James Won-Ki Hong

List of Publications by Year
in descending order

80 papers	657 citations	1040056 9 h-index	1125743 13 g-index
80 all docs	80 docs citations	80 times ranked	569 citing authors

#	Article	IF	Citations
1	Design of Blockchain-based Travel Rule Compliance System. , 2022, , .		2
2	A Network Intelligence Architecture for Efficient VNF Lifecycle Management. IEEE Transactions on Network and Service Management, 2021, 18, 1476-1490.	4.9	18
3	PPTMon: Real-Time and Fine-Grained Packet Processing Time Monitoring in Virtual Network Functions. IEEE Transactions on Network and Service Management, 2021, 18, 4324-4336.	4.9	6
4	Graph neural network‐based virtual network function deployment optimization. International Journal of Network Management, 2021, 31, e2164.	2.2	5
5	GRU and EdgeQ-Learning based Traffic Prediction and Scaling of SFC. , 2021, , .		2
6	Cos-CBDC: Design and Implementation of CBDC on Cosmos Blockchain. , 2021, , .		7
7	EdgeDQN: Multiple SFC Placement in Edge Computing Environment. , 2021, , .		4
8	Accelerating Virtual Network Functions With Fast-Slow Path Architecture Using eXpress Data Path. IEEE Transactions on Network and Service Management, 2020, 17, 1474-1486.	4.9	17
9	Machine Learning-based Optimal VNF Deployment. , 2020, , .		7
10	Graph Neural Network-based Virtual Network Function Management. , 2020, , .		4
11	Measuring End-to-end Packet Processing Time in Service Function Chaining. , 2020, , .		4
12	Graph Neural Network-based Virtual Network Function Deployment Prediction. , 2020, , .		3
13	Blockchain Explorer based on RPC-based Monitoring System. , 2019, , .		5
14	Real‐time and fine‐grained network monitoring using in‐band network telemetry. International Journal of Network Management, 2019, 29, e2080.	2.2	17
15	A Deep Learning Approach to VNF Resource Prediction using Correlation between VNFs. , 2019, , .		12
16	Machine Learning-Based Method for Prediction of Virtual Network Function Resource Demands. , 2019, , .		36
17	Building Hybrid Virtual Network Functions with eXpress Data Path. , 2019, , .		2
18	Predicting VNF Deployment Decisions under Dynamically Changing Network Conditions. , 2019, , .		16

#	Article	IF	Citations
19	Machine Learning-based Prediction of VNF Deployment Decisions in Dynamic Networks. , 2019, , .		17
20	T-DCORAL: A Threshold-Based Dynamic Controller Resource Allocation for Elastic Control Plane in Software-Defined Data Center Networks. IEEE Communications Letters, 2019, 23, 198-201.	4.1	7
21	ONVisor: Towards a scalable and flexible SDNâ€based network virtualization platform on ONOS. International Journal of Network Management, 2018, 28, e2012.	2.2	16
22	HeSâ€CoP: Heuristic switchâ€controller placement scheme for distributed SDN controllers in data center networks. International Journal of Network Management, 2018, 28, e2015.	2.2	7
23	Design of RPC-based Blockchain Monitoring Agent. , 2018, , .		5
24	Towards knowledge-defined networking using in-band network telemetry. , 2018, , .		34
25	Design and Implementation of Fault-Tolerant LISP Mapping System. , 2018, , .		0
26	Live distributed controller migration for software-defined data center networks. , 2018, , .		0
27	OpenFlow-based virtual TAP using open vSwitch and DPDK. , 2018, , .		1
28	Knowledge-defined networking using in-band network telemetry. , 2017, , .		15
29	Application-aware traffic engineering in software-defined network. , 2017, , .		12
30	Architecture for building hybrid kernel-user space virtual network functions. , 2017, , .		4
31	Towards ONOS-based SDN monitoring using in-band network telemetry. , 2017, , .		33
32	OpenAPI-based message router for mashup service development. , 2017, , .		0
33	Dynamic control plane management for softwareâ€defined networks. International Journal of Network Management, 2016, 26, 111-130.	2.2	14
34	FLAME: Flow level traffic matrix estimation using poisson shot-noise process for SDN. , 2016, , .		4
35	An intent-based network virtualization platform for SDN. , 2016, , .		45
36	Measuring auto switch between Wi-Fi and mobile data networks in an urban area. , 2016, , .		2

#	Article	IF	Citations
37	A smart home control system based on context and human speech. , 2016, , .		5
38	WLANMan: A cloud-based wireless LAN management system in ONOS controllers. , 2016, , .		0
39	Graph abstraction based Virtual Network management framework for SDN. , 2016, , .		0
40	Design and implementation of LISP controller in ONOS. , 2016, , .		3
41	OFMon: OpenFlow monitoring system in ONOS controllers. , 2016, , .		19
42	Application-aware Traffic Management for OpenFlow networks. , 2016, , .		4
43	A smart home control system based on context and human speech. , 2016, , .		6
44	LISP controller: a centralized LISP management system for ISP networks. International Journal of Network Management, 2015, 25, 507-525.	2.2	9
45	Experience on the development of LISP-enabled services: An ISP perspective. , 2015, , .		5
46	PID-based adaptive control plane management method for software-defined networks. , 2015, , .		1
47	Software defined networking-based traffic engineering for data center networks. , 2014, , .		24
48	User‐centric context data collection and provision harnessing Content‐Centric Networking paradigm. International Journal of Network Management, 2014, 24, 48-69.	2.2	0
49	Flow-level traffic matrix generation for various data center networks. , 2014, , .		11
50	A cognitive model-based approach for autonomic fault management in OpenFlow networks. International Journal of Network Management, 2013, 23, 383-401.	2.2	7
51	Content-centric networking for telematics services. , 2013, , .		0
52	The impact of network performance on perceived video quality in H.264/AVC. , 2012, , .		2
53	Application traffic identification based on remote subnet grouping. , 2012, , .		0
54	Autonomic fault management based on cognitive control loops. , 2012, , .		1

#	Article	IF	Citations
55	Autonomic resource allocation for video streaming services in Content Delivery Networks. , 2012, , .		4
56	HiMang: Highly manageable network and service architecture for new generation. Journal of Communications and Networks, 2011, 13, 552-566.	2.6	3
57	A Report on the 3rd IFIP/IEEE International Workshop on Management of the Future Internet (ManFI) Tj ETQq1 1 0.784314 rgBT /Overlo	4.9	0
58	SNMP-based enterprise IP network topology discovery. International Journal of Network Management, 2011, 21, 169-184.	2.2	11
59	Information-Based Energy Efficient Sensor Selection in Wireless Body Area Networks. , 2011, , .		17
60	Near optimal demand-side energy management under real-time demand-response pricing. , 2010, , .		30
61	OMA DM-based remote software fault management for mobile devices. International Journal of Network Management, 2009, 19, 491-511.	2.2	12
62	Development and testing of an SNMP-based integrated management system for heterogeneous power line communication networks. International Journal of Network Management, 2009, 20, n/a-n/a.	2.2	2
63	The design of an Autonomic Element for managing emerging networks and services. , 2009, , .		10
64	Fault detection in IP-based process control networks using data mining. , 2009, , .		4
65	Towards management of the Future Internet. , 2009, , .		5
66	Next-generation network and service management. Annales Des Telecommunications/Annals of Telecommunications, 2008, 63, 135-136.	2.5	1
67	Measurement of download and play and streaming IPTV traffic. , 2008, 46, 154-161.		10
68	Definition of common PLC MIB and design of MIB Mapper for multi-vendor PLC network management. , 2008, , .		3
69	An Integrated Network Management System for Multi-Vendor Power Line Communication Networks. Information Networking, 2008 ICOIN 2008 International Conference on, 2008, , .	0.0	2
70	Design and Implementation of Network Management System for Power Line Communcation Network. , 2007, , .		12
71	Management of Convergence Networks and Services: A Report on APNOMS 2006. Journal of Network and Systems Management, 2006, 14, 603-608.	4.9	10
72	Operations support systems and technologies for broadband convergence networks and services in Korea. International Journal of Network Management, 2006, 16, 381-382.	2.2	0

#	ARTICLE	IF	CITATIONS
73	Power line communication network trial and management in Korea. International Journal of Network Management, 2006, 16, 443-457.	2.2	16
74	Distributed QoS monitoring and edge-to-edge QoS aggregation to manage end-to-end traffic flows in Differentiated Services networks. Journal of Communications and Networks, 2001, 3, 324-333.	2.6	3
75	Monitoring Edge-to-Edge Traffic Aggregates in Differentiated Services Networks. Journal of Network and Systems Management, 2001, 9, 267-291.	4.9	1
76	Design and implementation of a distributed multimedia collaborative environment. Cluster Computing, 1999, 2, 45-59.	5.0	7
77	A CORBA-based Distributed Multimedia Collaboration System. Series on Software Engineering and Knowledge Engineering, 1999, , 191-218.	0.1	2
78	Web-based customer network management. , 0, , .		4
79	Detection and analysis of packet loss on underutilized enterprise network links. , 0, , .		2
80	Deep Q‑network‑based auto scaling for service in a multi‑access edge computing environment. International Journal of Network Management, 0, , e2176.	2.2	6