

# Pascal A Felber

## List of Publications by Year in Descending Order

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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	Persistent memory and the rise of universal constructions <b>2020</b> ,		4
164	A wait-free universal construction for large objects <b>2020</b> ,		2
163	TEEMon <b>2020</b> ,		2
162	Extending hardware transactional memory capacity via rollback-only transactions and suspend/resume. <i>Distributed Computing</i> , <b>2020</b> , 33, 327-348	1.2	1
161	Malware in the SGX supply chain: Be careful when signing enclaves!. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2020</b> , 1-1	3.9	0
160	Everything You Should Know about Intel SGX Performance on Virtualized Systems <b>2019</b> ,		4
159	OneFile: A Wait-Free Persistent Transactional Memory <b>2019</b> ,		11
158	Heats: Heterogeneity-and Energy-Aware Task-Based Scheduling <b>2019</b> ,		2
157	Developing Secure Services for IoT with OP-TEE: A First Look at Performance and Usability. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 170-178	0.9	4
156	Intel MPX Explained. <i>Performance Evaluation Review</i> , <b>2019</b> , 46, 111-112	0.4	
155	Intel MPX Explained. <i>Performance Evaluation Review</i> , <b>2019</b> , 46, 111-112	0.4	0
154	Short Paper: Stress-SGX: Load and Stress Your Enclaves for Fun and Profit. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 358-363	0.9	
153	iperfTZ: Understanding Network Bottlenecks for TrustZone-Based Trusted Applications. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 178-193	0.9	
152	Anonymous and Confidential File Sharing over Untrusted Clouds <b>2019</b> ,		2
151	Network-Aware Container Scheduling in Multi-Tenant Data Center <b>2019</b> ,		2
150	Secure end-to-end processing of smart metering data. <i>Journal of Cloud Computing: Advances, Systems and Applications</i> , <b>2019</b> , 8,	3.2	2
149	CYCLOSA: Decentralizing Private Web Search through SGX-Based Browser Extensions <b>2018</b> ,		7

148	Intel MPX Explained <b>2018</b> ,		24
147	The next 700 CPU power models. <i>Journal of Systems and Software</i> , <b>2018</b> , 144, 382-396	3-3	7
146	Alpha Entanglement Codes: Practical Erasure Codes to Archive Data in Unreliable Environments <b>2018</b> ,		2
145	IBBE-SGX: Cryptographic Group Access Control Using Trusted Execution Environments <b>2018</b> ,		9
144	<b>2018</b> ,		13
143	SGX-Aware Container Orchestration for Heterogeneous Clusters <b>2018</b> ,		16
142	LEGaTO <b>2018</b> ,		7
141	Optimizing Machine Learning Algorithms on Multi-Core and Many-Core Architectures Using Thread and Data Mapping <b>2018</b> ,		6
140	Energy-proportional profiling and accounting in heterogeneous virtualized environments. <i>Sustainable Computing: Informatics and Systems</i> , <b>2018</b> , 18, 175-185	3	
139	Cloud Challenge: Secure End-to-End Processing of Smart Metering Data <b>2018</b> ,		2
138	PubSub-SGX: Exploiting Trusted Execution Environments for Privacy-Preserving Publish/Subscribe Systems <b>2018</b> ,		4
137	SGX-FS: Hardening a File System in User-Space with Intel SGX <b>2018</b> ,		6
136	Security, Performance and Energy Trade-Offs of Hardware-Assisted Memory Protection Mechanisms <b>2018</b> ,		9
135	LEGaTO <b>2018</b> ,		4
134	Intel MPX Explained. <i>Proceedings of the ACM on Measurement and Analysis of Computing Systems</i> , <b>2018</b> , 2, 1-30	1.4	12
133	Romulus <b>2018</b> ,		18
132	GENPACK: A Generational Scheduler for Cloud Data Centers <b>2017</b> ,		10
131	Introducing SECURESTREAMS: Scalable Middleware for Reactive and Secure Data Stream Processing <b>2017</b> ,		4

130	<b>2017,</b>		7
129	<b>SGXBOUNDS 2017,</b>		50
128	Elastic transactions. <i>Journal of Parallel and Distributed Computing</i> , <b>2017</b> , 100, 103-127	4.4	9
127	<b>SecureStreams 2017,</b>		10
126	Secure and Privacy-Aware Data Dissemination for Cloud-Based Applications <b>2017,</b>		2
125	SafeFS: a modular architecture for secure user-space file systems <b>2017,</b>		7
124	Agar: A Caching System for Erasure-Coded Data <b>2017,</b>		14
123	A Lightweight MapReduce Framework for Secure Processing with SGX <b>2017,</b>		13
122	FFQ: A Fast Single-Producer/Multiple-Consumer Concurrent FIFO Queue <b>2017,</b>		3
121	SAFETHINGS: Data Security by Design in the IoT <b>2017,</b>		3
120	WattsKit: Software-Defined Power Monitoring of Distributed Systems <b>2017,</b>		2
119	<b>X-search 2017,</b>		10
118	Exploiting Concurrency in Domain-Specific Data Structures: A Concurrent Order Book and Workload Generator for Online Trading. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 16-31	0.9	
117	Transactional Pointers: Experiences with HTM-Based Reference Counting in C++. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 102-116	0.9	
116	Hardware read-write lock elision <b>2016,</b>		6
115	<b>HAFT 2016,</b>		21
114	Enhanced Energy Efficiency with the Actor Model on Heterogeneous Architectures. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 1-15	0.9	1
113	Confidentiality-Preserving Publish/Subscribe. <i>ACM Computing Surveys</i> , <b>2016</b> , 49, 1-43	13.4	26

112	Secure Content-Based Routing Using Intel Software Guard Extensions <b>2016</b> ,		27
111	On the Cost of Safe Storage for Public Clouds: An Experimental Evaluation <b>2016</b> ,		2
110	GlobalFS: A Strongly Consistent Multi-site File System <b>2016</b> ,		4
109	Simple data entanglement layouts with high reliability <b>2016</b> ,		1
108	A Performance Evaluation of Erasure Coding Libraries for Cloud-Based Data Stores. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 160-173	0.9	5
107	ELZAR: Triple Modular Redundancy Using Intel AVX (Practical Experience Report) <b>2016</b> ,		10
106	ParaDIME: Parallel Distributed Infrastructure for Minimization of Energy for data centers. <i>Microprocessors and Microsystems</i> , <b>2015</b> , 39, 1174-1189	2.4	7
105	Process-level power estimation in VM-based systems <b>2015</b> ,		21
104	Supporting Time-Based QoS Requirements in Software Transactional Memory. <i>ACM Transactions on Parallel Computing</i> , <b>2015</b> , 2, 1-30	1.4	0
103	Efficient and Confidentiality-Preserving Content-Based Publish/Subscribe with Prefiltering. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2015</b> , 1-1	3.9	1
102	Dynamic Message Processing and Transactional Memory in the Actor Model. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 94-107	0.9	2
101	Edge-centric Computing. <i>Computer Communication Review</i> , <b>2015</b> , 45, 37-42	1.4	578
100	A performance study of Java garbage collectors on multicore architectures <b>2015</b> ,		6
99	UniCrawl: A Practical Geographically Distributed Web Crawler <b>2015</b> ,		5
98	Identifying the optimal level of parallelism in transactional memory applications. <i>Computing (Vienna/New York)</i> , <b>2015</b> , 97, 939-959	2.2	6
97	Ensuring Data Durability with Increasingly Interdependent Content <b>2015</b> ,		3
96	Read-log-update <b>2015</b> ,		31
95	EpTO <b>2015</b> ,		5

94	Efficient Key Updates through Subscription Re-encryption for Privacy-Preserving Publish/Subscribe <b>2015</b> ,		5
93	Safe Exception Handling with Transactional Memory. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 245-267	0.9	0
92	Combining Error Detection and Transactional Memory for Energy-Efficient Computing below Safe Operation Margins <b>2014</b> ,		5
91	LAYSTREAM: Composing standard gossip protocols for live video streaming <b>2014</b> ,		3
90	Survey on Load Balancing in Peer-to-Peer Distributed Hash Tables. <i>IEEE Communications Surveys and Tutorials</i> , <b>2014</b> , 16, 473-492	37.1	19
89	ZooFence: Principled Service Partitioning and Application to the ZooKeeper Coordination Service <b>2014</b> ,		5
88	A framework for the dynamic evolution of highly-available dataflow programs <b>2014</b> ,		4
87	On the Support of Versioning in Distributed Key-Value Stores <b>2014</b> ,		9
86	Using power measurements as a basis for workload placement in heterogeneous multi-cloud environments <b>2014</b> ,		1
85	Elastic Scaling of a High-Throughput Content-Based Publish/Subscribe Engine <b>2014</b> ,		17
84	CoFeed: privacy-preserving Web search recommendation based on collaborative aggregation of interest feedback. <i>Software - Practice and Experience</i> , <b>2013</b> , 43, 1165-1184	2.5	1
83	Scaling Up Publish/Subscribe Overlays Using Interest Correlation for Link Sharing. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2013</b> , 24, 2462-2471	3.7	5
82	Identifying the Optimal Level of Parallelism in Transactional Memory Applications. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 233-247	0.9	29
81	Lightweight, efficient, robust epidemic dissemination. <i>Journal of Parallel and Distributed Computing</i> , <b>2013</b> , 73, 987-999	4.4	4
80	StreamHub <b>2013</b> ,		22
79	FastLane <b>2013</b> ,		5
78	FastLane. <i>ACM SIGPLAN Notices</i> , <b>2013</b> , 48, 113-122	0.2	2
77	Speculative Concurrent Processing with Transactional Memory in the Actor Model. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 160-175	0.9	1

76	Performance/Security Tradeoffs for Content-Based Routing Supported by Bloom Filters. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 129-140	0.9	
75	Evaluating the Price of Consistency in Distributed File Storage Services. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 141-154	0.9	3
74	Helical Entanglement Codes: An Efficient Approach for Designing Robust Distributed Storage Systems. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 32-44	0.9	3
73	Transactional Encoding for Tolerating Transient Hardware Errors. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 1-16	0.9	3
72	SplayNet: Distributed User-Space Topology Emulation. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 62-81	0.9	1
71	Pulp: An adaptive gossip-based dissemination protocol for multi-source message streams. <i>Peer-to-Peer Networking and Applications</i> , <b>2012</b> , 5, 74-91	3.1	4
70	Thrifty privacy <b>2012</b> ,		18
69	Infrastructure Provisioning for Scalable Content-Based Routing: Framework and Analysis <b>2012</b> ,		1
68	WHISPER: Middleware for Confidential Communication in Large-Scale Networks <b>2011</b> ,		14
67	Transactional memory for dependable embedded systems <b>2011</b> ,		7
66	HyPeer: Structured overlay with flexible-choice routing. <i>Computer Networks</i> , <b>2011</b> , 55, 300-313	5.4	8
65	Optimizing hybrid transactional memory <b>2011</b> ,		32
64	Deadline-aware scheduling for Software Transactional Memory <b>2011</b> ,		8
63	Why STM can be more than a research toy. <i>Communications of the ACM</i> , <b>2011</b> , 54, 70-77	2.5	60
62	Atomic Boxes: Coordinated Exception Handling with Transactional Memory. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 634-657	0.9	6
61	<b>2010</b> ,		1
60	Semantic Based Error Avoidance and Correction for Video Streaming. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 73-92	0.8	
59	ON THE INPUT ACCEPTANCE OF TRANSACTIONAL MEMORY. <i>Parallel Processing Letters</i> , <b>2010</b> , 20, 31-50	0.3	15

58	Evaluation of AMD <sup>B</sup> advanced synchronization facility within a complete transactional memory stack <b>2010</b> ,		51
57	Scheduling support for transactional memory contention management. <i>ACM SIGPLAN Notices</i> , <b>2010</b> , 45, 79-90	0.2	5
56	Scheduling support for transactional memory contention management <b>2010</b> ,		29
55	Stabilizing Distributed R-Trees for Peer-to-Peer Content Routing. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2010</b> , 21, 1175-1187	3.7	9
54	Time-Based Software Transactional Memory. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2010</b> , 21, 1793-1807	3.7	80
53	Scalable distribution of XML content with XNet. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2010</b> , PP, 1-1	4.2	4
52	The Velox Transactional Memory Stack. <i>IEEE Micro</i> , <b>2010</b> , 30, 76-87	1.8	8
51	Extensible transactional memory testbed. <i>Journal of Parallel and Distributed Computing</i> , <b>2010</b> , 70, 1053-1067	1.4	11
50	Collaborative Ranking and Profiling: Exploiting the Wisdom of Crowds in Tailored Web Search. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 226-242	0.9	3
49	RobuSTM: A Robust Software Transactional Memory. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 388-404	0.9	4
48	Brief Announcement: Hybrid Time-Based Transactional Memory. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 124-126	0.9	2
47	TM-Stream: An STM framework for distributed event stream processing <b>2009</b> ,		3
46	Assertion-Driven Development: Assessing the Quality of Contracts Using Meta-Mutations <b>2009</b> ,		4
45	<b>2009</b> ,		10
44	Minimizing Latency in Fault-Tolerant Distributed Stream Processing Systems <b>2009</b> ,		9
43	Tit-for-tat revisited: Trading bandwidth for reliability in P2P media streaming. <i>Multiagent and Grid Systems</i> , <b>2009</b> , 5, 197-215	0.5	
42	Elastic Transactions. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 93-107	0.9	25
41	Network-Friendly Gossiping. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 655-669	0.9	4

40	TMBean: Optimistic Concurrency in Application Servers Using Transactional Memory. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 484-496	0.9	
39	Automatic data partitioning in software transactional memories <b>2008</b> ,		27
38	Scalable Distribution of XML Content with XNet. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2008</b> , 19, 447-461	3.7	13
37	Dynamic performance tuning of word-based software transactional memory <b>2008</b> ,		218
36	Managing collaborative feedback information for distributed retrieval <b>2008</b> ,		1
35	Speculative out-of-order event processing with software transaction memory <b>2008</b> ,		33
34	P2P Experimentations with Splay: From Idea to Deployment Results in 30 min. <b>2008</b> ,		1
33	Transactions are back---but are they the same?. <i>ACM SIGACT News</i> , <b>2008</b> , 39, 48-58	0.3	16
32	Tree-Based Analysis of Mesh Overlays for Peer-to-Peer Streaming. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 126-139	0.9	7
31	Toward a Theory of Input Acceptance for Transactional Memories. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 527-533	0.9	14
30	From causal to z-linearizable transactional memory <b>2007</b> ,		15
29	The "art" of programming gossip-based systems. <i>Operating Systems Review (ACM)</i> , <b>2007</b> , 41, 37-42	0.8	14
28	Time-based transactional memory with scalable time bases <b>2007</b> ,		62
27	Dynamic Load Sharing in Peer-to-Peer Systems: When Some Peers Are More Equal than Others. <i>IEEE Internet Computing</i> , <b>2007</b> , 11, 53-61	2.4	15
26	Stabilizing Peer-to-Peer Spatial Filters <b>2007</b> ,		12
25	Content-Based Publish/Subscribe Using Distributed R-Trees. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 537-548	0.9	12
24	Adaptive Load Balancing for DHT Lookups. <i>Computer Communications and Networks (IC3N), Proceedings of the IEEE International Conference on</i> , <b>2006</b> ,		14
23	A Lazy Snapshot Algorithm with Eager Validation. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 284-298	0.9	105

22	Design choices for content distribution in P2P networks. <i>Computer Communication Review</i> , <b>2005</b> , 35, 29-40	1.4	8
21	Peer-to-Peer Distribution Architectures Providing Uniform Download Rates. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 1083-1096	0.9	
20	Semantic Peer-to-Peer Overlays for Publish/Subscribe Networks. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 1194-1204	0.9	29
19	Performance Analysis of Peer-to-Peer Networks for File Distribution. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 1-10	0.9	12
18	Efficient search in unstructured peer-to-peer networks. <i>European Transactions on Telecommunications</i> , <b>2004</b> , 15, 535-548		25
17	Experiences, strategies, and challenges in building fault-tolerant CORBA systems. <i>IEEE Transactions on Computers</i> , <b>2004</b> , 53, 497-511	2.5	60
16	Automatic detection and masking of nonatomic exception handling. <i>IEEE Transactions on Software Engineering</i> , <b>2004</b> , 30, 547-560	3.5	18
15	HIERARCHICAL PEER-TO-PEER SYSTEMS. <i>Parallel Processing Letters</i> , <b>2003</b> , 13, 643-657	0.3	48
14	Scalable filtering of XML data for Web services. <i>IEEE Internet Computing</i> , <b>2003</b> , 7, 49-57	2.4	11
13	The many faces of publish/subscribe. <i>ACM Computing Surveys</i> , <b>2003</b> , 35, 114-131	13.4	1728
12	Advanced concurrency control in Java. <i>Concurrency Computation Practice and Experience</i> , <b>2002</b> , 14, 261-285		3
11	Efficient filtering of XML documents with XPath expressions. <i>VLDB Journal</i> , <b>2002</b> , 11, 354-379	3.9	108
10	Tree Pattern Aggregation for Scalable XML Data Dissemination <b>2002</b> , 826-837		28
9	Experiences with object group systems. <i>Software - Practice and Experience</i> , <b>2000</b> , 30, 1375-1404	2.5	4
8	Replication of CORBA Objects. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 254-276	0.9	11
7	Putting OO distributed programming to work. <i>Communications of the ACM</i> , <b>1999</b> , 42, 97-101	2.5	2
6	Replicating CORBA Objects: A Marriage between Active and Passive Replication <b>1999</b> , 375-387		6
5	The implementation of a CORBA object group service. <i>Theory and Practice of Object Systems</i> , <b>1998</b> , 4, 93-105		26

4	System support for object groups. <i>ACM SIGPLAN Notices</i> , <b>1998</b> , 33, 244-258	0.2	6
3	The implementation of a CORBA object group service <b>1998</b> , 4, 93		5
2	A Lightweight MapReduce Framework for Secure Processing with SGX		1
1	P2P Information Lookup, Collection, and Distribution in Mobile Ad-Hoc Networks1-25		