

# Katia Obraczka

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

2,809  
citations

567281

15  
h-index

526287

27  
g-index

49  
all docs

49  
docs citations

49  
times ranked

2864  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Software-Defined Networking: Past, Present, and Future of Programmable Networks. IEEE Communications Surveys and Tutorials, 2014, 16, 1617-1634.	39.4	1,623
2	Energy-Efficient, Collision-Free Medium Access Control for Wireless Sensor Networks. Wireless Networks, 2006, 12, 63-78.	3.0	297
3	Routing in Delay-Tolerant Networks Comprising Heterogeneous Node Populations. IEEE Transactions on Mobile Computing, 2009, 8, 1132-1147.	5.8	156
4	A survey on congestion control for delay and disruption tolerant networks. Ad Hoc Networks, 2015, 25, 480-494.	5.5	86
5	Flooding for Reliable Multicast in Multi-Hop Ad Hoc Networks. Wireless Networks, 2001, 7, 627-634.	3.0	83
6	Modeling the performance of flooding in wireless multi-hop Ad hoc networks. Computer Communications, 2006, 29, 949-956.	5.1	47
7	Solar-powered, wireless smart camera network: An IoT solution for outdoor video monitoring. Computer Communications, 2018, 118, 217-233.	5.1	47
8	Game Theoretic Stochastic Routing for Fault Tolerance and Security in Computer Networks. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1227-1240.	5.6	43
9	Wireless Smart Camera Networks for the Surveillance of Public Spaces. Computer, 2014, 47, 37-44.	1.1	42
10	Machine learning for next-generation intelligent transportation systems: A survey. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	3.9	33
11	Modeling Communication Networks With Hybrid Systems. IEEE/ACM Transactions on Networking, 2007, 15, 630-643.	3.8	32
12	Dynamic Controller Assignment in Software Defined Internet of Vehicles Through Multi-Agent Deep Reinforcement Learning. IEEE Transactions on Network and Service Management, 2021, 18, 585-596.	4.9	26
13	Smart Experts for Network State Estimation. IEEE Transactions on Network and Service Management, 2016, 13, 622-635.	4.9	21
14	Pressure Injury Prevention: A Survey. IEEE Reviews in Biomedical Engineering, 2020, 13, 352-368.	18.0	20
15	A Machine Learning Approach to End-to-End RTT Estimation and its Application to TCP. , 2011, , .		18
16	Scalable team multicast in wireless ad hoc networks exploiting coordinated motion. Ad Hoc Networks, 2004, 2, 171-184.	5.5	16
17	A congestion control framework for delay- and disruption tolerant networks. Ad Hoc Networks, 2019, 91, 101880.	5.5	15
18	Collision-free medium access based on traffic forecasting. , 2012, , .		14

#	ARTICLE	IF	CITATIONS
19	Scale-Free Properties of Human Mobility and Applications to Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3736-3748.	8.0	14
20	FLIP: A Flexible Interconnection Protocol for Heterogeneous Internetworking. Mobile Networks and Applications, 2004, 9, 347-361.	3.3	12
21	Harnessing UAVs for Fair 5G Bandwidth Allocation in Vehicular Communication via Deep Reinforcement Learning. IEEE Transactions on Network and Service Management, 2021, 18, 4063-4074.	4.9	12
22	Exploring Landmark Placement Strategies for Self-Localization in Wireless Sensor Networks. , 2007, , .		11
23	Collision-Free Asynchronous Multi-Channel Access in Ad Hoc Networks. , 2009, , .		11
24	On the Invariance of Spatial Node Density for Realistic Mobility Modeling. , 2011, , .		11
25	Dynamically distributed network control for message dissemination in ITS. , 2017, , .		11
26	A Deep Learning Approach for Identifying User Communities Based on Geographical Preferences and Its Applications to Urban and Environmental Planning. ACM Transactions on Spatial Algorithms and Systems, 2020, 6, 1-24.	1.4	10
27	An adaptive redundancy protocol for mesh based multicasting. Computer Communications, 2007, 30, 1015-1028.	5.1	9
28	The case for using traffic forecasting in schedule-based channel access. , 2011, , .		9
29	Isolines: efficient spatio-temporal data aggregation in sensor networks. Wireless Communications and Mobile Computing, 2009, 9, 357-367.	1.2	7
30	Handover and Load Balancing for Distributed Network Control: Applications in ITS Message Dissemination. , 2018, , .		7
31	An Adaptive Approach to Group Communications in Multi-Hop Ad Hoc Networks. , 2002, , .		7
32	Guiding sensor-node deployment over 2.5D terrain. , 2015, , .		6
33	TerrainLOS: An Outdoor Propagation Model for Realistic Sensor Network Simulation. , 2016, , .		6
34	Guest Editorial Airborne Communication Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 1903-1906.	14.0	6
35	Statistical Equivalent Models for Computer Simulators with an Application to the Random Waypoint Mobility Model. Simulation, 2007, 83, 157-172.	1.8	5
36	An IoT System for Autonomous, Continuous, Real-Time Patient Monitoring and Its Application to Pressure Injury Management. , 2021, , .		5

#	ARTICLE	IF	CITATIONS
37	Modeling spatial node density in waypoint mobility. , 2012, , .		4
38	A machine learning approach for dynamic control of RTS/CTS in WLANs. , 2018, , .		4
39	On the symmetry of user mobility in wireless networks. , 2011, , .		3
40	A framework for modeling spatial node density in waypoint-based mobility. Wireless Networks, 2014, 20, 775-786.	3.0	3
41	SCmesh: Solar-Powered Wireless Smart Camera Mesh Network. , 2015, , .		3
42	User Community Identification Through Fine-Grained Mobility Records for Smart City Applications. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4387-4401.	8.0	3
43	An IoT-Based System for Autonomous, Continuous, Real-Time Patient Monitoring and Its Application to Pressure Injury Management. , 2021, , .		3
44	The Multi-Channel Flow-Aware Medium Access Control protocol for wireless sensor networks. , 2008, , .		2
45	On the heavy tail properties of spatial node density for realistic mobility modeling. , 2014, , .		2
46	Grid Partition: an Efficient Greedy Approach for Outdoor Camera IoT Deployments in 2.5D Terrain. , 2020, , .		2
47	Interoperability of multicast routing protocols in wirelessad hoc networks. Wireless Communications and Mobile Computing, 2006, 6, 225-234.	1.2	1
48	Characterizing Per-Application Network Traffic Using Entropy. , 2011, , .		1
49	Correction to "Exploring Mesh and Tree-Based Multicast Routing Protocols for MANETs". IEEE Transactions on Mobile Computing, 2007, 6, 237-237.	5.8	0