. <i>ACM SIGPLAN Notices</i> , 2010 , 45, 79-90	0.2	5
71	A Performance Evaluation of Erasure Coding Libraries for Cloud-Based Data Stores. <i>Lecture Notes in Computer Science</i> , 2016 , 160-173	0.9	5
70	The implementation of a CORBA object group service 1998 , 4, 93		5
69	Introducing SECURESTREAMS: Scalable Middleware for Reactive and Secure Data Stream Processing 2017 ,		4
68	Everything You Should Know about Intel SGX Performance on Virtualized Systems 2019 ,		4
67	Pulp: An adaptive gossip-based dissemination protocol for multi-source message streams. <i>Peer-to-Peer Networking and Applications</i> , 2012 , 5, 74-91	3.1	4
66	A framework for the dynamic evolution of highly-available dataflow programs 2014 ,		4
65	Lightweight, efficient, robust epidemic dissemination. <i>Journal of Parallel and Distributed Computing</i> , 2013 , 73, 987-999	4.4	4
64	Assertion-Driven Development: Assessing the Quality of Contracts Using Meta-Mutations 2009 ,		4
63	Scalable distribution of XML content with XNet. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2010 , PP, 1-1	4.2	4
62	Experiences with object group systems. <i>Software - Practice and Experience</i> , 2000 , 30, 1375-1404	2.5	4
61	Persistent memory and the rise of universal constructions 2020 ,		4
60	Developing Secure Services for IoT with OP-TEE: A First Look at Performance and Usability. <i>Lecture Notes in Computer Science</i> , 2019 , 170-178	0.9	4
59	Network-Friendly Gossiping. <i>Lecture Notes in Computer Science</i> , 2009 , 655-669	0.9	4

58	RobuSTM: A Robust Software Transactional Memory. <i>Lecture Notes in Computer Science</i> , 2010 , 388-404	0.9	4
57	GlobalFS: A Strongly Consistent Multi-site File System 2016 ,		4
56	PubSub-SGX: Exploiting Trusted Execution Environments for Privacy-Preserving Publish/Subscribe Systems 2018 ,		4
55	LEGaTO 2018 ,		4
54	LAYSTREAM: Composing standard gossip protocols for live video streaming 2014 ,		3
53	FFQ: A Fast Single-Producer/Multiple-Consumer Concurrent FIFO Queue 2017 ,		3
52	SAFETHINGS: Data Security by Design in the IoT 2017 ,		3
51	Ensuring Data Durability with Increasingly Interdependent Content 2015 ,		3
50	TM-Stream: An STM framework for distributed event stream processing 2009 ,		3
49	Advanced concurrency control in Java. <i>Concurrency Computation Practice and Experience</i> , 2002 , 14, 261-285		3
48	Collaborative Ranking and Profiling: Exploiting the Wisdom of Crowds in Tailored Web Search. <i>Lecture Notes in Computer Science</i> , 2010 , 226-242	0.9	3
47	Evaluating the Price of Consistency in Distributed File Storage Services. <i>Lecture Notes in Computer Science</i> , 2013 , 141-154	0.9	3
46	Helical Entanglement Codes: An Efficient Approach for Designing Robust Distributed Storage Systems. <i>Lecture Notes in Computer Science</i> , 2013 , 32-44	0.9	3
45	Transactional Encoding for Tolerating Transient Hardware Errors. <i>Lecture Notes in Computer Science</i> , 2013 , 1-16	0.9	3
44	Heats: Heterogeneity-and Energy-Aware Task-Based Scheduling 2019 ,		2
43	Dynamic Message Processing and Transactional Memory in the Actor Model. <i>Lecture Notes in Computer Science</i> , 2015 , 94-107	0.9	2
42	Secure and Privacy-Aware Data Dissemination for Cloud-Based Applications 2017 ,		2
41	Alpha Entanglement Codes: Practical Erasure Codes to Archive Data in Unreliable Environments 2018 ,		2

40	WattsKit: Software-Defined Power Monitoring of Distributed Systems 2017 ,		2
39	Putting OO distributed programming to work. <i>Communications of the ACM</i> , 1999 , 42, 97-101	2.5	2
38	FastLane. <i>ACM SIGPLAN Notices</i> , 2013 , 48, 113-122	0.2	2
37	A wait-free universal construction for large objects 2020 ,		2
36	TEEMon 2020 ,		2
35	Brief Announcement: Hybrid Time-Based Transactional Memory. <i>Lecture Notes in Computer Science</i> , 2010 , 124-126	0.9	2
34	On the Cost of Safe Storage for Public Clouds: An Experimental Evaluation 2016 ,		2
33	Anonymous and Confidential File Sharing over Untrusted Clouds 2019 ,		2
32	Network-Aware Container Scheduling in Multi-Tenant Data Center 2019 ,		2
31	Secure end-to-end processing of smart metering data. <i>Journal of Cloud Computing: Advances, Systems and Applications</i> , 2019 , 8,	3.2	2
30	Cloud Challenge: Secure End-to-End Processing of Smart Metering Data 2018 ,		2
29	Efficient and Confidentiality-Preserving Content-Based Publish/Subscribe with Prefiltering. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2015 , 1-1	3.9	1
28	CoFeed: privacy-preserving Web search recommendation based on collaborative aggregation of interest feedback. <i>Software - Practice and Experience</i> , 2013 , 43, 1165-1184	2.5	1
27	Using power measurements as a basis for workload placement in heterogeneous multi-cloud environments 2014 ,		1
26	2010 ,		1
25	Infrastructure Provisioning for Scalable Content-Based Routing: Framework and Analysis 2012 ,		1
24	Managing collaborative feedback information for distributed retrieval 2008 ,		1
23	P2P Experimentations with Splay: From Idea to Deployment Results in 30 min. 2008 ,		1

22	A Lightweight MapReduce Framework for Secure Processing with SGX		1
21	Speculative Concurrent Processing with Transactional Memory in the Actor Model. <i>Lecture Notes in Computer Science</i> , 2013 , 160-175	0.9	1
20	Enhanced Energy Efficiency with the Actor Model on Heterogeneous Architectures. <i>Lecture Notes in Computer Science</i> , 2016 , 1-15	0.9	1
19	SplayNet: Distributed User-Space Topology Emulation. <i>Lecture Notes in Computer Science</i> , 2013 , 62-81	0.9	1
18	Extending hardware transactional memory capacity via rollback-only transactions and suspend/resume. <i>Distributed Computing</i> , 2020 , 33, 327-348	1.2	1
17	Simple data entanglement layouts with high reliability 2016 ,		1
16	Supporting Time-Based QoS Requirements in Software Transactional Memory. <i>ACM Transactions on Parallel Computing</i> , 2015 , 2, 1-30	1.4	0
15	Intel MPX Explained. <i>Performance Evaluation Review</i> , 2019 , 46, 111-112	0.4	0
14	Safe Exception Handling with Transactional Memory. <i>Lecture Notes in Computer Science</i> , 2015 , 245-267	0.9	0
13	Malware in the SGX supply chain: Be careful when signing enclaves!. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2020 , 1-1	3.9	0
12	Exploiting Concurrency in Domain-Specific Data Structures: A Concurrent Order Book and Workload Generator for Online Trading. <i>Lecture Notes in Computer Science</i> , 2016 , 16-31	0.9	
11	Transactional Pointers: Experiences with HTM-Based Reference Counting in C++. <i>Lecture Notes in Computer Science</i> , 2016 , 102-116	0.9	
10	Semantic Based Error Avoidance and Correction for Video Streaming. <i>Studies in Computational Intelligence</i> , 2010 , 73-92	0.8	
9	Tit-for-tat revisited: Trading bandwidth for reliability in P2P media streaming. <i>Multiagent and Grid Systems</i> , 2009 , 5, 197-215	0.5	
8	Peer-to-Peer Distribution Architectures Providing Uniform Download Rates. <i>Lecture Notes in Computer Science</i> , 2005 , 1083-1096	0.9	
7	Intel MPX Explained. <i>Performance Evaluation Review</i> , 2019 , 46, 111-112	0.4	
6	Short Paper: Stress-SGX: Load and Stress Your Enclaves for Fun and Profit. <i>Lecture Notes in Computer Science</i> , 2019 , 358-363	0.9	
5	iperFTZ: Understanding Network Bottlenecks for TrustZone-Based Trusted Applications. <i>Lecture Notes in Computer Science</i> , 2019 , 178-193	0.9	

- 4 TMBean: Optimistic Concurrency in Application Servers Using Transactional Memory. *Lecture Notes in Computer Science*, **2009**, 484-496 0.9
- 3 Performance/Security Tradeoffs for Content-Based Routing Supported by Bloom Filters. *Lecture Notes in Computer Science*, **2013**, 129-140 0.9
- 2 Energy-proportional profiling and accounting in heterogeneous virtualized environments. *Sustainable Computing: Informatics and Systems*, **2018**, 18, 175-185 3
- 1 P2P Information Lookup, Collection, and Distribution in Mobile Ad-Hoc Networks1-25