Kurt Rothermel

List of Publications by Year
in descending order

42 papers	840 citations	567281 15 h-index	552781 26 g-index
42 all docs	42 docs citations	42 times ranked	619 citing authors

#	Article	IF	Citations
1	Dynamic QoS-Aware Traffic Planning for Time-Triggered Flows in the Real-Time Data Plane. IEEE Transactions on Network and Service Management, 2022, 19, 1807-1825.	4.9	8
2	Flexible application-aware approximation for modern distributed graph processing frameworks. , 2022, , .		1
3	Replication Schemes for Highly Available Workflow Engines. IEEE Transactions on Services Computing, 2021, 14, 559-573.	4.6	4
4	Controller and Triggering Mechanism Co-design for Control Over Time-Slotted Networks. IEEE Transactions on Control of Network Systems, 2021, 8, 222-232.	3.7	3
5	Scalable k-out-of-n models for dependability analysis with Bayesian networks. Reliability Engineering and System Safety, 2021, 210, 107533.	8.9	5
6	Time-Triggered Traffic Planning for Data Networks with Conflict Graphs. , 2020, , .		7
7	Integration of Communication Networks and Control Systems Using a Slotted Transmission Classification Model. , 2019, , .		6
8	pSPICE: Partial Match Shedding for Complex Event Processing. , 2019, , .		8
9	eSPICE. , 2019, , .		12
10	GrapH: Traffic-Aware Graph Processing. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 1289-1302.	5.6	22
11	Enabling interactive mobile simulations through distributed reduced models. Pervasive and Mobile Computing, 2018, 45, 19-34.	3.3	2
12	Incremental Flow Scheduling and Routing in Time-Sensitive Software-Defined Networks. IEEE Transactions on Industrial Informatics, 2018, 14, 2066-2075.	11.3	132
13	HYPE: Massive Hypergraph Partitioning with Neighborhood Expansion. , 2018, , .		9
14	Exploring Practical Limitations of Joint Routing and Scheduling for TSN with ILP. , 2018, , .		53
15	ZeroSDN: A Highly Flexible and Modular Architecture for Full-Range Distribution of Event-Based Network Control. IEEE Transactions on Network and Service Management, 2018, 15, 1207-1221.	4.9	18
16	Routing algorithms for IEEE802.1Qbv networks. ACM SIGBED Review, 2018, 15, 13-18.	1.8	36
17	Q-graph. , 2018, , .		4
18	Expressive Content-Based Routing in Software-Defined Networks. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 2460-2477.	5.6	6

#	Article	IF	Citations
19	Addressing TCAM Limitations of Software-Defined Networks for Content-Based Routing. , 2017, , .		8
20	High Performance Publish/Subscribe Middleware in Software-Defined Networks. IEEE/ACM Transactions on Networking, 2017, 25, 1501-1516.	3.8	30
21	HAWKS: A System for Highly Available Executions of Workflows. , 2016, , .		2
22	Consistent Network Management for Software-Defined Networking Based Multicast. IEEE Transactions on Network and Service Management, 2016, 13, 447-461.	4.9	16
23	Predictable Low-Latency Event Detection With Parallel Complex Event Processing. IEEE Internet of Things Journal, 2015, 2, 274-286.	8.7	56
24	A cost efficient scheduling strategy to guarantee probabilistic workflow deadlines. , 2015, , .		2
25	PLEROMA. , 2014, , .		30
26	Increasing Availability of Workflows Executing in a Pervasive Environment. , 2014, , .		6
27	PShare: Ensuring location privacy in non-trusted systems through multi-secret sharing. Pervasive and Mobile Computing, 2013, 9, 339-352.	3.3	13
28	Context-aware and quality-aware algorithms for efficient mobile object management. Pervasive and Mobile Computing, 2012, 8, 131-146.	3.3	5
29	Efficient real-time trajectory tracking. VLDB Journal, 2011, 20, 671-694.	4.1	56
30	Low overhead assignment of symbolic coordinates in sensor networks. Telecommunication Systems, 2009, 40, 117-128.	2.5	2
31	On the impact of a more realistic physical layer on MANET simulations results. Ad Hoc Networks, 2008, 6, 61-78.	5.5	39
32	Experiences with node virtualization for scalable network emulation. Computer Communications, 2007, 30, 943-956.	5.1	24
33	Simulating mobile ad hoc networks in city scenarios. Computer Communications, 2007, 30, 1466-1475.	5.1	4
34	Hypergossiping: A generalized broadcast strategy for mobile ad hoc networks. Ad Hoc Networks, 2007, 5, 531-546.	5.5	43
35	Management and configuration issues for sensor networks. International Journal of Network Management, 2005, 15, 235-253.	2.2	31
36	Optimal branching factor for tree-based reliable multicast protocols. Computer Communications, 2002, 25, 1018-1027.	5.1	4

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37	A Comparison of Protocols for Updating Location Information. Cluster Computing, 2001, 4, 355-367.	5.0	40
38	Guest editorial: Mobile software agents. Personal and Ubiquitous Computing, 1998, 2, 47-48.	0.6	0
39	An adaptive protocol for synchronizing media streams. Multimedia Systems, 1997, 5, 324-336.	4.7	31
40	Concurrency control issues in nested transactions. VLDB Journal, 1993, 2, 39-74.	4.1	54
41	A communication mechanism supporting actions. Computer Networks, 1988, 15, 97-108.	1.0	3
42	Concepts for transaction recovery in nested transactions. SIGMOD Record, 1987, 16, 239-248.	1.2	5