Distributed GraphLab

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Citation Report

#	Article	IF	Citations
1	Facilitating real-time graph mining. , 2012, , .		32
2	Transparent user models for personalization. , 2012, , .		14
3	Coflow. , 2012, , .		248
4	Massively Parallel Databases and MapReduce Systems. Foundations and Trends in Databases, 2012, 5, 1-104.	4.1	28
5	Supporting Bulk Synchronous Parallelism in Map-Reduce Queries. , 2012, , .		3
6	Scalable similarity-based neighborhood methods with MapReduce. , 2012, , .		31
7	Scalable Coordinate Descent Approaches to Parallel Matrix Factorization for Recommender Systems. , 2012, , .		144
8	Improving large graph processing on partitioned graphs in the cloud. , 2012, , .		67
9	Machine learning for big data. , 2013, , .		26
10	Beyond myopic inference in big data pipelines. , 2013, , .		3
11	TurboGraph. , 2013, , .		192
12	System G Data Store: Big, Rich Graph Data Analytics in the Cloud. , 2013, , .		5
13	Shark. , 2013, , .		249
14	An evaluation study of BigData frameworks for graph processing. , 2013, , .		42
15	Big graph mining. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2013, 14, 29-36.	3.2	47
16	Scalable high-dimensional indexing with Hadoop. , 2013, , .		4
17	A hypergraph-partitioned vertex programming approach for large-scale consensus optimization. , 2013, , .		7
18	Distributed confidence-weighted classification on MapReduce. , 2013, , .		4

#	Article	IF	Citations
19	Paradigms for Realizing Machine Learning Algorithms. Big Data, 2013, 1, 207-214.	2.1	22
20	Machine learning on Big Data. , 2013, , .		17
21	Scalable Flow-Based Community Detection for Large-Scale Network Analysis. , 2013, , .		19
22	A Failure Recovery Solution for Transplanting High-Performance Data-Intensive Algorithms from the Cluster to the Cloud. , 2013, , .		3
23	ConMR: Concurrent MapReduce Programming Model for Large Scale Shared-Data Applications. , 2013, , .		3
24	PAGE. , 2013, , .		5
25	On-line learning gossip algorithm in multi-agent systems with local decision rules. , 2013, , .		4
26	Memory or Time: Performance Evaluation for Iterative Operation on Hadoop and Spark. , 2013, , .		64
27	An Empirical Analysis of Topic Modeling for Mining Cancer Clinical Notes. , 2013, , .		20
28	JA-BE-JA: A Distributed Algorithm for Balanced Graph Partitioning. , 2013, , .		65
29	Efficiently extracting frequent subgraphs using MapReduce. , 2013, , .		17
30	The family of mapreduce and large-scale data processing systems. ACM Computing Surveys, 2013, 46, 1-44.	16.1	127
31	Realtime analysis of information diffusion in social media. Proceedings of the VLDB Endowment, 2013, 6, 1416-1421.	2.1	21
32	WTF. , 2013, , .		302
33	A first view of exedra. , 2013, , .		2
34	From "think like a vertex" to "think like a graph". Proceedings of the VLDB Endowment, 2013, 7, 193-204.	2.1	253
35	Supporting feature location and mining of software repositories on the Amazon EC2. , 2013, , .		0
36	Early experiences in using a domain-specific language for large-scale graph analysis. , 2013, , .		3

#	Article	IF	Citations
37	Ligra. , 2013, , .		438
38	GAPfm. , 2013, , .		12
39	Towards systematic parallel programming of graph problems via tree decomposition and tree parallelism. , 2013, , .		0
40	Entity disambiguation in anonymized graphs using graph kernels. , 2013, , .		32
41	Mizan. , 2013, , .		211
42	LFGraph. , 2013, , .		48
43	Towards GPU-Accelerated Large-Scale Graph Processing in the Cloud. , 2013, , .		11
44	EvoMatch: An Evolutionary Algorithm for Inferring Schematic Correspondences. Lecture Notes in Computer Science, 2013, , 1-26.	1.0	1
45	Ligra. ACM SIGPLAN Notices, 2013, 48, 135-146.	0.2	196
46	GraphBuilder. , 2013, , .		69
47	Fast Quasi-biclique Mining with Giraph. , 2013, , .		4
48	Ontology-Based Recommender for Distributed Machine Learning Environment. , 2013, , .		0
49	Feliss: Flexible distributed computing framework with light-weight checkpointing. , 2013, , .		1
50	Issues in big data testing and benchmarking. , 2013, , .		19
51	Efficient data partitioning model for heterogeneous graphs in the cloud. , 2013, , .		31
52	Top-K aggregation over a large graph using shared-nothing systems. , 2013, , .		2
53	"All roads lead to Rome". , 2013, , .		40
54	Distributed matrix factorization with mapreduce using a series of broadcast-joins. , 2013, , .		28

#	Article	IF	Citations
55	MASSIVELY DISTRIBUTED CONCEPT DRIFT HANDLING IN LARGE NETWORKS. International Journal of Modeling, Simulation, and Scientific Computing, 2013, 16, 1350021.	0.9	2
56	i2MapReduce. , 2013, , .		9
57	Fast iterative graph computation with block updates. Proceedings of the VLDB Endowment, 2013, 6, 2014-2025.	2.1	42
58	Optimization for iterative queries on MapReduce. Proceedings of the VLDB Endowment, 2013, 7, 241-252.	2.1	12
59	G-path. , 2013, , .		9
60	Mammoth. , 2013, , .		5
61	Evaluation and Analysis of Distributed Graph-Parallel Processing Frameworks. Journal of Cyber Security and Mobility, 2014, 3, 289-316.	0.7	19
62	MOCgraph. Proceedings of the VLDB Endowment, 2014, 8, 377-388.	2.1	32
63	Beyond Batch Processing: Towards Real-Time and Streaming Big Data. Computers, 2014, 3, 117-129.	2.1	81
64	Scaling Distributed Machine Learning with the Parameter Server. , 2014, , .		552
65	Distributed graph simulation. Proceedings of the VLDB Endowment, 2014, 7, 1083-1094.	2.1	35
66	Auto-approximation of graph computing. Proceedings of the VLDB Endowment, 2014, 7, 1833-1844.	2.1	20
67	Parallel Breadth First Search on GPU clusters. , 2014, , .		15
68	An Information-Theoretic View of Cloud Workloads. , 2014, , .		4
69	An initial study of predictive machine learning analytics on large volumes of historical data for power system applications. , 2014, , .		43
70	SOM Clustering Using Spark-MapReduce. , 2014, , .		16
71	Efficient cohesive subgraphs detection in parallel. , 2014, , .		41
72	Analyzing Discourse and Text Complexity for Learning and Collaborating. Studies in Computational Intelligence, 2014, , .	0.7	57

#	Article	IF	Citations
73	Palantir: Reseizing Network Proximity in Large-Scale Distributed Computing Frameworks Using SDN. , 2014, , .		5
74	A scalable machine learning online service for big data real-time analysis. , 2014, , .		28
75	Big data machine learning and graph analytics: Current state and future challenges. , 2014, , .		18
76	Fast Iterative Graph Computation: A Path Centric Approach. , 2014, , .		63
77	Tachyon. , 2014, , .		174
78	Knowledge expansion over probabilistic knowledge bases. , 2014, , .		43
79	MMap: Fast billion-scale graph computation on a PC via memory mapping. , 2014, 2014, 159-164.		37
80	DimmWitted. Proceedings of the VLDB Endowment, 2014, 7, 1283-1294.	2.1	78
81	An experimental comparison of pregel-like graph processing systems. Proceedings of the VLDB Endowment, 2014, 7, 1047-1058.	2.1	147
82	GRapid: A compilation and runtime framework for rapid prototyping of graph applications on many-core processors. , 2014, , .		4
83	MyBSP: An Iterative Processing Framework Based on the Cloud Platform for Graph Data. , 2014, , .		1
84	Distributed algorithms for k-truss decomposition. , 2014, , .		36
85	Computing personalized PageRank quickly by exploiting graph structures. Proceedings of the VLDB Endowment, 2014, 7, 1023-1034.	2.1	46
86	The more the merrier. Proceedings of the VLDB Endowment, 2014, 8, 449-460.	2.1	58
87	GRAPHiQL: A graph intuitive query language for relational databases. , 2014, , .		16
88	Advanced architectures distributed systems for the implementation of neural networks. , 2014, , .		0
89	Distributed Adaptive Importance Sampling on graphical models using MapReduce. , 2014, , .		3
90	MapReduce guided approximate inference over graphical models. , 2014, , .		1

#	Article	IF	Citations
91	Graph analytics and storage. , 2014, , .		16
92	A Comparison Study of Graph Data Processing Based on MyBSP and MapReduce. , 2014, , .		0
93	Computation and communication efficient graph processing with distributed immutable view. , 2014, , .		51
94	Active semi-supervised learning using sampling theory for graph signals. , 2014, , .		88
95	From graphs to tables the design of scalable systems for graph analytics. , 2014, , .		2
96	Asymmetry in Large-Scale Graph Analysis, Explained. , 2014, , .		3
97	Using semijoin programs to solve traversal queries in graph databases. , 2014, , .		2
98	Distributed Graph Summarization. , 2014, , .		23
99	Simplifying Scalable Graph Processing with a Domain-Specific Language. , 2014, , .		8
100	Efficient Face Detection by Leveraging Knowledge from Large-Scale Photos. , 2014, , .		1
101	Balanced graph edge partition. , 2014, , .		101
102	KLA. , 2014, , .		28
103	TensorDB. , 2014, , .		15
104	Efficient Static and Dynamic In-Database Tensor Decompositions on Chunk-Based Array Stores. , 2014, , .		7
105	Scalable Distributed Belief Propagation with Prioritized Block Updates. , 2014, , .		9
106	Parallel Community Detection for Cross-Document Coreference. , 2014, , .		10
107	Beehive: A Framework for Graph Data Analytics on Cloud Computing Platforms. , 2014, , .		4
108	Querying big graphs within bounded resources. , 2014, , .		34

#	Article	IF	Citations
109	Benchmarking graph-processing platforms. , 2014, , .		38
110	GraphIVE: Heterogeneity-Aware Adaptive Graph Partitioning in GraphLab. , 2014, , .		6
111	Comparing the staples in latent factor models for recommender systems. , 2014, , .		3
112	ASPIRE. , 2014, , .		40
113	Scaling data mining in massively parallel dataflow systems. , 2014, , .		0
114	GatorCloud. , 2014, , .		2
115	Functional programming for dynamic and large data with self-adjusting computation. , 2014, , .		5
116	Bipartite-oriented distributed graph partitioning for big learning. , 2014, , .		24
117	Systems for big-graphs. Proceedings of the VLDB Endowment, 2014, 7, 1709-1710.	2.1	30
118	Hybrid parallelization strategies for large-scale machine learning in SystemML. Proceedings of the VLDB Endowment, 2014, 7, 553-564.	2.1	61
120	RecSys Challenge 2014. , 2014, , .		2
121	Characterizing Application Memory Error Vulnerability to Optimize Datacenter Cost via Heterogeneous-Reliability Memory. , 2014, , .		93
122	Connected Components in MapReduce and Beyond. , 2014, , .		35
123	Replication-Based Fault-Tolerance for Large-Scale Graph Processing. , 2014, , .		37
124	An adaptive switching scheme for iterative computing in the cloud. Frontiers of Computer Science, 2014, 8, 872-884.	1.6	11
125	Modeling and Simulation in Performance Optimization of Big Data Processing Frameworks. IEEE Cloud Computing, 2014, 1, 14-19.	5.3	24
126	An improved memory management scheme for large scale graph computing engine GraphChi. , 2014, , .		1
127	Vertexica. Proceedings of the VLDB Endowment, 2014, 7, 1669-1672.	2.1	27

#	Article	IF	Citations
128	Big Graph Analytics. , 2014, , .		38
129	Biclustering using Spark-MapReduce. , 2014, , .		8
130	Medusa: Simplified Graph Processing on GPUs. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1543-1552.	4.0	186
131	Maiter: An Asynchronous Graph Processing Framework for Delta-Based Accumulative Iterative Computation. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 2091-2100.	4.0	78
132	Scaling Irregular Applications through Data Aggregation and Software Multithreading. , 2014, , .		19
133	How Well Do Graph-Processing Platforms Perform? An Empirical Performance Evaluation and Analysis. , 2014, , .		79
134	Fast top-k path-based relevance query on massive graphs. , 2014, , .		9
135	Finding influencers in networks using social capital. Social Network Analysis and Mining, 2014, 4, 1.	1.9	9
136	LightGraph: Lighten Communication in Distributed Graph-Parallel Processing. , 2014, , .		17
137	Executing dynamic data-graph computations deterministically using chromatic scheduling. , 2014, , .		32
138	Hippo: An enhancement of pipeline-aware in-memory caching for HDFS. , 2014, , .		5
139	Toward Scalable Systems for Big Data Analytics: A Technology Tutorial. IEEE Access, 2014, 2, 652-687.	2.6	965
140	An Efficient Graph Processing System. Lecture Notes in Computer Science, 2014, , 401-412.	1.0	1
141	GLog: A high level graph analysis system using MapReduce. , 2014, , .		10
142	Challenges of Big Data analysis. National Science Review, 2014, 1, 293-314.	4.6	954
143	Streaming Big Data Processing in Datacenter Clouds. IEEE Cloud Computing, 2014, 1, 78-83.	5.3	186
144	Continuous pattern detection over billion-edge graph using distributed framework. , 2014, , .		40
145	Maximal clique enumeration for large graphs on hadoop framework. , 2014, , .		5

#	Article	IF	Citations
146	Asylter: tolerating computational skew of synchronous iterative applications via computing decomposition. Knowledge and Information Systems, 2014, 41, 379-400.	2.1	3
147	Blazes: Coordination analysis for distributed programs. , 2014, , .		19
148	Fine-grained data partitioning framework for distributed database systems. , 2014, , .		4
149	Chronos. , 2014, , .		92
150	Fast failure recovery in distributed graph processing systems. Proceedings of the VLDB Endowment, 2014, 8, 437-448.	2.1	31
151	Pregelix. Proceedings of the VLDB Endowment, 2014, 8, 161-172.	2.1	79
152	LogGP. Proceedings of the VLDB Endowment, 2014, 7, 1917-1928.	2.1	45
153	Performance Modeling of Computation and Communication Tradeoffs in Vertex-Centric Graph Processing Clusters. , 2014, , .		3
154	NScale. Proceedings of the VLDB Endowment, 2014, 7, 1673-1676.	2.1	23
155	Blogel. Proceedings of the VLDB Endowment, 2014, 7, 1981-1992.	2.1	168
156	NOMAD. Proceedings of the VLDB Endowment, 2014, 7, 975-986.	2.1	75
157	Beyond graphs. Performance Evaluation Review, 2014, 41, 94-97.	0.4	25
158	CINET 2.0: A CyberInfrastructure for Network Science. , 2014, , .		3
159	Building blocks for graph based network analysis. , 2014, , .		1
160	Large-scale distributed graph computing systems. Proceedings of the VLDB Endowment, 2014, 8, 281-292.	2.1	107
161	Large-scale graph analytics in Aster 6. Proceedings of the VLDB Endowment, 2014, 7, 1405-1416.	2.1	22
162	Pregel algorithms for graph connectivity problems with performance guarantees. Proceedings of the VLDB Endowment, 2014, 7, 1821-1832.	2.1	65
163	Scalability of Stochastic Gradient Descent based on â€œSmartâ€•Sampling Techniques. Procedia Computer Science, 2015, 53, 308-315.	1.2	3

#	Article	IF	Citations
164	GraPS. , 2015, , .		7
165	Bridging the gap for retrieving DBpedia data. , 2015, , .		1
166	Hardware accelerator design for data centers. , 2015, , .		4
167	CRONO: A Benchmark Suite for Multithreaded Graph Algorithms Executing on Futuristic Multicores. , 2015, , .		69
168	A novel pruning model of deep learning for large-scale distributed data processing. , 2015, , .		1
169	Vertex-centric Parallel Algorithms for Identifying Key Vertices in Large-Scale Graphs. , 2015, , .		1
170	Is Your Graph Algorithm Eligible for Nondeterministic Execution?. , 2015, , .		2
171	Cognitive Sensing in Smart Cities Using Optical Sensors. , 2015, , .		0
172	GRAPHITE. , 2015, , .		24
173	Predictive Analytics as a Security Management Tool in Virtualised Environment. , 2015, , .		0
174	Data partitioning strategies for graph workloads on heterogeneous clusters. , 2015, , .		29
175	Interruptible tasks. , 2015, , .		40
176	Zorro. , 2015, , .		32
177	Scaling Out Link Prediction with SNAPLE. , 2015, , .		0
178	Efficient iterative processing in the SciDB parallel array engine. , 2015, , .		11
179	Scaling iterative graph computations with GraphMap. , 2015, , .		23
180	PGX.D. , 2015, , .		59
181	GraphBIG. , 2015, , .		99

#	Article	IF	Citations
182	Achieving up to zero communication delay in BSP-based graph processing via vertex categorization. , 2015, , .		1
183	Agent and Spatial Based Parallelization of Biological Network Motif Search. , 2015, , .		3
184	Effective Techniques for Message Reduction and Load Balancing in Distributed Graph Computation. , 2015, , .		85
185	DIVa. , 2015, , .		10
186	Study on Partitioning Real-World Directed Graphs of Skewed Degree Distribution. , 2015, , .		2
187	SYNC or ASYNC: time to fuse for distributed graph-parallel computation. ACM SIGPLAN Notices, 2015, 50, 194-204.	0.2	27
188	Declarative Patterns for Imperative Distributed Graph Algorithms. , 2015, , .		0
189	BiFennel: Fast Bipartite Graph Partitioning Algorithm for Big Data. , 2015, , .		0
190	The Acquisition of Context Data of Study Process and their Application in Classroom and Intelligent Tutoring Systems. Applied Computer Science, 2015, 18, 27-32.	0.3	2
191	Keys for graphs. Proceedings of the VLDB Endowment, 2015, 8, 1590-1601.	2.1	48
192	NUMA-aware graph-structured analytics. ACM SIGPLAN Notices, 2015, 50, 183-193.	0.2	65
193	Optimization of asynchronous graph processing on GPU with hybrid coloring model. ACM SIGPLAN Notices, 2015, 50, 271-272.	0.2	1
194	Partitioning Uncertain Workflows. SSRN Electronic Journal, 0, , .	0.4	0
195	Managed communication and consistency for fast data-parallel iterative analytics. , 2015, , .		65
196	Text Classification Kernels for Quality Prediction over the C3 Data Set. , 2015, , .		3
197	L-Graph. , 2015, , .		2
198	K-core decomposition of large networks on a single PC. Proceedings of the VLDB Endowment, 2015, 9, 13-23.	2.1	127
199	In-Memory Big Data Management and Processing: A Survey. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1920-1948.	4.0	297

#	Article	IF	Citations
201	A Distributed Algorithm for Large-Scale Graph Partitioning. ACM Transactions on Autonomous and Adaptive Systems, 2015, 10, 1-24.	0.4	23
202	Complex Network Analysis on Distributed Systems. , 2015, , .		4
203	Graph analytics using vertica relational database. , 2015, , .		22
204	Accelerating all-pairs shortest path using a message-passing reconfigurable architecture. , 2015, , .		3
205	Panopticon: A lock broker architecture for scalable transactions in the datacenter. , 2015, , .		0
206	Scale Up vs. Scale Out in Cloud Storage and Graph Processing Systems. , 2015, , .		1
207	An Algorithmic Approach to Communication Reduction in Parallel Graph Algorithms. , 2015, , .		2
208	Practical message-passing framework for large-scale combinatorial optimization. , 2015, , .		2
209	BSSync: Processing Near Memory for Machine Learning Workloads with Bounded Staleness Consistency Models. , 2015, , .		32
210	Comparison of Single Source Shortest Path Algorithms on Two Recent Asynchronous Many-task Runtime Systems. , 2015, , .		1
211	Employing in-memory data grids for distributed graph processing. , 2015, , .		4
212	Lowering the complexity of k-means clustering by BFS-dijkstra method for graph computing. , 2015, , .		0
213	Edge importance identification for energy efficient graph processing. , 2015, , .		5
214	Efficient parallelization of path planning workload on single-chip shared-memory multicores. , 2015, , .		4
215	Architectural requirements for energy efficient execution of graph analytics applications. , 2015, , .		9
216	Incremental Partitioning of Large Time-Evolving Graphs. , 2015, , .		2
217	GossipMap. , 2015, , .		19
218	Gaussian Mixture Models Use-Case. , 2015, , .		7

#	Article	IF	Citations
219	Optimizing CPU cache performance for Pregel-like graph computation. , 2015, , .		2
220	What to Learn Next: Recommending Commands in a Feature-Rich Environment. , 2015, , .		12
221	GraphSC: Parallel Secure Computation Made Easy. , 2015, , .		68
222	An optimized cloud based big data processing mechanism using Self-Organizing Map in Hadoop environments. , 2015, , .		0
223	Querying Web-Scale Information Networks Through Bounding Matching Scores. , 2015, , .		17
224	DISTINGER: A distributed graph data structure for massive dynamic graph processing. , 2015, , .		13
225	Industrial Analytics Pipelines. , 2015, , .		2
226	MatrixMap: Programming Abstraction and Implementation of Matrix Computation for Big Data Applications. , 2015, , .		3
227	G <scp>ra</scp> M. , 2015, , .		80
229	Locality-aware vertex scheduling for GPU-based graph computation. , 2015, , .		2
230	ScaleGraph: A high-performance library for billion-scale graph analytics. , 2015, , .		5
231	Accelerating collaborative filtering using concepts from high performance computing. , 2015, , .		25
232	Scalable adaptive label propagation in Grappa. , 2015, , .		3
233	<inline-formula><tex-math notation="LaTeX">^{2}</tex-math><alternatives><inline-graphic xlink:type="simple" xlink:href="zhang-ieq1-2397438.gif"/></alternatives></inline-formula>MapReduce: Incremental MapReduce for Mining Evolving Big Data. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1906-1919.	4.0	40
234	A Parallel and Incremental Approach for Data-Intensive Learning of Bayesian Networks. IEEE Transactions on Cybernetics, 2015, 45, 2890-2904.	6.2	45
235	PAGE: A Partition Aware Engine for Parallel Graph Computation. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 518-530.	4.0	25
236	Bipartite-Oriented Distributed Graph Partitioning for Big Learning. Journal of Computer Science and Technology, 2015, 30, 20-29.	0.9	8
237	SIMD parallel MCMC sampling with applications for big-data Bayesian analytics. Computational Statistics and Data Analysis, 2015, 88, 75-99.	0.7	16

#	Article	IF	Citations
238	Efficient graph computation on hybrid CPU and GPU systems. Journal of Supercomputing, 2015, 71, 1563-1586.	2.4	22
239	An architecture and platform for developing distributed recommendation algorithms on large-scale social networks. Journal of Information Science, 2015, 41, 686-704.	2.0	24
240	Optimistic Recovery for Iterative Dataflows in Action. , 2015, , .		13
241	Quantifying Communication in Graph Analytics. Lecture Notes in Computer Science, 2015, , 472-487.	1.0	3
242	FACADE. , 2015, , .		61
243	A scalable processing-in-memory accelerator for parallel graph processing. , 2015, , .		467
244	Distributed Community Detection with the WCC Metric. , 2015, , .		10
245	Big Data Provenance Analysis and Visualization. , 2015, , .		8
247	ExPregel: a new computational model for largeâ€scale graph processing. Concurrency Computation Practice and Experience, 2015, 27, 4954-4969.	1.4	16
248	Heterogeneous Environment Aware Streaming Graph Partitioning. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1560-1572.	4.0	31
250	PowerLyra. , 2015, , .		201
251	DSP-CC-: I/O Efficient Parallel Computation of Connected Components in Billion-Scale Networks. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2658-2671.	4.0	4
252	Big Data in product lifecycle management. International Journal of Advanced Manufacturing Technology, 2015, 81, 667-684.	1.5	406
253	Smart Cache: An Optimized MapReduce Implementation of Frequent Itemset Mining. , 2015, , .		6
254	Fine-Grained Knowledge Sharing in Collaborative Environments. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2163-2174.	4.0	11
255	A Hybrid Approach to Processing Big Data Graphs on Memory-Restricted Systems. , 2015, , .		3
256	COSNET. , 2015, , .		209
257	Giraph unchained. Proceedings of the VLDB Endowment, 2015, 8, 950-961.	2.1	119

#	Article	IF	Citations
258	Analysis of Subgraph-Centric Distributed Shortest Path Algorithm. , 2015, , .		2
259	Spark SQL. , 2015, , .		855
260	An Empirical Performance Evaluation of GPU-Enabled Graph-Processing Systems. , 2015, , .		12
261	“Anti-Caching”-based elastic memory management for Big Data. , 2015, , .		4
262	Data X-Ray. , 2015, , .		55
263	Building Discriminative User Profiles for Large-scale Content Recommendation. , 2015, , .		13
264	Optimization of asynchronous graph processing on GPU with hybrid coloring model. , 2015, , .		13
265	Design and evaluation of a novel dataflow based bigdata solution. , 2015, , .		0
266	Community Level Diffusion Extraction. , 2015, , .		36
267	DjiNN and Tonic. , 2015, , .		121
268	Speculative Approximations for Terascale Distributed Gradient Descent Optimization. , 2015, , .		15
269	Big data analytics: a literature review. Journal of Management Analytics, 2015, 2, 175-201.	1.6	67
270	Analysis of Large-Scale Networks Using High Performance Technology (Vkontakte Case Study). Communications in Computer and Information Science, 2015, , 531-541.	0.4	8
271	OpenMP: Heterogenous Execution and Data Movements. Lecture Notes in Computer Science, 2015, , .	1.0	0
272	A framework for big data as a service. , 2015, , .		5
273	Loop and data transformations for sparse matrix code. , 2015, , .		60
274	HAGP: A Hub-Centric Asynchronous Graph Processing Framework for Scale-Free Graph. , 2015, , .		1
275	Ringo. , 2015, 2015, 1105-1110.		20

#	Article	IF	Citations
276	Harp: Collective Communication on Hadoop. , 2015, , .		13
277	Real-Time Multi-Criteria Social Graph Partitioning. , 2015, , .		30
278	Blind men and an elephant coalescing open-source, academic, and industrial perspectives on BigData. , 2015, , .		4
279	NUMA-aware graph-structured analytics. , 2015, , .		115
280	SYNC or ASYNC: time to fuse for distributed graph-parallel computation. , 2015, , .		61
281	Fast Iterative Graph Computation with Resource Aware Graph Parallel Abstractions. , 2015, , .		23
282	Distributed Programming over Time-Series Graphs. , 2015, , .		10
283	LLAMA: Efficient graph analytics using Large Multiversioned Arrays. , 2015, , .		85
284	VENUS: Vertex-centric streamlined graph computation on a single PC. , 2015, , .		66
285	Dynamic interaction graphs with probabilistic edge decay. , 2015, , .		10
286	Efficient sample generation for scalable meta learning. , 2015, , .		7
287	Cloud Resource Orchestration Programming: Overview, Issues, and Directions. IEEE Internet Computing, 2015, 19, 46-56.	3.2	78
288	Petuum: A New Platform for Distributed Machine Learning on Big Data. IEEE Transactions on Big Data, 2015, 1, 49-67.	4.4	290
289	Research Directions for Big Data Graph Analytics. , 2015, , .		17
290	Thinking Like a Vertex. ACM Computing Surveys, 2015, 48, 1-39.	16.1	216
291	Clustering Large Undirected Graphs on External Memory. , 2015, , .		0
292	CloudFlow: A data-aware programming model for cloud workflow applications on modern HPC systems. Future Generation Computer Systems, 2015, 51, 98-110.	4.9	13
293	A task-level adaptive MapReduce framework for real-time streaming data in healthcare applications. Future Generation Computer Systems, 2015, 43-44, 149-160.	4.9	67

#	Article	IF	Citations
294	Psychological Forest: Predicting Human Behavior. SSRN Electronic Journal, 0, , .	0.4	9
295	A Novel Approach for Processing Big Data. International Journal of Database Management Systems, 2016, 8, 15-24.	0.2	0
296	DynamicDFEP. , 2016, , .		6
298	Computing Connected Components with linear communication cost in pregel-like systems. , 2016, , .		10
299	A scalable processing-in-memory accelerator for parallel graph processing. Computer Architecture News, 2016, 43, 105-117.	2.5	108
300	Distributed Platforms and Cloud Services: Enabling Machine Learning for Big Data. , 2016, , 139-159.		3
301	Distributed Multithreaded Breadth-First Search on Large Graphs Using DXGraph. , 2016, , .		0
302	Comparison of Edge Partitioners for Graph Processing. , 2016, , .		2
303	Executing Dynamic Data-Graph Computations Deterministically Using Chromatic Scheduling. ACM Transactions on Parallel Computing, 2016, 3, 1-31.	1.2	6
304	Ranking Anomalous High Performance Computing Sensor Data Using Unsupervised Clustering. , 2016, , .		8
305	Parallel Graph Processing on Modern Multi-core Servers: New Findings and Remaining Challenges. , 2016, , .		8
306	dmapply. Proceedings of the VLDB Endowment, 2016, 9, 1293-1304.	2.1	2
307	A Police Big Data Analytics Platform: Framework and Implications. , 2016, , .		5
308	JsFlow: Integration of Massive Streams and Batches via JSON-based Dataflow Algebra. , 2016, , .		3
309	Which metrics for vertex-cut partitioning?. , 2016, , .		5
310	Partition Aware Connected Component Computation in Distributed Systems. , 2016, , .		6
311	An Ensemble-Based Recommendation Engine for Scientific Data Transfers. , 2016, , .		1
312	Compiler Transformation to Generate Hybrid Sparse Computations. , 2016, , .		0

#	Article	IF	Citations
313	Evaluation of a PMML-based GPR scoring engine on a cloud platform and microcomputer board for smart manufacturing. , 2016, , .		3
314	Accelerating graph applications on integrated GPU platforms via instrumentation-driven optimizations. , 2016, , .		1
315	A meta-graph approach to analyze subgraph-centric distributed programming models. , 2016, , .		6
316	Datalography: Scaling datalog graph analytics on graph processing systems. , 2016, , .		10
317	Data quality: Experiences and lessons from operationalizing big data. , 2016, , .		6
318	YinMem: A distributed parallel indexed in-memory computation system for large scale data analytics. , 2016, , .		5
319	Efficient Subgraph Matching in Large Graph with Partitioning Scheme. , 2016, , .		1
320	Analysis on developmental trend of multimedia data capturing and transmission mode and the applications on interaction field. , 2016, , .		0
321	HPGraph: A High Parallel Graph Processing System Based on Flash Array. , 2016, , .		0
322	Graph Colouring as a Challenge Problem for Dynamic Graph Processing on Distributed Systems. , 2016, , .		15
323	DAOS and Friends: A Proposal for an Exascale Storage System. , 2016, , .		48
324	G-Store: High-Performance Graph Store for Trillion-Edge Processing. , 2016, , .		27
325	SMARTPARTITION: Efficient Partitioning for Natural Graphs. , 2016, , .		1
326	Compression-aware graph computation. , 2016, , .		2
327	Distributed streaming reconstruction of information diffusion. , 2016, , .		1
328	On Distributed Deep Network for Processing Large-Scale Sets of Complex Data. , 2016, , .		2
329	BLADYG. , 2016, , .		1
330	Addressing the straggler problem for iterative convergent parallel ML. , 2016, , .		81

#	Article	IF	Citations
331	PipeGen. , 2016, , .		38
332	Using domain-specific languages for analytic graph databases. Proceedings of the VLDB Endowment, 2016, 9, 1257-1268.	2.1	14
333	NetworKit: A tool suite for large-scale complex network analysis. Network Science, 2016, 4, 508-530.	0.8	140
334	A survey of cloud-based network intrusion detection analysis. Human-centric Computing and Information Sciences, 2016, 6, .	6.1	69
335	Benchmarking the graphulo processing framework. , 2016, , .		3
336	Visual Reasoning Indexing and Retrieval Using In-Memory Computing. International Journal of Semantic Computing, 2016, 10, 299-322.	0.4	4
337	eSplash: Efficient speculation in large scale heterogeneous computing systems. , 2016, , .		14
338	Perspective: Materials informatics and big data: Realization of the â€œfourth paradigmâ€•of science in materials science. APL Materials, 2016, 4, 053208.	2.2	712
339	Supporting property graphs in apache giraph. , 2016, , .		0
340	Synergistic Analysis of Evolving Graphs. Transactions on Architecture and Code Optimization, 2016, 13, 1-27.	1.6	36
341	Optimizing Intelligent Reduction Techniques for Big Data. Studies in Big Data, 2016, , 49-70.	0.8	3
342	New Horizons for a Data-Driven Economy. , 2016, , .		104
343	An I/O-Efficient Buffer Batch Replacement Policy for Update-Intensive Graph Databases. Lecture Notes in Computer Science, 2016, , 234-248.	1.0	0
344	A streaming graph partitioning approach on imbalance cluster. , 2016, , .		0
345	Big Data Usage. , 2016, , 143-165.		13
346	Nomadic Computing for Big Data Analytics. Computer, 2016, 49, 52-60.	1.2	3
347	Parallel Brain Simulator: A Multi-scale and Parallel Brain-Inspired Neural Network Modeling and Simulation Platform. Cognitive Computation, 2016, 8, 967-981.	3.6	14
348	Parallel Graph Processing. , 2016, , .		11

#	Article	IF	Citations
349	iGraph: an incremental data processing system for dynamic graph. Frontiers of Computer Science, 2016, 10, 462-476.	1.6	36
350	Characterizing gene sets using discriminative random walks with restart on heterogeneous biological networks. Bioinformatics, 2016, 32, 2167-2175.	1.8	38
351	Techniques and Systems for Large Dynamic Graphs. , 2016, , .		3
352	STRADS. , 2016, , .		34
353	Big data analytics in bioinformatics: architectures, techniques, tools and issues. Network Modeling Analysis in Health Informatics and Bioinformatics, 2016, 5, 1.	1.2	28
354	A Multi-level Traceability System Based on GraphLab. Procedia Computer Science, 2016, 91, 971-977.	1.2	5
355	I-HASTREAM: Density-Based Hierarchical Clustering of Big Data Streams and Its Application to Big Graph Analytics Tools. , 2016, , .		6
356	Debugging OpenStack Problems Using a State Graph Approach. , 2016, , .		3
357	NScaleSpark. , 2016, , .		4
358	AG-MIC: Azure-Based Generalized Flow for Medical Image Classification. IEEE Access, 2016, 4, 5243-5257.	2.6	14
359	iGiraph: A Cost-Efficient Framework for Processing Large-Scale Graphs on Public Clouds. , 2016, , .		9
360	Elastic Partition Placement for Non-stationary Graph Algorithms. , 2016, , .		3
361	Graph Analytics Through Fine-Grained Parallelism. , 2016, , .		11
362	Proxy-Guided Load Balancing of Graph Processing Workloads on Heterogeneous Clusters. , 2016, , .		12
363	A communication-efficient model of sparse neural network for distributed intelligence. , 2016, , .		0
364	Distributed Set Reachability. , 2016, , .		12
365	Large-Scale Processing Systems of Structured Data. SpringerBriefs in Computer Science, 2016, , 41-52.	0.2	0
366	Large-Scale Stream Processing Systems. SpringerBriefs in Computer Science, 2016, , 75-89.	0.2	0

#	Article	IF	Citations
367	Think like a vertex, behave like a function! a functional DSL for vertex-centric big graph processing. , 2016, , .		7
368	Improving the efficiency of IRWLS SVMs using parallel Cholesky factorization. Pattern Recognition Letters, 2016, 84, 91-98.	2.6	7
369	Macaca: A Scalable and Energy-Efficient Platform for Coupling Cloud Computing with Distributed Embedded Computing. , 2016, , .		1
370	sAXI: A High-Efficient Hardware Inter-Node Link in ARM Server for Remote Memory Access. , 2016, , .		2
371	A Fault-Tolerant Framework for Asynchronous Iterative Computations in Cloud Environments. , 2016, , .		10
372	A general and fast distributed system for large-scale dynamic programming applications. Parallel Computing, 2016, 60, 1-21.	1.3	4
373	Open Source Big Data Analytics Frameworks Written in Scala. , 2016, , .		10
374	Energy efficiency of large scale graph processing platforms. , 2016, , .		2
376	A Query Processing Framework for Array-Based Computations. Lecture Notes in Computer Science, 2016, , 240-254.	1.0	1
377	General-Purpose Big Data Processing Systems. SpringerBriefs in Computer Science, 2016, , 15-39.	0.2	3
378	GraphIn: An Online High Performance Incremental Graph Processing Framework. Lecture Notes in Computer Science, 2016, , 319-333.	1.0	38
379	Large-Scale Graph Processing Systems. SpringerBriefs in Computer Science, 2016, , 53-73.	0.2	2
380	A general-purpose query-centric framework for querying big graphs. Proceedings of the VLDB Endowment, 2016, 9, 564-575.	2.1	30
381	GoDB: From Batch Processing to Distributed Querying over Property Graphs. , 2016, , .		3
382	Parallel Processing Systems for Big Data: A Survey. Proceedings of the IEEE, 2016, 104, 2114-2136.	16.4	71
383	A Collective Communication Layer for the Software Stack of Big Data Analytics. , 2016, , .		1
384	Graph Topology Abstraction for Distributed Path Queries. , 2016, , .		0
385	Graph Stream Summarization. , 2016, , .		55

#	Article	IF	Citations
386	Context Matters. , 2016, , .		2
387	The shortest path is not always a straight line. Proceedings of the VLDB Endowment, 2016, 9, 672-683.	2.1	17
388	Incremental Query Processing on Big Data Streams. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2998-3012.	4.0	24
389	Towards Fast Overlapping Community Detection. , 2016, , .		3
390	Accelerated learning of discriminative spatio-temporal features for action recognition. , 2016, , .		0
391	Visual Reasoning Indexing and Retrieval Using In-memory Computing. , 2016, , .		1
392	Hybrid Pulling/Pushing for I/O-Efficient Distributed and Iterative Graph Computing. , 2016, , .		24
393	Optimizing Indirect Memory References with milk. , 2016, , .		28
394	FairPlay: Services Migration with Lock-Free Mechanisms for Load Balancing in Cloud Architectures. , 2016, , .		3
395	SPrank. ACM Transactions on Intelligent Systems and Technology, 2017, 8, 1-34.	2.9	59
396	Implementation of PDS system with improved security and transparency under cloud environment. , 2016, , .		1
397	Efficient Processing of Large Graphs via Input Reduction. , 2016, , .		18
398	An empirical comparison of Big Graph frameworks in the context of network analysis. Social Network Analysis and Mining, 2016, 6, 1.	1.9	8
399	Mobile Computing, Internet of Things, and Big Data for Urban Informatics. , 2016, , .		3
400	Distributed Graph Path Queries Using Spark. , 2016, , .		5
401	Fast top-k search in knowledge graphs. , 2016, , .		41
402	Big Data Analytics with Datalog Queries on Spark. , 2016, 2016, 1135-1149.		81
403	Toward elastic memory management for cloud data analytics. , 2016, , .		6

#	Article	IF	Citations
404	Graph Prefetching Using Data Structure Knowledge. , 2016, , .		36
405	Regular Path Queries on Massive Graphs. , 2016, , .		10
406	Data-driven visual graph query interface construction and maintenance. Proceedings of the VLDB Endowment, 2016, 9, 984-992.	2.1	15
407	AQuA. , 2016, , .		2
408	Performance and Monetary Cost of Large-Scale Distributed Graph Processing on Amazon Cloud. , 2016, , .		1
409	GPU concurrency choices in graph analytics. , 2016, , .		8
410	LCC-Graph: A high-performance graph-processing framework with low communication costs. , 2016, , .		0
411	A comparative evaluation of open-source graph processing platforms. , 2016, , .		1
412	Big data analytics on Apache Spark. International Journal of Data Science and Analytics, 2016, 1, 145-164.	2.4	244
413	Boosting Vertex-Cut Partitioning for Streaming Graphs. , 2016, , .		16
414	Energy Efficient Architecture for Graph Analytics Accelerators. , 2016, , .		97
415	Analysing and Predicting the Runtime of Social Graphs. , 2016, , .		0
416	Load Balancing and Fault Tolerance Mechanisms for Scalable and Reliable Big Data Analytics. Computer Communications and Networks, 2016, , 189-203.	0.8	1
417	ScaLeKB: scalable learning and inference over large knowledge bases. VLDB Journal, 2016, 25, 893-918.	2.7	28
418	GraphF: An Efficient Fine-Grained Graph Processing System on Spark. , 2016, , .		0
419	Multi-species protein function prediction. , 2016, , .		2
420	An I/O-Efficient Buffer Batch Replacement Policy for Update-Intensive Graph Databases. Data Science and Engineering, 2016, 1, 231-241.	4.6	0
421	Massive graph processing on nanocomputers. , 2016, , .		3

#	Article	IF	Citations
422	Partitioning uncertain workloads. NETNOMICS: Economic Research and Electronic Networking, 2016, 17, 233-253.	0.9	0
423	Max-Min-Degree Neural Network for Centralized-Decentralized Collaborative Computing. IEICE Transactions on Communications, 2016, E99.B, 841-848.	0.4	1
424	<i>k</i>-Degree Layer-Wise Network for Geo-Distributed Computing between Cloud and IoT. IEICE Transactions on Communications, 2016, E99.B, 307-314.	0.4	1
425	Mostly-optimistic concurrency control for highly contended dynamic workloads on a thousand cores. Proceedings of the VLDB Endowment, 2016, 10, 49-60.	2.1	72
426	SystemML. Proceedings of the VLDB Endowment, 2016, 9, 1425-1436.	2.1	129
427	DjiNN and Tonic. Computer Architecture News, 2016, 43, 27-40.	2.5	9
428	Supporting On-demand Elasticity in Distributed Graph Processing. , 2016, , .		4
429	Benchmarking of Distributed Computing Engines Spark and GraphLab for Big Data Analytics. , 2016, , .		12
430	Efficient fault-tolerance for iterative graph processing on distributed dataflow systems. , 2016, , .		16
431	Ontological Pathfinding. , 2016, , .		35
432	GTS. , 2016, , .		57
433	Distributed Incremental Pattern Matching on Streaming Graphs. , 2016, , .		7
434	Computing at Massive Scale: Scalability and Dependability Challenges. , 2016, , .		21
435	A comprehensive reconfigurable computing approach to memory wall problem of large graph computation. Journal of Systems Architecture, 2016, 70, 59-69.	2.5	3
436	A survey of machine learning for big data processing. Eurasip Journal on Advances in Signal Processing, 2016, 2016, .	1.0	386
437	NScale: neighborhood-centric large-scale graph analytics in the cloud. VLDB Journal, 2016, 25, 125-150.	2.7	37
438	Scalable models for computing hierarchies in information networks. Knowledge and Information Systems, 2016, 49, 687-717.	2.1	2
439	CADIVa: cooperative and adaptive decentralized identity validation model for social networks. Social Network Analysis and Mining, 2016, 6, 1.	1.9	4

#	Article	IF	Citations
440	Big graph search: challenges and techniques. Frontiers of Computer Science, 2016, 10, 387-398.	1.6	38
441	DistR: A Distributed Method for the Reachability Query over Large Uncertain Graphs. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 3172-3185.	4.0	24
442	A streaming graph partitioning approach on imbalance cluster. , 2016, , .		2
443	VENUS: A System for Streamlined Graph Computation on a Single PC. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2230-2245.	4.0	2
444	Fast Top-K Path-Based Relevance Query on Massive Graphs. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1189-1202.	4.0	8
445	An Evaluation of Distributed Processing Models for Random Walk-Based Link Prediction Algorithms Over Social Big Data. Advances in Intelligent Systems and Computing, 2016, , 919-928.	0.5	0
446	Principal Patterns on Graphs: Discovering Coherent Structures in Datasets. IEEE Transactions on Signal and Information Processing Over Networks, 2016, 2, 160-173.	1.6	9
447	General-purpose join algorithms for large graph triangle listing on heterogeneous systems. , 2016, , .		4
448	Anytime Algorithms for Recommendation Service Providers. ACM Transactions on Intelligent Systems and Technology, 2016, 7, 1-26.	2.9	4
449	Datacenter Design and Management: A Computer Architect's Perspective. Synthesis Lectures on Computer Architecture, 2016, 11, 1-121.	1.3	3
450	You are what you eat: So measure what you eat!. IEEE Instrumentation and Measurement Magazine, 2016, 19, 9-15.	1.2	24
451	Analyzing Enterprise Storage Workloads With Graph Modeling and Clustering. IEEE Journal on Selected Areas in Communications, 2016, 34, 551-574.	9.7	12
452	FB + -tree for Big Data Management. Big Data Research, 2016, 4, 25-36.	2.6	4
453	A Distributed Graph-Parallel Computing System with Lightweight Communication Overhead. IEEE Transactions on Big Data, 2016, 2, 204-218.	4.4	13
454	PathGraph: A Path Centric Graph Processing System. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2998-3012.	4.0	25
455	Single-pass and linear-time k-means clustering based on MapReduce. Information Systems, 2016, 60, 1-12.	2.4	52
456	Falcon. Transactions on Architecture and Code Optimization, 2016, 12, 1-27.	1.6	15
457	Graphine: Programming Graph-Parallel Computation of Large Natural Graphs for Multicore Clusters. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1647-1659.	4.0	7

#	Article	IF	Citations
458	Hypergraph querying using structural indexing and layer-related-closure verification. Knowledge and Information Systems, 2016, 46, 537-565.	2.1	5
459	Towards Systematic Parallelization of Graph Transformations Over Pregel. International Journal of Parallel Programming, 2017, 45, 320-339.	1.1	4
460	Design of hand gesture interaction framework on clouds for multiple users. Journal of Supercomputing, 2017, 73, 2851-2866.	2.4	1
461	Enabling applicationâ€aware flexible graph partition mechanism for parallel graph processing systems. Concurrency Computation Practice and Experience, 2017, 29, e3849.	1.4	6
462	FRANK: A Fast Node Ranking Approach in Large-Scale Networks. IEEE Network, 2017, 31, 36-43.	4.9	9
463	Disk-based shortest path discovery using distance index over large dynamic graphs. Information Sciences, 2017, 382-383, 201-215.	4.0	9
464	Keyword Search over Distributed Graphs with Compressed Signature. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1212-1225.	4.0	20
465	Machine learning on big data: Opportunities and challenges. Neurocomputing, 2017, 237, 350-361.	3.5	631
466	Big Graph Analytics Platforms. Foundations and Trends in Databases, 2017, 7, 1-195.	4.1	56
467	Partitioning dynamic graph asynchronously with distributed FENNEL. Future Generation Computer Systems, 2017, 71, 32-42.	4.9	9
468	An Adaptive Parallel Algorithm for Computing Connected Components. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 2428-2439.	4.0	16
469	Querying Web-Scale Knowledge Graphs Through Effective Pruning of Search Space. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 2342-2356.	4.0	16
470	Scalable and Efficient Flow-Based Community Detection for Large-Scale Graph Analysis. ACM Transactions on Knowledge Discovery From Data, 2017, 11, 1-30.	2.5	20
471	High Performance Graph Processing with Locality Oriented Design. IEEE Transactions on Computers, 2017, 66, 1261-1267.	2.4	0
472	Graph Partitioning for Distributed Graph Processing. Data Science and Engineering, 2017, 2, 94-105.	4.6	33
473	Big-Graphs: Querying, Mining, and Beyond. , 2017, , 531-582.		2
474	Distributed block formation and layout for disk-based management of large-scale graphs. Distributed and Parallel Databases, 2017, 35, 23-53.	1.0	4
475	Tapir. , 2017, , .		29

#	Article	IF	Citations
476	Management and Analysis of Big Graph Data: Current Systems and Open Challenges. , 2017, , 457-505.		36
477	Bringing High Performance Computing to Big Data Algorithms. , 2017, , 777-806.		2
478	Programming Platforms for Big Data Analysis. , 2017, , 65-99.		2
479	Graph Analytics Accelerators for Cognitive Systems. IEEE Micro, 2017, 37, 42-51.	1.8	4
480	Business Intelligence and Analytics: Big Systems for Big Data. , 2017, , 7-49.		1
481	Evolution of Cloud Operating System: From Technology to Ecosystem. Journal of Computer Science and Technology, 2017, 32, 224-241.	0.9	3
483	GraphPIM: Enabling Instruction-Level PIM Offloading in Graph Computing Frameworks. , 2017, , .		158
484	Scheduling-Aware Data Prefetching for Data Processing Services in Cloud. , 2017, , .		1
485	Graph Data Mining with Arabesque. , 2017, , .		2
486	Tuning the granularity of parallelism for distributed graph processing. Distributed and Parallel Databases, 2017, 35, 117-148.	1.0	0
487	ST-SAGE. ACM Transactions on Intelligent Systems and Technology, 2017, 8, 1-25.	2.9	26
488	HAMR: A dataflow-based real-time in-memory cluster computing engine. International Journal of High Performance Computing Applications, 2017, 31, 361-374.	2.4	3
489	Mosaic. , 2017, , .		101
490	Heterogeneity-aware Distributed Parameter Servers. , 2017, , .		133
491	Technical Perspective. SIGMOD Record, 2017, 46, 41-41.	0.7	0
492	Modeling Scalability of Distributed Machine Learning. , 2017, , .		9
493	KeystoneML: Optimizing Pipelines for Large-Scale Advanced Analytics. , 2017, , .		72
494	A Simple Yet Effective Balanced Edge Partition Model for Parallel Computing. Proceedings of the ACM on Measurement and Analysis of Computing Systems, 2017, 1, 1-21.	1.4	14

#	Article	IF	Citations
495	Graphâ€based recommendation integrating rating history and domain knowledge: Application to onâ€site guidance of museum visitors. Journal of the Association for Information Science and Technology, 2017, 68, 1911-1924.	1.5	18
496	Towards a scalable and energy-efficient resource manager for coupling cluster computing with distributed embedded computing. Cluster Computing, 2017, 20, 3707-3720.	3.5	1
497	Spatial coding-based approach for partitioning big spatial data in Hadoop. Computers and Geosciences, 2017, 106, 60-67.	2.0	35
498	An online classification algorithm for large scale data streams: iGNGSVM. Neurocomputing, 2017, 262, 67-76.	3.5	5
499	MR-SimLab: Scalable subgraph selection with label similarity for big data. Information Systems, 2017, 69, 155-163.	2.4	21
500	An experimental comparison of partitioning strategies in distributed graph processing. Proceedings of the VLDB Endowment, 2017, 10, 493-504.	2.1	47
501	Mobile Big Data: The Fuel for Data-Driven Wireless. IEEE Internet of Things Journal, 2017, 4, 1489-1516.	5.5	72
502	On Fault Tolerance for Distributed Iterative Dataflow Processing. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1709-1722.	4.0	10
503	An I/O-efficient and adaptive fault-tolerant framework for distributed graph computations. Distributed and Parallel Databases, 2017, 35, 177-196.	1.0	7
504	ForeGraph. , 2017, , .		100
505	I/O-efficient calculation of H -group closeness centrality over disk-resident graphs. Information Sciences, 2017, 400-401, 105-128.	4.0	7
506	Evaluation and Trade-offs of Graph Processing for Cloud Services. , 2017, , .		2
507	Analysis of Big Data vendors for SMEs. International Journal of Business Information Systems, 2017, 25, 456.	0.2	1
508	Blazes. ACM Transactions on Database Systems, 2017, 42, 1-31.	1.5	4
509	A Simple Yet Effective Balanced Edge Partition Model for Parallel Computing. Performance Evaluation Review, 2017, 45, 6-6.	0.4	1
510	Design of Distributed Calculation Scheme Using Network Address Translation for Ad-hoc Wireless Positioning Network. Communications in Computer and Information Science, 2017, , 33-48.	0.4	0
511	BLADYG: A Graph Processing Framework for Large Dynamic Graphs. Big Data Research, 2017, 9, 9-17.	2.6	22
512	MapReduce and Its Applications, Challenges, and Architecture: a Comprehensive Review and Directions for Future Research. Journal of Grid Computing, 2017, 15, 295-321.	2.5	50

#	Article	IF	Citations
513	Fides. , 2017, , .		21
514	Quantum Algorithm for K-Nearest Neighbors Classification Based on the Metric of Hamming Distance. International Journal of Theoretical Physics, 2017, 56, 3496-3507.	0.5	63
515	On Achieving Efficient Data Transfer for Graph Processing in Geo-Distributed Datacenters. , 2017, , .		23
516	Probabilistic demand forecasting at scale. Proceedings of the VLDB Endowment, 2017, 10, 1694-1705.	2.1	64
517	Archimedes. SIGMOD Record, 2017, 46, 30-35.	0.7	3
518	GraphA: Adaptive Partitioning for Natural Graphs. , 2017, , .		6
519	Efficient and Portable ALS Matrix Factorization for Recommender Systems. , 2017, , .		11
520	Towards Dataflow-Based Graph Accelerator. , 2017, , .		6
521	Analysis and Evaluation of the GAS Model for Distributed Graph Computation. , 2017, , .		1
522	Online data deduplication for in-memory big-data analytic systems. , 2017, , .		2
523	Hieroglyph. Proceedings of the ACM on Measurement and Analysis of Computing Systems, 2017, 1, 1-25.	1.4	1
524	Parallelizing Sequential Graph Computations. , 2017, , .		50
525	A Simple Yet Effective Balanced Edge Partition Model for Parallel Computing. , 2017, , .		10
526	CuMF_SGD. , 2017, , .		29
527	Large-Scale Stream Graph Processing. , 2017, , .		3
528	KunPeng. , 2017, , .		31
529	Process Streaming Healthcare Data with Adaptive MapReduce Framework. Scalable Computing and Communications, 2017, , 43-66.	0.5	1
530	Small Batch or Large Batch?. , 2017, , .		6

#	Article	IF	Citations
531	An algebra for distributed Big Data analytics. Journal of Functional Programming, 2017, 27, .	0.5	12
532	GRAPE. Proceedings of the VLDB Endowment, 2017, 10, 1889-1892.	2.1	18
533	Dot-Product Join. , 2017, , .		7
534	Data Wisdom in Computational Genomics Research. Statistics in Biosciences, 2017, 9, 646-661.	0.6	0
535	CoRAL. , 2017, , .		21
536	High Performance Coordinate Descent Matrix Factorization for Recommender Systems. , 2017, , .		5
537	Graspan. Operating Systems Review (ACM), 2017, 51, 389-404.	1.5	5
538	KickStarter. Computer Architecture News, 2017, 45, 237-251.	2.5	8
539	Distributed shared persistent memory. , 2017, , .		73
540	Deriving Streaming Graph Algorithms from Static Definitions. , 2017, , .		1
541	Extracting and Analyzing Hidden Graphs from Relational Databases. , 2017, , .		20
542	Predicting Large Scale Fine Grain Energy Consumption. Energy Procedia, 2017, 111, 1079-1088.	1.8	9
543	Distributed and in-Situ Machine Learning for Smart-Homes and Buildings: Application to Alarm Sounds Detection. , 2017, , .		2
544	Big Graph Data Analytics on Single Machines â€“ An Overview. Datenbank-Spektrum, 2017, 17, 101-112.	1.2	2
545	CCFinder: using Spark to find clustering coefficient in big graphs. Journal of Supercomputing, 2017, 73, 4683-4710.	2.4	7
546	PaPar: A Parallel Data Partitioning Framework for Big Data Applications. , 2017, , .		2
547	Data Management in Machine Learning. , 2017, , .		80
548	Data Analytics. Lecture Notes in Computer Science, 2017, , .	1.0	0

#	Article	IF	Citations
549	Combining Vertex-Centric Graph Processing with SPARQL for Large-Scale RDF Data Analytics. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 3374-3388.	4.0	19
550	FOG: A Fast Out-of-Core Graph Processing Framework. International Journal of Parallel Programming, 2017, 45, 1259-1272.	1.1	4
551	Deep data analyzing algorithm based on scale space theory. Cluster Computing, 2017, 20, 1-11.	3.5	112
552	Network Newton Distributed Optimization Methods. IEEE Transactions on Signal Processing, 2017, 65, 146-161.	3.2	122
553	Exploring big graph computing â€" An empirical study from architectural perspective. Journal of Parallel and Distributed Computing, 2017, 108, 122-137.	2.7	9
554	Intelligent and independent processes for overcoming big graphs. Journal of Supercomputing, 2017, 73, 1438-1466.	2.4	1
555	Exploration of de Bruijn Graph Filtering for de novo Assembly Using GraphLab. , 2017, , .		0
556	Data Mining and Analytics in the Process Industry: The Role of Machine Learning. IEEE Access, 2017, 5, 20590-20616.	2.6	647
557	State management in Apache FlinkÂ®. Proceedings of the VLDB Endowment, 2017, 10, 1718-1729.	2.1	152
558	Distributed Statistical Machine Learning in Adversarial Settings. Proceedings of the ACM on Measurement and Analysis of Computing Systems, 2017, 1, 1-25.	1.4	189
559	Location category classification using tree based models with novelty discrimination. , 2017, , .		1
560	A machine learning based approach to mobile cloud offloading. , 2017, , .		5
561	Research on Graph Processing Systems on a Single Machine. Lecture Notes in Computer Science, 2017, , 767-775.	1.0	0
562	GraphSteal: Dynamic Re-Partitioning for Efficient Graph Processing in Heterogeneous Clusters. , 2017, , .		6
563	Tapir. ACM SIGPLAN Notices, 2017, 52, 249-265.	0.2	7
564	Exploiting Data Dependency to Mitigate Stragglers in Distributed Spatial Simulation. , 2017, , .		8
565	Julienne. , 2017, , .		80
566	Scalable time-versioning support for property graph databases. , 2017, , .		5

#	Article	IF	Citations
567	DH-Falcon: A Language for Large-Scale Graph Processing on Distributed Heterogeneous Systems. , 2017, , .		3
568	Towards Practical and Robust Labeled Pattern Matching in Trillion-Edge Graphs. , 2017, , .		11
569	Accelerating Graph Analytics by Utilising the Memory Locality of Graph Partitioning. , 2017, , .		9
570	A scale-free structure for real world networks. , 2017, , .		0
571	A method for reducing the amounts of training samples for developing AI systems. , 2017, , .		0
572	Distributed PathGraph: A Cluster Centric Framework for Distributed Processing Graph. , 2017, , .		1
573	Puffin: Graph Processing System on Multi-GPUs. , 2017, , .		1
574	Making caches work for graph analytics. , 2017, , .		71
575	Towards memory and computation efficient graph processing on spark. , 2017, , .		4
576	A Topology-Adaptive Strategy for Graph Traversing. , 2017, , .		0
577	CLDA: Vertex-cut partitioning for streaming power-law graphs. , 2017, , .		2
578	A Transactional Model for Parallel Programming of Graph Applications on Computing Clusters. , 2017, , .		3
579	PMS. , 2017, , .		0
580	Graphie: Large-Scale Asynchronous Graph Traversals on Just a GPU. , 2017, , .		37
581	Exact and Parallel Triangle Counting in Dynamic Graphs. , 2017, , .		11
582	An approach to distributed parametric learning with streaming data. , 2017, , .		3
583	GSC: Greedy shard caching algorithm for improved I/O efficiency in GraphChi. , 2017, , .		0
584	Laro: Lazy repartitioning for graph workloads on heterogeneous clusters. , 2017, , .		2

#	Article	IF	Citations
585	Exploring Efficient Hardware Support for Applications with Irregular Memory Patterns on Multinode Manycore Architectures. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 1635-1648.	4.0	4
586	Granula. , 2017, , .		6
587	SPIRIT. , 2017, , .		1
588	Graspan. , 2017, , .		47
589	KickStarter. , 2017, , .		69
590	CoRAL. Operating Systems Review (ACM), 2017, 51, 223-236.	1.5	1
591	KickStarter. Operating Systems Review (ACM), 2017, 51, 237-251.	1.5	9
592	Graspan. ACM SIGPLAN Notices, 2017, 52, 389-404.	0.2	5
593	CoRAL. ACM SIGPLAN Notices, 2017, 52, 223-236.	0.2	2
594	KickStarter. ACM SIGPLAN Notices, 2017, 52, 237-251.	0.2	4
595	Graspan. Computer Architecture News, 2017, 45, 389-404.	2.5	9
596	CoRAL. Computer Architecture News, 2017, 45, 223-236.	2.5	0
597	RING: NUMA-Aware Message-Batching Runtime for Data-Intensive Applications. , 2017, , .		1
598	Recent advances in computational epigenetics. Advances in Genomics and Genetics, 2017, Volume 8, 1-12.	0.8	3
599	DPS: A DSM-based Parameter Server for Machine Learning. , 2017, , .		0
600	Characterization of Vertex-Centric Breadth First Search for Lattice Graphs. , 2017, , .		0
601	Quickly finding a truss in a haystack. , 2017, , .		21
602	Collaborative Filtering as a Case-Study for Model Parallelism on Bulk Synchronous Systems. , 2017, , .		4

#	Article	IF	Citations
603	ExtraV. Proceedings of the VLDB Endowment, 2017, 10, 1706-1717.	2.1	43
604	BlitzG: Exploiting high-bandwidth networks for fast graph processing. , 2017, , .		1
605	PGX.D/Async. , 2017, , .		13
606	A Comprehensive Study of Big Data Machine Learning Approaches and Challenges. , 2017, , .		10
607	Realizing Memory-Optimized Distributed Graph Processing. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 743-756.	4.0	7
608	Resource provisioning for memory intensive graph processing. , 2018, , .		2
609	Making pull-based graph processing performant. , 2018, , .		31
610	Lazygraph. , 2018, , .		12
611	GraphD: Distributed Vertex-Centric Graph Processing Beyond the Memory Limit. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 99-114.	4.0	32
612	Distributed RDF Query Processing. , 2018, , 51-83.		0
613	An experimental survey on big data frameworks. Future Generation Computer Systems, 2018, 86, 546-564.	4.9	91
614	Research on English Pronunciation Recognition Based on Neural Network. , 2018, , .		2
615	Wonderland. , 2018, , .		31
616	Scalable concurrency debugging with distributed graph processing. , 2018, , .		1
617	Opportunities and obstacles for deep learning in biology and medicine. Journal of the Royal Society Interface, 2018, 15, 20170387.	1.5	1,282
618	Tigr. , 2018, , .		47
619	GraphR: Accelerating Graph Processing Using ReRAM. , 2018, , .		169
620	Review of social media analytics process and Big Data pipeline. Social Network Analysis and Mining, 2018, 8, 1.	1.9	36

#	Article	IF	Citations
621	Frog: Asynchronous Graph Processing on GPU with Hybrid Coloring Model. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 29-42.	4.0	29
622	Large Scale Graph Processing in a Distributed Environment. Lecture Notes in Computer Science, 2018, , 465-477.	1.0	3
623	Task Scheduling for Processing Big Graphs in Heterogeneous Commodity Clusters. Communications in Computer and Information Science, 2018, , 235-249.	0.4	0
624	Development and Application of Big Data Platform for â€œBohai granaryâ€• Wireless Personal Communications, 2018, 103, 275-293.	1.8	5
625	Decoupling the control plane from program control flow for flexibility and performance in cloud computing. , 2018, , .		9
626	An Adaptive Synchronous Parallel Strategy for Distributed Machine Learning. IEEE Access, 2018, 6, 19222-19230.	2.6	27
627	GraphP: Reducing Communication for PIM-Based Graph Processing with Efficient Data Partition. , 2018, , .		125
628	FBSGraph: Accelerating Asynchronous Graph Processing via Forward and Backward Sweeping. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 895-907.	4.0	16
629	A Fault-Tolerant Framework for Asynchronous Iterative Computations in Cloud Environments. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 1678-1692.	4.0	10
630	Efficient and Scalable Graph Parallel Processing With Symbolic Execution. Transactions on Architecture and Code Optimization, 2018, 15, 1-25.	1.6	8
631	A Comprehensive Survey of Graph Embedding: Problems, Techniques, and Applications. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1616-1637.	4.0	1,233
632	A Block EM Algorithm for Multivariate Skew Normal and Skew <inline-formula> <tex-math notation="LaTeX">t </tex-math> </inline-formula>-Mixture Models. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5581-5591.	7.2	13
633	Fast prediction of web user browsing behaviours using most interesting patterns. Journal of Information Science, 2018, 44, 74-90.	2.0	11
634	Accelerating Data Analytics on Integrated GPU Platforms via Runtime Specialization. International Journal of Parallel Programming, 2018, 46, 336-375.	1.1	0
635	Replication-Based Fault-Tolerance for Large-Scale Graph Processing. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 1621-1635.	4.0	10
636	DPM: A novel distributed large-scale social graph processing framework for link prediction algorithms. Future Generation Computer Systems, 2018, 78, 474-480.	4.9	15
637	A Template-Based Design Methodology for Graph-Parallel Hardware Accelerators. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 420-430.	1.9	11
638	Multi-Version Codingâ€”An Information-Theoretic Perspective of Consistent Distributed Storage. IEEE Transactions on Information Theory, 2018, 64, 4540-4561.	1.5	9

#	Article	IF	Citations
639	Kuaa: A unified framework for design, deployment, execution, and recommendation of machine learning experiments. Future Generation Computer Systems, 2018, 78, 59-76.	4.9	2
640	Efficient finer-grained incremental processing with MapReduce for big data. Future Generation Computer Systems, 2018, 80, 102-111.	4.9	11
641	Theoretical and heuristic aspects of heterogeneous system scheduling with constraints on clientâ€™s multiple I/O ports. Future Generation Computer Systems, 2018, 78, 901-919.	4.9	3
642	Recommender Systems for Large-Scale Social Networks: A review of challenges and solutions. Future Generation Computer Systems, 2018, 78, 413-418.	4.9	134
643	HotML: A DSM-based machine learning system for social networks. Journal of Computational Science, 2018, 26, 478-487.	1.5	6
644	High-Level Programming Abstractions for Distributed Graph Processing. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 305-324.	4.0	39
645	Confluence: Speeding Up Iterative Distributed Operations by Key-Dependency-Aware Partitioning. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 351-364.	4.0	2
646	Accelerating breadth-first graph search on a single server by dynamic edge trimming. Journal of Parallel and Distributed Computing, 2018, 120, 383-394.	2.7	8
647	MPI-FAUN: An MPI-Based Framework for Alternating-Updating Nonnegative Matrix Factorization. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 544-558.	4.0	28
648	Methods to Detect Cyberthreats on Twitter. Advanced Sciences and Technologies for Security Applications, 2018, , 333-350.	0.4	2
649	Speeding Up Distributed Machine Learning Using Codes. IEEE Transactions on Information Theory, 2018, 64, 1514-1529.	1.5	509
650	Tools and approaches for topic detection from Twitter streams: survey. Knowledge and Information Systems, 2018, 54, 511-539.	2.1	46
651	Scalable parallel simulation of dynamical processes on large stochastic Kronecker graphs. Future Generation Computer Systems, 2018, 78, 502-515.	4.9	7
652	Distributed Machine Learning on IAAS Clouds. , 2018, , .		6
653	ShenTu: Processing Multi-Trillion Edge Graphs on Millions of Cores in Seconds. , 2018, , .		42
654	From Think Parallel to Think Sequential. SIGMOD Record, 2018, 47, 15-22.	0.7	0
655	Optimizing Machine Learning on Apache Spark in HPC Environments. , 2018, , .		1
656	Performance Evaluation of Pipeline-Based Processing for the Caffe Deep Learning Framework. IEICE Transactions on Information and Systems, 2018, E101.D, 1042-1052.	0.4	1

#	Article	IF	Citations
657	Aggressive Synchronization with Partial Processing for Iterative ML Jobs on Clusters. , 2018, , .		13
658	CGAcc: A Compressed Sparse Row Representation-Based BFS Graph Traversal Accelerator on Hybrid Memory Cube. Electronics (Switzerland), 2018, 7, 307.	1.8	1
659	Sincronia. , 2018, , .		59
660	An Empirical Analysis on Expressibility of Vertex Centric Graph Processing Paradigm. , 2018, , .		1
661	Review of Graph Processing Frameworks. , 2018, , .		2
662	Learning Graphical Models from a Distributed Stream. , 2018, , .		2
663	GraphZ: Improving the Performance of Large-Scale Graph Analytics on Small-Scale Machines. , 2018, , .		2
664	Sprocket. , 2018, , .		96
665	GraphIA. , 2018, , .		10
666	An Efficient Dynamic Load-Balancing Large Scale Graph-Processing System. , 2018, , .		0
667	Concurrent Hybrid Breadth-First-Search on Distributed PowerGraph for Skewed Graphs. , 2018, , .		1
668	Resource Management: Performance Assuredness in Distributed Cloud Computing via Online Reconfigurations. , 2018, , 160-236.		0
669	Enabling lock-free concurrent workers over temporal graphs composed of multiple time-series. , 2018, , .		2
670	Using Weaker Consistency Models with Monitoring and Recovery for Improving Performance of Key-Value Stores. , 2018, , .		2
671	Adaptive Runtime Features for Distributed Graph Algorithms. , 2018, , .		0
672	Rank correlation between centrality metrics in complex networks: an empirical study. Open Physics, 2018, 16, 1009-1023.	0.8	14
673	Scalable concurrency debugging with distributed graph processing. , 2018, , .		1
674	MapReduce with Components for Processing Big Graphs. , 2018, , .		1

#	Article	IF	Citations
675	A comparative study of graph partitioning algorithms for simulation of information spread in a multi-community landscape. Procedia Computer Science, 2018, 136, 218-227.	1.2	0
676	Synchronization-Avoiding Graph Algorithms. , 2018, , .		5
677	Coded Computing for Distributed Graph Analytics. , 2018, , .		30
678	Big Earth Data: a comprehensive analysis of visualization analytics issues. Big Earth Data, 2018, 2, 321-350.	2.0	10
680	Business Process Analytics and Big Data Systems: A Roadmap to Bridge the Gap. IEEE Access, 2018, 6, 77308-77320.	2.6	25
681	Graph Analytics on Manycore Memory Systems. IEEE Access, 2018, 6, 51429-51439.	2.6	2
682	Partitioning and Communication Strategies for Sparse Non-negative Matrix Factorization. , 2018, , .		6
683	TPM. ACM Transactions on Intelligent Systems and Technology, 2018, 9, 1-25.	2.9	23
684	A Hierarchical Synchronous Parallel Model for Wide-Area Graph Analytics. , 2018, , .		7
685	Parallelizing Sequential Graph Computations. ACM Transactions on Database Systems, 2018, 43, 1-39.	1.5	28
686	Exploring HPC and Big Data Convergence: A Graph Processing Study on Intel Knights Landing. , 2018, , .		6
687	A Query Processing Framework for Large-Scale Scientific Data Analysis. Lecture Notes in Computer Science, 2018, , 119-145.	1.0	1
688	The Taxonomy of Distributed Graph Analytics. , 2018, , .		0
689	Online Machine Learning in Big Data Streams: Overview. , 2018, , 1-11.		20
690	MapRDD. , 2018, , .		1
691	A communication-reduced and computation-balanced framework for fast graph computation. Frontiers of Computer Science, 2018, 12, 887-907.	1.6	18
692	A Cloud-based Architecture for Condition Monitoring based on Machine Learning. , 2018, , .		5
693	Think Sequential, Run Parallel. Lecture Notes in Computer Science, 2018, , 1-25.	1.0	2

#	Article	IF	Citations
694	An Introduction to Graph Data Management. Data-centric Systems and Applications, 2018, , 1-32.	0.2	20
696	Large Scale and Parallel Sentiment Analysis Based on Label Propagation in Twitter Data. , 2018, , .		6
697	RDF Data Storage and Query Processing Schemes. ACM Computing Surveys, 2019, 51, 1-36.	16.1	69
698	Scalable Prediction of Global Online Media News Virality. IEEE Transactions on Computational Social Systems, 2018, 5, 858-870.	3.2	6
699	How Well do CPU, GPU and Hybrid Graph Processing Frameworks Perform?. , 2018, , .		3
700	Performance Characterization of Multi-threaded Graph Processing Applications on Many-Integrated-Core Architecture. , 2018, , .		4
701	Big Data Systems Meet Machine Learning Challenges: Towards Big Data Science as a Service. Big Data Research, 2018, 14, 1-11.	2.6	96
702	OPTiC: Opportunistic Graph Processing in Multi-Tenant Clusters. , 2018, , .		0
703	GraphDuo: A Dual-Model Graph Processing Framework. IEEE Access, 2018, 6, 35057-35071.	2.6	3
704	Graph Summarization Methods and Applications. ACM Computing Surveys, 2019, 51, 1-34.	16.1	172
705	Congestion control in high-speed lossless data center networks: A survey. Future Generation Computer Systems, 2018, 89, 360-374.	4.9	34
706	Adaptive Asynchronous Parallelization of Graph Algorithms. , 2018, , .		15
707	ApproxG: Fast Approximate Parallel Graphlet Counting Through Accuracy Control. , 2018, , .		8
708	GAS. , 2018, , .		12
709	Data Driven Chiller Sequencing for Reducing HVAC Electricity Consumption in Commercial Buildings. , 2018, , .		24
710	On Uncertain Graphs. Synthesis Lectures on Data Management, 2018, 10, 1-94.	0.6	11
712	Analytics for the Internet of Things. ACM Computing Surveys, 2019, 51, 1-36.	16.1	137
713	SQLoop: High Performance Iterative Processing in Data Management. , 2018, , .		4

#	Article	IF	Citations
714	Laika. , 2018, , .		2
715	HyVE: Hybrid vertex-edge memory hierarchy for energy-efficient graph processing. , 2018, , .		13
716	T3-Scheduler: A topology and Traffic aware two-level Scheduler for stream processing systems in a heterogeneous cluster. Future Generation Computer Systems, 2018, 89, 617-632.	4.9	27
717	SHMEMGraph: Efficient and Balanced Graph Processing Using One-Sided Communication. , 2018, , .		5
718	Advances in Automation Technologies for Lower Extremity Neurorehabilitation: A Review and Future Challenges. IEEE Reviews in Biomedical Engineering, 2018, 11, 289-305.	13.1	43
719	A polyhedral compilation framework for loops with dynamic data-dependent bounds. , 2018, , .		8
720	GraFBoost: Using Accelerated Flash Storage for External Graph Analytics. , 2018, , .		50
721	Matrix Factorization on GPUs with Memory Optimization and Approximate Computing. , 2018, , .		5
722	Graph BI & Analytics: Current State and Future Challenges. Lecture Notes in Computer Science, 2018, , 3-18.	1.0	2
723	A Distributed Infomap Algorithm for Scalable and High-Quality Community Detection. , 2018, , .		15
724	A highly cost-effective task scheduling strategy for very large graph computation. Future Generation Computer Systems, 2018, 89, 698-712.	4.9	7
725	The Sparse Polyhedral Framework: Composing Compiler-Generated Inspector-Executor Code. Proceedings of the IEEE, 2018, 106, 1921-1934.	16.4	39
726	Privacy-Preserving Personal Model Training. , 2018, , .		7
727	Classifying Big Data Analytic Approaches: A Generic Architecture. Communications in Computer and Information Science, 2018, , 268-295.	0.4	3
728	Scalable Graph Processing Frameworks. ACM Computing Surveys, 2019, 51, 1-53.	16.1	730
729	TurboGraph++. , 2018, , .		32
730	GraphA: Efficient Partitioning and Storage for Distributed Graph Computation. IEEE Transactions on Services Computing, 2019, , 1-1.	3.2	2
731	CongraPlus: Towards Efficient Processing of Concurrent Graph Queries on NUMA Machines. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 1990-2002.	4.0	3

#	Article	IF	Citations
732	NGraph: Parallel Graph Processing in Hybrid Memory Systems. IEEE Access, 2019, 7, 103517-103529.	2.6	9
734	Optimal Online Data Partitioning for Geo-Distributed Machine Learning in Edge of Wireless Networks. IEEE Journal on Selected Areas in Communications, 2019, 37, 2393-2406.	9.7	36
735	A Partition-Centric Distributed Algorithm for Identifying Euler Circuits in Large Graphs. , 2019, , .		1
736	RaSQL. , 2019, , .		20
737	A Heterogeneous IoT Data Analysis Framework with Collaboration of Edge-Cloud Computing: Focusing on Indoor PM10 and PM2.5 Status Prediction. Sensors, 2019, 19, 3038.	2.1	18
738	Preserving SSD lifetime in deep learning applications with delta snapshots. Journal of Parallel and Distributed Computing, 2019, 133, 63-76.	2.7	2
739	Design of Processing-â€œInsideâ€•Memory Optimized for DRAM Behaviors. IEEE Access, 2019, 7, 82633-82648.	2.6	15
740	Fast and Accurate Graph Stream Summarization. , 2019, , .		23
741	A Parallel Graph Environment for Real-World Data Analytics Workflows. , 2019, , .		6
742	Data-Driven Decision Making in Precision Agriculture: The Rise of Big Data in Agricultural Systems. Journal of Agricultural and Food Information, 2019, 20, 344-380.	1.1	102
743	Combining Data Duplication and Graph Reordering to Accelerate Parallel Graph Processing. , 2019, , .		18
744	Cluster-Scheduling Big Graph Traversal Task for Parallel Processing in Heterogeneous Cloud Based on DAG Transformation. IEEE Access, 2019, 7, 77070-77082.	2.6	8
745	Deep Learning and Big Data in Healthcare: A Double Review for Critical Beginners. Applied Sciences (Switzerland), 2019, 9, 2331.	1.3	71
746	Cucumber Fruits Detection in Greenhouses Based on Instance Segmentation. IEEE Access, 2019, 7, 139635-139642.	2.6	67
747	A Case for Stale Synchronous Distributed Model for Declarative Recursive Computation. Theory and Practice of Logic Programming, 2019, 19, 1056-1072.	1.1	4
748	Parallel Heuristics for Balanced Graph Partitioning Based on Richness of Implicit Knowledge. IEEE Access, 2019, 7, 96444-96454.	2.6	6
749	Key-Insulated and Privacy-Preserving Signature Scheme with Publicly Derived Public Key. , 2019, , .		8
750	Joint Job Offloading and Resource Allocation for Distributed Deep Learning in Edge Computing. , 2019, , .		4

#	Article	IF	Citations
751	Big RDF Data Storage, Computation, and Analysis: A Strawman's Arguments. , 2019, , .		2
752	An Efficient Outsourced Privacy Preserving Machine Learning Scheme With Public Verifiability. IEEE Access, 2019, 7, 146322-146330.	2.6	35
753	LOSC. , 2019, , .		0
754	Cut to Fit. , 2019, , .		1
755	Scaling-Out Longitudinal Clinical Analytics with Dataflow Processing. , 2019, , .		0
756	GraphSEÂ². , 2019, , .		14
757	Distributed Subgraph Matching on Big Knowledge Graphs Using Pregel. IEEE Access, 2019, 7, 116453-116464.	2.6	11
758	Time Coherent Full-Body Poses Estimated Using Only Five Inertial Sensors: Deep versus Shallow Learning. Sensors, 2019, 19, 3716.	2.1	9
759	A Topology-aware Coding Framework for Distributed Graph Processing. , 2019, , .		2
760	Ariadne. , 2019, , .		4
761	GraphTinker: A High Performance Data Structure for Dynamic Graph Processing. , 2019, , .		10
762	Big Data Analytics for Large-scale Wireless Networks. ACM Computing Surveys, 2020, 52, 1-36.	16.1	87
763	A Comprehensive Survey on Cloud Data Mining (CDM) Frameworks and Algorithms. ACM Computing Surveys, 2020, 52, 1-62.	16.1	20
764	Time-Dependent Graphs: Definitions, Applications, and Algorithms. Data Science and Engineering, 2019, 4, 352-366.	4.6	59
765	Alleviating Users' Pain of Waiting: Effective Task Grouping for Online-to-Offline Food Delivery Services. , 2019, , .		17
766	Towards compiling graph queries in relational engines. , 2019, , .		4
767	HyVE: Hybrid Vertex-Edge Memory Hierarchy for Energy-Efficient Graph Processing. IEEE Transactions on Computers, 2019, 68, 1131-1146.	2.4	6
768	PPR-partitioning: a distributed graph partitioning algorithm based on the personalized PageRank vectors in vertex-centric systems. Knowledge and Information Systems, 2019, 61, 847-871.	2.1	0

#	Article	IF	Citations
769	GraphSAR. , 2019, , .		34
770	How Machine Learning is Changing e-Government. , 2019, , .		33
771	Analysis and Optimization of the Memory Hierarchy for Graph Processing Workloads. , 2019, , .		46
772	Phoenix. , 2019, , .		8
773	BSP-Based Strongly Connected Component Algorithm in Joint Cloud Computing. , 2019, , .		1
774	RealGraph: A Graph Engine Leveraging the Power-Law Distribution of Real-World Graphs. , 2019, , .		10
775	Grapple. , 2019, , .		17
776	Reducing the synchronizing communication overhead for distributed graph-parallel computing. Intelligent Data Analysis, 2019, 23, 313-332.	0.4	1
777	A high-performance parallel coral reef optimization for data clustering. Soft Computing, 2019, 23, 9327-9340.	2.1	12
778	PnP. , 2019, , .		13
779	Empirical Investigation of Stale Value Tolerance on Parallel RNN Training. , 2019, , .		2
780	DiGraph. , 2019, , .		30
781	CGraph. ACM Transactions on Storage, 2019, 15, 1-26.	1.4	11
782	Fast Approximate Score Computation on Large-Scale Distributed Data for Learning Multinomial Bayesian Networks. ACM Transactions on Knowledge Discovery From Data, 2019, 13, 1-40.	2.5	2
784	PowerLyra. ACM Transactions on Parallel Computing, 2018, 5, 1-39.	1.2	67
785	Benchmarking Distributed Data Processing Systems for Machine Learning Workloads. Lecture Notes in Computer Science, 2019, , 42-57.	1.0	1
786	Processing data where it makes sense: Enabling in-memory computation. Microprocessors and Microsystems, 2019, 67, 28-41.	1.8	126
787	Scalable and optimal planning based on Pregel. Concurrency Computation Practice and Experience, 2019, 31, e4966.	1.4	0

#	Article	IF	Citations
788	Automating Dependence-Aware Parallelization of Machine Learning Training on Distributed Shared Memory. , 2019, , .		4
789	AcMC ². , 2019, , .		11
790	A Survey on Graph Processing Accelerators: Challenges and Opportunities. Journal of Computer Science and Technology, 2019, 34, 339-371.	0.9	53
791	HOOVER: Distributed, Flexible, and Scalable Streaming Graph Processing on OpenSHMEM. Lecture Notes in Computer Science, 2019, , 109-124.	1.0	1
792	GreyCat: Efficient what-if analytics for data in motion at scale. Information Systems, 2019, 83, 101-117.	2.4	11
793	Improving Efficiency of Parallel Vertex-Centric Algorithms for Irregular Graphs. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 2265-2282.	4.0	3
794	Redio:ÂAccelerating Disk-Based Graph Processing by Reducing Disk I/Os. IEEE Transactions on Computers, 2019, 68, 414-425.	2.4	2
795	SEP-graph. , 2019, , .		30
796	Window-based Streaming Graph Partitioning Algorithm. , 2019, , .		13
797	$$FC^{2}$$ F C 2 : cloud-based cluster provisioning for distributed machine learning. Cluster Computing, 2019, 22, 1299-1315.	3.5	2
798	Listing all maximal cliques in large graphs on vertex-centric model. Journal of Supercomputing, 2019, 75, 4918-4946.	2.4	5
799	Extended query model for MOOC education resource metadata based on big data. International Journal of Continuing Engineering Education and Life-Long Learning, 2019, 29, 374.	0.1	3
800	High Performance and Scalable Simulations of a Bio-inspired Computational Model. , 2019, , .		0
801	Binary Algorithm for Big Data Management and Analytics of MyRA Data. , 2019, , .		0
802	A Synchronization-Avoiding Distance-1 Grundy Coloring Algorithm for Power-Law Graphs. , 2019, , .		0
803	MultiLyra: Scalable Distributed Evaluation of Batches of Iterative Graph Queries. , 2019, , .		12
804	SwitchAgg: A Further Step Towards In-Network Computing. , 2019, , .		4
805	Distributed SGD Generalizes Well Under Asynchrony. , 2019, , .		1

#	Article	IF	Citations
806	GraphOpt: a Framework for Automatic Parameters Tuning of Graph Processing Frameworks. , 2019, , .		1
807	Fast Triangle Counting on GPU. , 2019, , .		7
808	A Resource Effective Approach for Distributed Machine Learning over a Local Network. , 2019, , .		0
809	Adaptive Partition Migration for Irregular Graph Algorithms on Elastic Resources. , 2019, , .		1
810	On-The-Fly Parallel Data Shuffling for Graph Processing on OpenCL-Based FPGAs. , 2019, , .		16
811	MÃmir: Building and Deploying an ML Framework for Industrial IoT. , 2019, , .		1
812	Architectural Implications in Graph Processing of Accelerator with Gardenia Benchmark Suite. , 2019, , .		0
813	Vertex Degree Aware Two-Stage Graph Partitioning for Distributed Data-Flow Computing of Deep Learning. , 2019, , .		0
814	Distributed Community Detection in Large Networks using An Information-Theoretic Approach. , 2019, , .		4
815	Providing Cooperative Data Analytics for Real Applications Using Machine Learning. , 2019, , .		1
816	Composing Optimization Techniques for Vertex-Centric Graph Processing via Communication Channels. , 2019, , .		0
817	Enforcing Crash Consistency of Evolving Network Analytics in Non-Volatile Main Memory Systems. , 2019, , .		3
818	Gluon-Async: A Bulk-Asynchronous System for Distributed and Heterogeneous Graph Analytics. , 2019, , .		14
819	Cartel. , 2019, , .		21
820	Incrementalization of Vertex-Centric Programs. , 2019, , .		5
821	Efficient Distributed Graph Analytics using Triply Compressed Sparse Format. , 2019, , .		5
822	Large-Scale Dynamic Graph Updating Algorithm in Distributed Computing System. , 2019, , .		0
823	BigSpa: An Efficient Interprocedural Static Analysis Engine in the Cloud. , 2019, , .		7

#	Article	IF	Citations
824	A Shared-Memory Algorithm for Updating Tree-Based Properties of Large Dynamic Networks. IEEE Transactions on Big Data, 2019, , 1-1.	4.4	5
825	CADD: predicting the deleteriousness of variants throughout the human genome. Nucleic Acids Research, 2019, 47, D886-D894.	6.5	2,360
826	Capability for Multi-Core and Many-Core Memory Systems: A Case-Study With Xeon Processors. IEEE Access, 2019, 7, 47655-47662.	2.6	4
827	QuickSquad: A new single-machine graph computing framework for detecting fake accounts in large-scale social networks. Peer-to-Peer Networking and Applications, 2019, 12, 1385-1402.	2.6	4
828	Data Prefetching and Eviction Mechanisms of In-Memory Storage Systems Based on Scheduling for Big Data Processing. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 1738-1752.	4.0	7
829	GARDENIA. ACM Journal on Emerging Technologies in Computing Systems, 2019, 15, 1-13.	1.8	6
830	Quasi-Streaming Graph Partitioning: A Game Theoretical Approach. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 1643-1656.	4.0	16
831	Using High-Bandwidth Networks Efficiently for Fast Graph Computation. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 1170-1183.	4.0	47
832	A Survey on Geographically Distributed Big-Data Processing Using MapReduce. IEEE Transactions on Big Data, 2019, 5, 60-80.	4.4	43
833	SPFC: An Effective Optimization for Vertex-Centric Graph Processing Systems. IEEE Transactions on Sustainable Computing, 2019, 4, 118-131.	2.2	1
834	GraphH: A Processing-in-Memory Architecture for Large-Scale Graph Processing. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2019, 38, 640-653.	1.9	75
835	The next evolution of MDE: a seamless integration of machine learning into domain modeling. Software and Systems Modeling, 2019, 18, 1285-1304.	2.2	21
836	ANG: a combination of Apriori and graph computing techniques for frequent itemsets mining. Journal of Supercomputing, 2019, 75, 646-661.	2.4	11
837	An efficient iterative graph data processing framework based on bulk synchronous parallel model. Concurrency Computation Practice and Experience, 2020, 32, e4432.	1.4	5
838	L-PowerGraph: a lightweight distributed graph-parallel communication mechanism. Journal of Supercomputing, 2020, 76, 1850-1879.	2.4	4
839	An investigation of big graph partitioning methods for distribution of graphs in vertex-centric systems. Distributed and Parallel Databases, 2020, 38, 1-29.	1.0	12
840	Distributed Nonlinear Semiparametric Support Vector Machine for Big Data Applications on Spark Frameworks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4664-4675.	5.9	5
841	H2Pregel : A partition-based hybrid hierarchical graph computation approach. Future Generation Computer Systems, 2020, 104, 15-31.	4.9	3

#	Article	IF	Citations
842	WolfGraph: The edge-centric graph processing on GPU. Future Generation Computer Systems, 2020, 111, 552-569.	4.9	6
843	Big data analytics for manufacturing internet of things: opportunities, challenges and enabling technologies. Enterprise Information Systems, 2020, 14, 1279-1303.	3.3	169
844	The rise and fall of network stars: Analyzing 2.5 million graphs to reveal how high-degree vertices emerge over time. Information Processing and Management, 2020, 57, 102041.	5.4	13
845	Survey of external memory large-scale graph processing on a multi-core system. Journal of Supercomputing, 2020, 76, 549-579.	2.4	4
846	Towards a distributed local-search approach for partitioning large-scale social networks. Information Sciences, 2020, 508, 200-213.	4.0	6
847	Benchmarking big data systems: A survey. Computer Communications, 2020, 149, 241-251.	3.1	16
848	Efficient FPGA-based graph processing with hybrid pull-push computational model. Frontiers of Computer Science, 2020, 14, 1.	1.6	7
849	Cost-Aware Partitioning for Efficient Large Graph Processing in Geo-Distributed Datacenters. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1707-1723.	4.0	11
850	GraphMap: scalable iterative graph processing using NoSQL. Journal of Supercomputing, 2020, 76, 6619-6647.	2.4	6
851	Local Differential Privacy for Deep Learning. IEEE Internet of Things Journal, 2020, 7, 5827-5842.	5.5	116
852	Coded Computing: Mitigating Fundamental Bottlenecks in Large-Scale Distributed Computing and Machine Learning. Foundations and Trends in Communications and Information Theory, 2020, 17, 1-148.	2.4	32
853	Community detection in Networks using Graph Embedding. Procedia Computer Science, 2020, 173, 372-381.	1.2	11
854	Enabling Time-Centric Computation for Efficient Temporal Graph Traversals From Multiple Sources. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 1751-1762.	4.0	2
855	An Interval-centric Model for Distributed Computing over Temporal Graphs. , 2020, , .		9
856	PCGCN: Partition-Centric Processing for Accelerating Graph Convolutional Network. , 2020, , .		20
857	GaaS-X: Graph Analytics Accelerator Supporting Sparse Data Representation using Crossbar Architectures. , 2020, , .		31
858	GraphABCD: Scaling Out Graph Analytics with Asynchronous Block Coordinate Descent. , 2020, , .		19
859	A Survey on Large-Scale Machine Learning. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	43

#	Article	IF	Citations
860	TopoX: Topology Refactorization for Minimizing Network Communication in Graph Computations. IEEE/ACM Transactions on Networking, 2020, 28, 2768-2782.	2.6	13
861	Research on Integration and Sharing System of Network Movie and TV Data Resources under New Media Environment. , 2020, , .		0
862	Scalable Recommendation Using Large Scale Graph Partitioning With Pregel and Giraph. International Journal of Cognitive Informatics and Natural Intelligence, 2020, 14, 42-61.	0.4	6
863	Graph algorithms: parallelization and scalability. Science China Information Sciences, 2020, 63, 1.	2.7	13
864	GraphShield: Dynamic Large Graphs for Secure Queries with Forward Privacy. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	16
865	Distributed Multimodal Path Queries. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	17
866	GraphLib: A Parallel Graph Mining Library for Joint Cloud Computing. , 2020, , .		1
867	GGraph: An Efficient Structure-Aware Approach for Iterative Graph Processing. IEEE Transactions on Big Data, 2022, 8, 1182-1194.	4.4	7
868	Distributed Hypergraph Processing Using Intersection Graphs. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	1
869	GraphPulse: An Event-Driven Hardware Accelerator for Asynchronous Graph Processing. , 2020, , .		29
870	Efficient Online Scheduling for Coflow-Aware Machine Learning Clusters. IEEE Transactions on Cloud Computing, 2022, 10, 2564-2579.	3.1	8
871	CuWide: Towards Efficient Flow-Based Training for Sparse Wide Models on GPUs. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4119-4132.	4.0	7
872	Access pattern-based high-performance main memory system for graph processing on single machines. Future Generation Computer Systems, 2020, 108, 560-573.	4.9	1
873	Identification of topical subpopulations on social media. Information Sciences, 2020, 528, 92-112.	4.0	2
874	TACC: Topology-Aware Coded Computing for Distributed Graph Processing. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 508-525.	1.6	3
875	HBP: Hotness Balanced Partition for Prioritized Iterative Graph Computations. , 2020, , .		4
876	Two-Step Classification with SVD Preprocessing of Distributed Massive Datasets in Apache Spark. Algorithms, 2020, 13, 71.	1.2	7
877	Towards Understanding the Instability of Network Embedding. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 927-941.	4.0	2

#	Article	IF	Citations
878	Network security analysis using big data technology and improved neural network. Journal of Ambient Intelligence and Humanized Computing, 2020, , 1.	3.3	3
879	PSGraph: How Tencent trains extremely large-scale graphs with Spark?. , 2020, , .		9
880	Label Propagation-Based Parallel Graph Partitioning for Large-Scale Graph Data. IEEE Access, 2020, 8, 72801-72813.	2.6	5
881	A Hybrid Update Strategy for I/O-Efficient Out-of-Core Graph Processing. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1767-1782.	4.0	9
882	Coded Computing for Distributed Graph Analytics. IEEE Transactions on Information Theory, 2020, 66, 6534-6554.	1.5	10
883	Distributed Graph Computation Meets Machine Learning. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1588-1604.	4.0	8
884	NVGraph: Enforcing Crash Consistency of Evolving Network Analytics in NVMM Systems. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1255-1269.	4.0	5
885	Large-scale graph processing systems: a survey. Frontiers of Information Technology and Electronic Engineering, 2020, 21, 384-404.	1.5	12
886	An Analysis of Distributed Programming Models and Frameworks for Large-scale Graph Processing. IETE Journal of Research, 2020, , 1-9.	1.8	3
887	A Bayesian perspective of statistical machine learning for big data. Computational Statistics, 2020, 35, 893-930.	0.8	15
888	A utilization model for optimization of checkpoint intervals in distributed stream processing systems. Future Generation Computer Systems, 2020, 110, 68-79.	4.9	16
889	Enabling Cloud Applications to Negotiate Multiple Resources in a Cost-Efficient Manner. IEEE Transactions on Services Computing, 2021, 14, 413-425.	3.2	1
890	3-D Partitioning for Large-Scale Graph Processing. IEEE Transactions on Computers, 2021, 70, 111-127.	2.4	2
891	Trigger-Based Incremental Data Processing with Unified Sync and Async Model. IEEE Transactions on Cloud Computing, 2021, 9, 372-385.	3.1	5
892	Efficient Graph Processing with Invalid Update Filtration. IEEE Transactions on Big Data, 2021, 7, 590-602.	4.4	2
893	Self-Balancing Federated Learning With Global Imbalanced Data in Mobile Systems. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 59-71.	4.0	180
894	Addressing the New Item problem in video recommender systems by incorporation of visual features with restricted Boltzmann machines. Expert Systems, 2021, 38, e12645.	2.9	11
895	Mining userâ€“user communities for a weighted bipartite network using spark GraphFrames and Flink Gelly. Journal of Supercomputing, 2021, 77, 5984-6035.	2.4	5

#	Article	IF	Citations
896	Ternary Compression for Communication-Efficient Federated Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1162-1176.	7.2	64
897	Designing a parallel Feel-the-Way clustering algorithm on HPC systems. International Journal of High Performance Computing Applications, 2021, 35, 154-169.	2.4	0
898	Fast shared-memory streaming multilevel graph partitioning. Journal of Parallel and Distributed Computing, 2021, 147, 140-151.	2.7	9
899	Accelerating Large-Scale Prioritized Graph Computations by Hotness Balanced Partition. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 746-759.	4.0	3
900	Execution Repair for Spark Programs by Active Maintenance of Partition Dependency. IEEE Access, 2021, 9, 101555-101573.	2.6	0
901	Edge Repartitioning via Structure-Aware Group Migration. IEEE Transactions on Computational Social Systems, 2022, 9, 751-760.	3.2	3
902	ScaleG: A Distributed Disk-based System for Vertex-centric Graph Processing. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	4.0	6
903	Sample Contribution Pattern Based Big Data Mining Optimization Algorithms. IEEE Access, 2021, 9, 32734-32746.	2.6	4
904	Distributed Machine Learning for Wireless Communication Networks: Techniques, Architectures, and Applications. IEEE Communications Surveys and Tutorials, 2021, 23, 1458-1493.	24.8	53
905	A Data Layout with Good Data Locality for Single-Machine based Graph Engines. IEEE Transactions on Computers, 2021, , 1-1.	2.4	1
906	Advances in MapReduce Big Data Processing: Platform, Tools, and Algorithms. Studies in Big Data, 2021, , 105-128.	0.8	9
907	Cloud-Based Predictive Intelligence and Its Security Model. , 2021, , 1215-1230.		0
908	Distributed and Quantized Online Multi-Kernel Learning. IEEE Transactions on Signal Processing, 2021, 69, 5496-5511.	3.2	6
909	Big Data Analysis in Bioinformatics. , 2021, , 405-429.		0
910	ThunderGP. , 2021, , .		48
911	DepGraph: A Dependency-Driven Accelerator for Efficient Iterative Graph Processing. , 2021, , .		12
912	P-OPT: Practical Optimal Cache Replacement for Graph Analytics. , 2021, , .		13
913	GPU Accelerated Matrix Factorization for Recommender Systems. , 2021, , .		1

#	Article	IF	Citations
914	Advanced Network Sampling with Heterogeneous Multiple Chains. Sensors, 2021, 21, 1905.	2.1	0
915	Towards Efficient Large-Scale Interprocedural Program Static Analysis on Distributed Data-Parallel Computation. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 867-883.	4.0	8
916	RGraph: Asynchronous graph processing based on asymmetry of remote direct memory access. Software - Practice and Experience, 2022, 52, 374-393.	2.5	1
917	DBSpinner: Making a Case for Iterative Processing in Databases. , 2021, , .		0
918	CuWide: Towards Efficient Flow-based Training for Sparse Wide Models on GPUs (Extended Abstract). , 2021, , .		3
919	Theoretically Efficient Parallel Graph Algorithms Can Be Fast and Scalable. ACM Transactions on Parallel Computing, 2021, 8, 1-70.	1.2	27
920	Minimizing Training Time of Distributed Machine Learning by Reducing Data Communication. IEEE Transactions on Network Science and Engineering, 2021, 8, 1802-1814.	4.1	13
921	Trillion-scale Graph Processing Simulation based on Top-Down Graph Upscaling. , 2021, , .		0
922	An Efficient Method Based on Label Propagation for Overlapping Community Detection. , 2021, , .		1
923	Graph processing and machine learning architectures with emerging memory technologies: a survey. Science China Information Sciences, 2021, 64, 1.	2.7	12
924	Formal semantics and high performance in declarative machine learning using Datalog. VLDB Journal, 2021, 30, 859-881.	2.7	4
925	DMGA: A Distributed Shortest Path Algorithm for Multistage Graph. Scientific Programming, 2021, 2021, 1-14.	0.5	0
926	Graph-based generative representation learning of semantically and behaviorally augmented floorplans. Visual Computer, 0, , 1.	2.5	8
927	PolyGraph: Exposing the Value of Flexibility for Graph Processing Accelerators. , 2021, , .		29
928	Performance Evaluation of Intel Optane Memory for Managed Workloads. Transactions on Architecture and Code Optimization, 2021, 18, 1-26.	1.6	9
929	Distributed Graph Processing System and Processing-in-memory Architecture with Precise Loop-carried Dependency Guarantee. ACM Transactions on Computer Systems, 2021, 37, 1-37.	0.6	1
930	Multiâ€•node Expectationâ€“Maximization algorithm for finite mixture models. Statistical Analysis and Data Mining, 2021, 14, 297-304.	1.4	0
931	Position paper. , 2021, , .		0

#	Article	IF	Citations
932	GraphZero. Operating Systems Review (ACM), 2021, 55, 21-37.	1.5	14
933	Hybrid Evaluation for Distributed Iterative Matrix Computation. , 2021, , .		1
934	VRGQ. Operating Systems Review (ACM), 2021, 55, 11-20.	1.5	2
935	GraphCP: An I/O-Efficient Concurrent Graph Processing Framework. , 2021, , .		1
936	Hybrid Edge Partitioner: Partitioning Large Power-Law Graphs under Memory Constraints. , 2021, , .		12
937	MP-CREDIT: Multi-path credit for high-speed data center transports. Computer Networks, 2021, 193, 108061.	3.2	3
938	VPC: Pruning connected components using vector-based path compression for Graph500. CCF Transactions on High Performance Computing, 2021, 3, 271.	1.1	0
939	Temporal concatenation for Markov decision processes. Probability in the Engineering and Informational Sciences, 0, , 1-28.	0.6	0
940	Systemizing Interprocedural Static Analysis of Large-scale Systems Code with Graspan. ACM Transactions on Computer Systems, 2020, 38, 1-39.	0.6	2
941	Knowledge Graphs. ACM Computing Surveys, 2022, 54, 1-37.	16.1	585
942	Towards big services: a synergy between service computing and parallel programming. Computing (Vienna/New York), 2021, 103, 2479-2519.	3.2	7
943	K-way spectral graph partitioning for load balancing in parallel computing. International Journal of Information Technology (Singapore), 2021, 13, 1893-1900.	1.8	3
944	Grafs: declarative graph analytics. , 2021, 5, 1-32.		0
945	A Fault-Tolerant Distributed Framework for Asynchronous Iterative Computations. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2062-2073.	4.0	0
946	Po-Miner: A Web Mining Poem Generator and its Security Model. SN Computer Science, 2021, 2, 1.	2.3	0
947	BALS: Blocked Alternating Least Squares for Parallel Sparse Matrix Factorization on GPUs. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2291-2302.	4.0	3
948	Practical and high-quality partitioning algorithm for large-scale and time-evolving graphs. Knowledge-Based Systems, 2021, 227, 107211.	4.0	1
949	Pipelined Training with Stale Weights in Deep Convolutional Neural Networks. Applied Computational Intelligence and Soft Computing, 2021, 2021, 1-16.	1.6	0

#	Article	IF	Citations
950	A fast local community detection algorithm in complex networks. World Wide Web, 2021, 24, 1929-1955.	2.7	6
951	Group Reassignment for Dynamic Edge Partitioning. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2477-2490.	4.0	5
952	A survey on the Distributed Computing stack. Computer Science Review, 2021, 42, 100422.	10.2	4
953	Adaptive Online Estimation of Thrashing-Avoiding Memory Reservations for Long-Lived Containers. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 620-639.	0.2	0
954	Graph Algorithms with Partition Transparency. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	4.0	3
955	Use of Machine Learning Services in Cloud. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 43-52.	0.5	6
957	An MPI-based Algorithm for Mapping Complex Networks onto Hierarchical Architectures. Lecture Notes in Computer Science, 2021, , 167-182.	1.0	0
958	Asynchronous Compatible D-ML System for Edge Devices. Communications in Computer and Information Science, 2021, , 168-179.	0.4	0
959	GPU-Accelerated Cloud Computing for Data-Intensive Applications. , 2014, , 105-129.		4
960	Agent Programmability Enhancement forÂRambling over a Scientific Dataset. Lecture Notes in Computer Science, 2020, , 251-263.	1.0	2
961	An Empirical Study on Recent Graph Database Systems. Lecture Notes in Computer Science, 2020, , 328-340.	1.0	8
962	Mining Texts, Learner Productions and Strategies with ReaderBench. Studies in Computational Intelligence, 2014, , 345-377.	0.7	32
963	Fast Triangle Core Decomposition for Mining Large Graphs. Lecture Notes in Computer Science, 2014, , 310-322.	1.0	12
965	NPEPE: Massive Natural Computing Engine for Optimally Solving NP-complete Problems in Big Data Scenarios. Communications in Computer and Information Science, 2015, , 207-217.	0.4	9
966	A Balanced Vertex Cut Partition Method in Distributed Graph Computing. Lecture Notes in Computer Science, 2015, , 43-54.	1.0	2
967	A Block-Based Edge Partitioning for Random Walks Algorithms over Large Social Graphs. Lecture Notes in Computer Science, 2016, , 275-289.	1.0	2
968	Parallel Answer Set Programming. , 2018, , 237-282.		7
970	PEEL: A Framework for Benchmarking Distributed Systems and Algorithms. Lecture Notes in Computer Science, 2018, , 9-24.	1.0	4

#	Article	IF	Citations
971	Apache SystemML. , 2019, , 81-86.		1
973	Giraphx: Parallel Yet Serializable Large-Scale Graph Processing. Lecture Notes in Computer Science, 2013, , 458-469.	1.0	13
974	Scalable Data-Driven PageRank: Algorithms, System Issues, and Lessons Learned. Lecture Notes in Computer Science, 2015, , 438-450.	1.0	26
975	Enabling Vehicular Data with Distributed Machine Learning. Lecture Notes in Computer Science, 2015, , 89-102.	1.0	3
977	FedMax: Enabling a Highly-Efficient Federated Learning Framework. , 2020, , .		15
978	HotGraph: Efficient Asynchronous Processing for Real-World Graphs. IEEE Transactions on Computers, 2017, 66, 799-809.	2.4	18
979	Rule Based Systems in a Distributed Environment: Survey. , 0, , .		5
980	Fast Flow-based Random Walk with Restart in a Multi-query Setting. , 2018, , 342-350.		4
981	ImmortalGraph. ACM Transactions on Storage, 2015, 11, 1-34.	1.4	41
982	ASPIRE. ACM SIGPLAN Notices, 2014, 49, 861-878.	0.2	13
983	FACADE. ACM SIGPLAN Notices, 2015, 50, 675-690.	0.2	10
984	Petuum. , 2015, , .		61
985	FACADE. Computer Architecture News, 2015, 43, 675-690.	2.5	10
986	HDRF. , 2015, , .		94
987	Scalable Facility Location for Massive Graphs on Pregel-like Systems. , 2015, , .		6
988	Loop and data transformations for sparse matrix code. ACM SIGPLAN Notices, 2015, 50, 521-532.	0.2	19
989	Tornado. , 2016, , .		60
990	Scaling Factorization Machines with Parameter Server. , 2016, , .		9

#	Article	IF	Citations
991	Memory-Optimized Distributed Graph Processing through Novel Compression Techniques. , 2016, , .		6
992	GiraphAsync. , 2016, , .		4
993	Data Locality in Graph Engines. , 2016, , .		5
994	Energy efficient architecture for graph analytics accelerators. Computer Architecture News, 2016, 44, 166-177.	2.5	35
996	Think like a vertex, behave like a function! a functional DSL for vertex-centric big graph processing. ACM SIGPLAN Notices, 2016, 51, 200-213.	0.2	3
997	FlashR. , 2018, , .		2
998	Making pull-based graph processing performant. ACM SIGPLAN Notices, 2018, 53, 246-260.	0.2	8
999	ReGraph. , 2018, , .		5
1000	Tigr. ACM SIGPLAN Notices, 2018, 53, 622-636.	0.2	21
1001	DB4ML - An In-Memory Database Kernel with Machine Learning Support. , 2020, , .		17
1002	IBM Db2 Graph: Supporting Synergistic and Retrofittable Graph Queries Inside IBM Db2. , 2020, , .		9
1003	Reliable Data Distillation on Graph Convolutional Network. , 2020, , .		32
1004	Automating Incremental and Asynchronous Evaluation for Recursive Aggregate Data Processing. , 2020, , .		15
1005	AutoMine. , 2019, , .		45
1006	Subway. , 2020, , .		35
1007	GraphQ. , 2019, , .		73
1008	Peregrine. , 2019, , .		21
1009	FfDL. , 2019, , .		11

#	Article	IF	Citations
1010	G <scp>raph</scp> O <scp>ne</scp>. ACM Transactions on Storage, 2019, 15, 1-40.	1.4	23
1011	GPOP. ACM Transactions on Parallel Computing, 2020, 7, 1-24.	1.2	21
1012	JGraphTâ€"A Java Library for Graph Data Structures and Algorithms. ACM Transactions on Mathematical Software, 2020, 46, 1-29.	1.6	65
1013	SympleGraph: distributed graph processing with precise loop-carried dependency guarantee. , 2020, , .		6
1014	A Conflict-free Scheduler for High-performance Graph Processing on Multi-pipeline FPGAs. Transactions on Architecture and Code Optimization, 2020, 17, 1-26.	1.6	6
1015	AsynGraph. Transactions on Architecture and Code Optimization, 2020, 17, 1-21.	1.6	9
1016	Using weaker consistency models with monitoring and recovery for improving performance of key-value stores. Journal of the Brazilian Computer Society, 2019, 25, .	0.8	2
1017	A survey on data analysis on large-Scale wireless networks: online stream processing, trends, and challenges. Journal of Internet Services and Applications, 2020, 11, .	1.6	17
1018	Reducing vertices in property graphs. PLoS ONE, 2018, 13, e0191917.	1.1	4
1019	UDA-GIST. Proceedings of the VLDB Endowment, 2015, 8, 557-568.	2.1	11
1020	GraphTwist. Proceedings of the VLDB Endowment, 2015, 8, 1262-1273.	2.1	27
1021	A distributed multi-GPU system for fast graph processing. Proceedings of the VLDB Endowment, 2017, 11, 297-310.	2.1	49
1022	LA3. Proceedings of the VLDB Endowment, 2018, 11, 920-933.	2.1	11
1023	Experimental analysis of distributed graph systems. Proceedings of the VLDB Endowment, 2018, 11, 1151-1164.	2.1	23
1024	<u>S</u>tart <u>l</u>ate or <u>f</u>inish <u>e</u>arly. Proceedings of the VLDB Endowment, 2018, 12, 154-168.	2.1	21
1025	Beyond macrobenchmarks. Proceedings of the VLDB Endowment, 2018, 12, 390-403.	2.1	27
1026	HELIX. Proceedings of the VLDB Endowment, 2018, 12, 446-460.	2.1	32
1027	TopoX. Proceedings of the VLDB Endowment, 2019, 12, 891-905.	2.1	22

#	Article	IF	Citations
1028	Distributed subgraph matching on timely dataflow. Proceedings of the VLDB Endowment, 2019, 12, 1099-1112.	2.1	39
1029	Distributed edge partitioning for trillion-edge graphs. Proceedings of the VLDB Endowment, 2019, 12, 2379-2392.	2.1	26
1030	Incrementalization of graph partitioning algorithms. Proceedings of the VLDB Endowment, 2020, 13, 1261-1274.	2.1	34
1031	Dynamic parameter allocation in parameter servers. Proceedings of the VLDB Endowment, 2020, 13, 1877-1890.	2.1	10
1032	Analyzing Complex Data in Motion at Scale with Temporal Graphs. , 2017, , .		24
1033	Efficient Methods for Incorporating Knowledge into Topic Models. , 2015, , .		30
1037	Clustering Algorithm for Community Detection in Complex Network: A Comprehensive Review. Recent Advances in Computer Science and Communications, 2020, 13, 542-549.	0.5	6
1038	Directions for Big Data Graph Analytics Research. International Journal of Big Data, 2015, 2, 15-27.	0.6	2
1039	Design and Analysis of a Water Quality Monitoring Data Service Platform. Computers, Materials and Continua, 2020, 66, 389-405.	1.5	10
1040	Machine Learning in Big Data. International Journal of Mathematical, Engineering and Management Sciences, 2016, 1, 52-61.	0.4	31
1041	Mobile Cloud Resource Management. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2015, , 69-96.	0.5	1
1042	The Heterogeneity Paradigm in Big Data Architectures. Advances in Data Mining and Database Management Book Series, 2016, , 218-245.	0.4	1
1043	Framework to Classify and Analyze Social Media Content. Social Networking, 2018, 07, 79-88.	0.3	4
1055	GraSP: distributed streaming graph partitioning. , 0, , .		6
1056	FreeLauncher: Lossless Failure Recovery of Parameter Servers with Ultralight Replication. , 2021, , .		0
1057	An Efficient and Balanced Graph Partition Algorithm for the Subgraph-Centric Programming Model on Large-scale Power-law Graphs. , 2021, , .		1
1058	HiPa: Hierarchical Partitioning for Fast PageRank on NUMA Multicore Systems. , 2021, , .		1
1059	HNGraph: Parallel Graph Processing in Hybrid Memory Based NUMA Systems. , 2021, , .		1

#	Article	IF	Citations
1060	Krill. , 2021, , .		6
1061	WGB: Towards a Universal Graph Benchmark. Lecture Notes in Computer Science, 2014, , 58-72.	1.0	4
1062	ReaderBench (1) - Cohesion-Based Discourse Analysis and Dialogism. Studies in Computational Intelligence, 2014, , 137-160.	0.7	2
1063	Asynchronous Computation Model for Large-Scale Iterative Computations. , 2014, , 303-328.		0
1064	Distributed Programming for the Cloud: Models, Challenges, and Analytics Engines. , 2014, , 1-38.		1
1065	Functional programming for dynamic and large data with self-adjusting computation. ACM SIGPLAN Notices, 2014, 49, 227-240.	0.2	1
1066	Tiled Linear Algebra a System for Parallel Graph Algorithms. Lecture Notes in Computer Science, 2015, , 116-130.	1.0	2
1067	Distributed Confidence-Weighted Classification on Big Data Platforms. Handbook of Statistics, 2015, 33, 145-168.	0.4	1
1068	Highly Efficient Parallel Framework: A Divide-and-Conquer Approach. Lecture Notes in Computer Science, 2015, , 162-176.	1.0	1
1069	Towards Truly Elastic Distributed Graph Computing in the Cloud. Lecture Notes in Computer Science, 2015, , 300-309.	1.0	0
1071	Solving Large Graph Problems in MapReduce-Like Frameworks via Optimized Parameter Configuration. Lecture Notes in Computer Science, 2015, , 525-539.	1.0	0
1072	Comparative Analysis of Collaborative Filtering on GraphLab, MLlib and Mahout. Journal of Independent Studies and Research - Computing, 2015, 13, .	0.1	0
1073	A Case Study of OpenMP Applied to Map/Reduce-Style Computations. Lecture Notes in Computer Science, 2015, , 162-174.	1.0	4
1074	Towards Scale-out Capability on Social Graphs. , 2015, , .		0
1075	A distributed k-mean clustering algorithm for cloud data mining. SSRG International Journal of Engineering Trends and Technology, 2015, 30, 341-345.	0.3	2
1076	Mobile Cloud Resource Management. , 2016, , 1747-1773.		0
1077	Mobile Cloud Resource Management. , 2016, , 300-326.		0
1078	Divide-and-Conquer Parallelism for Learning Mixture Models. Lecture Notes in Computer Science, 2016, , 23-47.	1.0	0

#	Article	IF	Citations
1079	SPIRIT. , 2016, , .		1
1080	Evolution of Incremental Map Reduce Technique in Web Mining. International Journal of Computer Science and Engineering, 2016, 3, 43-45.	0.1	0
1081	Big Graph : Tools, Techniques, Issues, Challenges and Future Directions. , 2016, , .		2
1082	Deep Data Anaylizing Application Based on Scale Space Theory in Big Data Environment. , 2016, , .		0
1084	SPIRIT. ACM SIGPLAN Notices, 2016, 51, 1-2.	0.2	0
1085	A Topology-Aware Framework for Graph Traversals. Lecture Notes in Computer Science, 2017, , 165-179.	1.0	0
1086	EvoGraph: On-the-Fly Efficient Mining of Evolving Graphs on GPU. Lecture Notes in Computer Science, 2017, , 97-119.	1.0	15
1087	Fast Approximate Distance Queries in Unweighted Graphs Using Bounded Asynchrony. Lecture Notes in Computer Science, 2017, , 40-54.	1.0	0
1088	Overview of Key Quality Characteristics Identification of Complex Electromechanical Products. IOSR Journal of Mechanical and Civil Engineering, 2017, 14, 01-06.	0.1	1
1089	MatrixMap: Programming abstraction and implementation of matrix computation for big data analytics. Big Data & Information Analytics, 2017, 1, 349-376.	1.3	0
1107	Asynchronous Page-Rank Computation in Spark. Advances in Intelligent Systems and Computing, 2018, , 567-573.	0.5	0
1108	Efficient Graph Mining on Heterogeneous Platforms in the Cloud. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 12-21.	0.2	1
1109	LMCC: Lazy Message and Centralized Cache for Asynchronous Graph Computing. Lecture Notes in Computer Science, 2018, , 60-75.	1.0	0
1110	Trends and Challenges in Large-Scale HPC Network Analysis. Advances in Computer and Electrical Engineering Book Series, 2018, , 144-170.	0.2	0
1111	MapReduce. , 2018, , 2206-2210.		0
1112	Parallel Processing of Graphs. Data-centric Systems and Applications, 2018, , 143-162.	0.2	0
1114	Research on Realization of Petrophysical Data Mining Based on Big Data Technology. Open Journal of Yangtze Oil and Gas, 2018, 03, 1-10.	0.2	1
1115	Computing. Wireless Networks, 2018, , 35-49.	0.3	0

#	Article	IF	Citations
1116	Computational and Data Mining Perspectives on HIV/AIDS in Big Data Era. Advances in Healthcare Information Systems and Administration Book Series, 2018, , 81-116.	0.2	1
1117	Graph Benchmarking. , 2018, , 1-7.		0
1118	FlashR. ACM SIGPLAN Notices, 2018, 53, 183-194.	0.2	0
1119	Lazygraph. ACM SIGPLAN Notices, 2018, 53, 276-289.	0.2	3
1120	In Search of Actionable Patterns of Lowest Cost - A Scalable Graph Method. International Journal of Database Management Systems, 2018, 10, 01-19.	0.2	2
1121	Scalable Single-Source Shortest Path Algorithms on Distributed Memory Systems. Communications in Computer and Information Science, 2019, , 19-33.	0.4	0
1123	Mobile Cloud Resource Management. , 2019, , 979-1006.		0
1124	Scalable Least Square Twin Support Vector Machine Learning. Lecture Notes in Computer Science, 2019, , 239-249.	1.0	1
1126	Graph Processing Frameworks. , 2019, , 875-883.		0
1127	Cloud-Based Predictive Intelligence and Its Security Model. Advances in Computational Intelligence and Robotics Book Series, 2019, , 128-143.	0.4	8
1128	Graph Benchmarking. , 2019, , 808-814.		0
1129	Computational Comparison of Major Proposed Methods for Graph Partitioning Problem. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2019, 23, 5-17.	0.5	1
1130	Design and Simulation of Evaluation Model of Teaching Reform Achievements in Colleges and Universities. , 0, , .		0
1131	Online Machine Learning in Big Data Streams: Overview. , 2019, , 1207-1218.		4
1132	SwitchAgg. , 2019, , .		12
1133	Multi-dimensional balanced graph partitioning via projected gradient descent. Proceedings of the VLDB Endowment, 2019, 12, 906-919.	2.1	11
1134	Failure Recovery in Resilient X10. ACM Transactions on Programming Languages and Systems, 2019, 41, 1-30.	1.7	10
1136	Distributed Single-Source Shortest Path Algorithms with Two-Dimensional Graph Layout. Unsupervised and Semi-supervised Learning, 2020, , 39-58.	0.4	0

#	Article	IF	Citations
1137	Ultra-Scalable Simulations of Networks of Polarized Evolutionary Processors. , 2019, , .		0
1138	Real-time Edge Repartitioning for Dynamic Graph. , 2019, , .		1
1139	Distributed Graph Analytics. Lecture Notes in Computer Science, 2020, , 3-20.	1.0	0
1140	Large-Scale Graph Processing Systems. , 2020, , 59-93.		0
1142	Summarizing Complex Graphical Models of Multiple Chronic Conditions Using the Second Eigenvalue of Graph Laplacian: Algorithm Development and Validation. JMIR Medical Informatics, 2020, 8, e16372.	1.3	3
1143	Smooth Kronecker. , 2020, , .		0
1144	GraBi: Communication-Efficient and Workload-Balanced Partitioning for Bipartite Graphs. , 2020, , .		2
1145	Balancing Graph Processing Workloads Using Work Stealing on Heterogeneous CPU-FPGA Systems. , 2020, , .		7
1146	Synthesis of Incremental Linear Algebra Programs. ACM Transactions on Database Systems, 2020, 45, 1-44.	1.5	1
1147	A Simple Study of Pleasing Parallelism on Multicore Computers. Modeling and Simulation in Science, Engineering and Technology, 2020, , 325-346.	0.4	0
1148	SimGQ: Simultaneously Evaluating Iterative Graph Queries. , 2020, , .		3
1149	Accelerating PageRank in Shared-Memory for Efficient Social Network Graph Analytics. , 2020, , .		2
1150	Approximately and Efficiently Estimating Dynamic Point-to-Point Shortest Path. , 2020, , .		1
1151	DisGCo. Transactions on Architecture and Code Optimization, 2020, 17, 1-26.	1.6	3
1152	BEAD: Batched Evaluation of Iterative Graph Queries with Evolving Analytics Demands. , 2020, , .		2
1153	Structure Preserved Graph Reordering for Fast Graph Processing Without the Pain. , 2020, , .		2
1154	Centrality and Scalability Analysis on Distributed Graph of Large-Scale E-mail Dataset for Digital Forensics. , 2020, , .		2
1155	Computational and Data Mining Perspectives on HIV/AIDS in Big Data Era. , 2022, , 1477-1503.		0

#	Article	IF	Citations
1156	Handling Iterations in Distributed Dataflow Systems. ACM Computing Surveys, 2022, 54, 1-38.	16.1	3
1157	An Effective 2-Dimension Graph Partitioning for Work Stealing Assisted Graph Processing on Multi-FPGAs. IEEE Transactions on Big Data, 2022, 8, 1247-1258.	4.4	1
1158	Large-Scale Machine/Deep Learning Frameworks. , 2020, , 117-126.		0
1160	Large-Scale Stream Processing Systems. , 2020, , 95-115.		0
1161	General-Purpose Big Data Processing Systems. , 2020, , 17-43.		0
1162	Joint Data Collection and Resource Allocation for Distributed Machine Learning at the Edge. IEEE Transactions on Mobile Computing, 2022, 21, 2876-2894.	3.9	6
1163	Large-Scale Processing Systems of Structured Data. , 2020, , 45-58.		0
1164	DETER: Streaming Graph Partitioning via Combined Degree and Cluster Information. Lecture Notes in Computer Science, 2020, , 242-255.	1.0	0
1165	Efficient Distributed Clustering Algorithms on Star-Schema Heterogeneous Graphs. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4781-4796.	4.0	3
1166	Pimiento: A Vertex-Centric Graph-Processing Framework on a Single Machine. Lecture Notes in Computer Science, 2020, , 42-56.	1.0	0
1168	Graphite. Proceedings of the VLDB Endowment, 2020, 13, 783-797.	2.1	7
1169	ThunderRW. Proceedings of the VLDB Endowment, 2021, 14, 1992-2005.	2.1	13
1170	Materials Image Informatics Using Deep Learning. , 2020, , 205-230.		2
1171	Vortex: Extreme-Performance Memory Abstractions for Data-Intensive Streaming Applications. , 2020, , .		2
1172	Just move it!. Proceedings of the VLDB Endowment, 2021, 14, 2707-2710.	2.1	2
1173	RealGraph web. Proceedings of the VLDB Endowment, 2021, 14, 2775-2778.	2.1	0
1174	Knowledge Graphs. Synthesis Lectures on Data, Semantics and Knowledge, 2021, 12, 1-257.	3.9	63
1175	Adaptive Asynchronous Parallelization of Graph Algorithms. ACM Transactions on Database Systems, 2020, 45, 1-45.	1.5	6

#	Article	IF	Citations
1176	HyPC-Map: A Hybrid Parallel Community Detection Algorithm Using Information-Theoretic Approach. , 2021, , .		3
1177	GO: Out-Of-Core Partitioning of Large Irregular Graphs. , 2021, , .		1
1178	Secure Graph Analysis at Scale. , 2021, , .		17
1180	Accelerating temporal action proposal generation via high performance computing. Frontiers of Computer Science, 2022, 16, 1.	1.6	2
1181	Hybrid Stochastic Computing Circuits in Continuous Statistics Domain. , 2020, , .		0
1182	Benefits of Stabilization versus Rollback in Self-Stabilizing Graph-Based Applications on Eventually Consistent Key-Value Stores. , 2020, , .		1
1183	On The Distributed Determinization Of Large NFAs. , 2020, , .		2
1184	A FPGA based intra-parallel architecture for PageRank graph processing. , 2020, , .		3
1185	HOOVER: Leveraging OpenSHMEM for High Performance, Flexible Streaming Graph Applications. , 2020, , .		0
1186	GDLL: A Scalable and Share Nothing Architecture Based Distributed Graph Neural Networks Framework. IEEE Access, 2022, 10, 21684-21700.	2.6	0
1187	Automated Large-Scale Mapping of the Jahazpur Mineralised Belt by a MapReduce Model with an Integrated ELM Method. PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 2022, 90, 191-209.	0.7	3
1188	SimGQ+: Simultaneously evaluating iterative point-to-all and point-to-point graph queries. Journal of Parallel and Distributed Computing, 2022, 164, 12-27.	2.7	3
1189	Dynamic graph computing: A method of finding companion vehicles from traffic streaming data. Information Sciences, 2022, 591, 128-141.	4.0	8
1191	GP3D: 3D NAND Based In-Memory Graph Processing Accelerator. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 500-507.	2.7	4
1192	Accelerated Distributed Approximate Newton Method. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8642-8653.	7.2	3
1193	NEPG: Partitioning Large-Scale Power-Law Graphs. Lecture Notes in Computer Science, 2022, , 668-690.	1.0	0
1194	Optimizing the interval-centric distributed computing model for temporal graph algorithms. , 2022, , .		3
1195	ThunderGP: Resource-Efficient Graph Processing Framework on FPGAs with HLS. ACM Transactions on Reconfigurable Technology and Systems, 2022, 15, 1-31.	1.9	4

#	Article	IF	Citations
1196	Bipartite network embedding with Symmetric Neighborhood Convolution. Expert Systems With Applications, 2022, 198, 116757.	4.4	3
1198	HET. Proceedings of the VLDB Endowment, 2021, 15, 312-320.	2.1	27
1199	Issues and Algorithm of Distributed Shared Memory. , 2021, , .		0
1200	Temporal Pattern Recognition in Graph Data Structures. , 2021, , .		3
1201	Efficient Scalable Temporal Web Graph Store. , 2021, , .		0
1202	HSNR: A Network Representation Learning Algorithm Using Hierarchical Structure Embedding. Chinese Journal of Electronics, 2020, 29, 1141-1152.	0.7	1
1206	Efficient Asynchronous GCN Training on a GPU Cluster. , 2021, , .		0
1207	Improving Locality of Irregular Updates with Hardware Assisted Propagation Blocking. , 2022, , .		0
1208	Graph partitioning and visualization in graph mining: a survey. Multimedia Tools and Applications, 2022, 81, 43315-43356.	2.6	4
1210	PACk. Proceedings of the VLDB Endowment, 2022, 15, 1132-1145.	2.1	1
1211	A Hierarchical Contraction Scheme for Querying Big Graphs. , 2022, , .		3
1212	Software-defined floating-point number formats and their application to graph processing. , 2022, , .		0
1213	NuPS: A Parameter Server for Machine Learning with Non-Uniform Parameter Access. , 2022, , .		7
1214	Graph partitioning strategies: one size does not fit all. Journal of Supercomputing, 0, , .	2.4	0
1215	HET-GMP: A Graph-based System Approach to Scaling Large Embedding Model Training. , 2022, , .		7
1219	A Modern Primer on Processing inÂMemory. Computer Architecture and Design Methodologies, 2023, , 171-243.	0.5	24
1221	Information and Influence Propagation in Social Networks. Synthesis Lectures on Data Management, 2014, , .	0.6	51
1222	DPS: Dynamic Pricing and Scheduling for Distributed Machine Learning Jobs in Edge-Cloud Networks. IEEE Transactions on Mobile Computing, 2023, 22, 6377-6393.	3.9	3

#	Article	IF	Citations
1223	Out-of-Core Edge Partitioning at Linear Run-Time. , 2022, , .		8
1224	SLUGGER: Lossless Hierarchical Summarization of Massive Graphs. , 2022, , .		3
1225	Personalized Graph Summarization: Formulation, Scalable Algorithms, and Applications. , 2022, , .		3
1226	Analyzing Online Transaction Networks with Network Motifs. , 2022, , .		2
1227	An Efficient Query Recovery Attack Against aÂGraph Encryption Scheme. Lecture Notes in Computer Science, 2022, , 325-345.	1.0	0
1228	Banyan. Proceedings of the VLDB Endowment, 2022, 15, 2045-2057.	2.1	0
1229	Big graphs. Proceedings of the VLDB Endowment, 2022, 15, 3782-3797.	2.1	6
1230	Toward Fast and Scalable Random Walks over Disk-Resident Graphs via Efficient I/O Management. ACM Transactions on Storage, 2022, 18, 1-33.	1.4	1
1231	A Twig-Based Algorithm for Top-k Subgraph Matching in Large-Scale Graph Data. Big Data Research, 2022, 30, 100350.	2.6	1
1232	EndGraph: An Efficient Distributed Graph Preprocessing System. , 2022, , .		0
1233	ReGraph: Scaling Graph Processing on HBM-enabled FPGAs with Heterogeneous Pipelines. , 2022, , .		7
1234	Architecting Optically Controlled Phase Change Memory. Transactions on Architecture and Code Optimization, 2022, 19, 1-26.	1.6	7
1235	XPGraph: XPline-Friendly Persistent Memory Graph Stores for Large-Scale Evolving Graphs. , 2022, , .		3
1236	RealGraph ^{GPU} : A High-Performance GPU-Based Graph Engine toward Large-Scale Real-World Network Analysis. , 2022, , .		0
1237	The essence of online data processing. , 2022, 6, 899-928.		0
1238	Software Systems Implementation and Domain-Specific Architectures towards Graph Analytics. , 2022, 2022, .		2
1239	An efficient hardware accelerator for monotonic graph algorithms on dynamic directed graphs. Scientia Sinica Informationis, 2023, 53, 1575.	0.2	0
1240	A Streaming Graph Partitioning Method to Achieve High Cohesion and Equilibrium via Multiplayer Repeated Game. IEEE Transactions on Computational Social Systems, 2024, 11, 803-814.	3.2	0

#	Article	IF	Citations
1241	DRONE: An Efficient Distributed Subgraph-Centric Framework for Processing Large-Scale Power-law Graphs. IEEE Transactions on Parallel and Distributed Systems, 2023, 34, 463-474.	4.0	2
1242	Approaches Involving Big Data Analytics (BDA) Using Machine Learning, Described. , 2022, , .		2
1244	An unsupervised learning-guided multi-node failure-recovery model for distributed graph processing systems. Journal of Supercomputing, 0, , .	2.4	0
1245	GraphSD: A State and Dependency aware Out-of-Core Graph Processing System. , 2022, , .		0
1246	A Comparative Study of Large Automata Distributed Processing. , 2022, , .		0
1250	Graph Processing Frameworks. , 2022, , 1-11.		0
1251	Giraph Dynamic Sized Structure Recurrent Subgraph Generation Algorithm for Frequent Subgraph Mining. , 2022, , .		0
1252	ACF2: Accelerating Checkpoint-Free Failure Recovery forÂDistributed Graph Processing. Lecture Notes in Computer Science, 2023, , 45-59.	1.0	0
1253	Parallel Machine Learning Algorithm. , 0, , 12-15.		3
1254	Generalizing Graph Neural Network across Graphs and Time. , 2023, , .		1
1255	Blaze: Fast Graph Processing on Fast SSDs. , 2022, , .		0
1256	Scaling Stratified Stochastic Gradient Descent for Distributed Matrix Completion. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 10603-10615.	4.0	1
1257	EPGraph: An Efficient Graph Computing Model in Persistent Memory System. , 2022, , .		1
1259	HAEP: Heterogeneous Environment Aware Edge Partitioning forÂPower-Law Graphs. Lecture Notes in Computer Science, 2023, , 331-340.	1.0	0
1261	OMRGx: Programmable and Transparent Out-of-Core Graph Partitioning and Processing. , 2023, , .		0
1264	RealGraph+: A High-Performance Single-Machine-Based Graph Engine that Utilizes IO Bandwidth Effectively. , 2023, , .		0
1265	A Divisive Approach for All Pairs Shortest Path on Large-Scale Graphs with Limited Resources. Communications in Computer and Information Science, 2023, , 385-397.	0.4	0
1266	Optimizing Graph Partition by Optimal Vertex-Cut: A Holistic Approach. , 2023, , .		1

#	Article	IF	Citations
1267	LightTraffic: On Optimizing CPU-GPU Data Traffic for Efficient Large-scale Random Walks. , 2023, , .		0
1268	Distributed (Î±, Î²)-Core Decomposition over Bipartite Graphs. , 2023, , .		0
1269	AFaVS: Accurate Yet Fast Version Switching for Graph Processing Systems. , 2023, , .		0
1274	SuperCut. , 2023, , .		0
1276	SAILOR: Structural Augmentation Based Tail Node Representation Learning. , 2023, , .		0
1280	A Case Study of an Adaptive Delta-Stepping Algorithm in OpenMP. , 2023, , .		0
1283	Expressway: Prioritizing Edges for Distributed Evaluation of Graph Queries. , 2023, , .		0
1285	A Mixed-State Streaming Edge Partitioning based on Combinatorial Design. , 2023, , .		0
1287	GraphCube: Interconnection Hierarchy-aware Graph Processing. , 2024, , .		0
1288	NPGraph: An Efficient Graph Computing Model inÂNUMA-Based Persistent Memory Systems. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2024, , 205-222.	0.2	0