Sang-Ha Kim

List of Publications by Year
in descending order

261	1,607	516710	454955
papers	**citations**	16	30
		h-index	**g-index**

262	262	262	1339
all docs	**docs citations**	**times ranked**	**citing authors**

#	Article	IF	Citations
1	K-Means Clustering-Based Safety System in Large-Scale Industrial Site Using Industrial Wireless Sensor Networks. Sensors, 2022, 22, 2897.	3.8	1
2	Collaborative Reliable Event Transport Based on Mobile-Assisted Sensing in Urban Digital Twin. Electronics (Switzerland), 2022, 11, 1550.	3.1	1
3	Cost-Efficient and Reliable Communication Scheme for Supporting a Mobile Device in WirelessHART of IIoT. IEEE Access, 2022, 10, 68450-68467.	4.2	0
4	Energy-Efficient and Reliable Face-Routing Scheme in Wireless Networks. Sensors, 2021, 21, 2746.	3.8	4
5	An Energy Efficient Sink Location Service for Continuous Objects in Wireless Sensor Networks. Sensors, 2020, 20, 7282.	3.8	2
6	Virtual tube storage scheme for supporting mobile sink groups in wireless sensor networks. Computer Communications, 2020, 159, 245-257.	5.1	4
7	Microscale Particulate Matter Monitoring With Reliable Event Transport in Urban Environments. IEEE Systems Journal, 2020, 14, 3057-3060.	4.6	3
8	Continuous object tracking protocol with selective wakeup based on practical boundary prediction in wireless sensor networks. Computer Networks, 2019, 162, 106854.	5.1	11
9	RECOD: reliable detection protocol for large-scale and dynamic continuous objects in wireless sensor networks. Wireless Networks, 2019, 25, 4193-4213.	3.0	0
10	Routing Graph Management for Mobility Support in Industrial Wireless Sensor Networks. , 2019, , .		1
11	Solar Power Generation Forecasting Service. , 2019, , .		1
12	Active data dissemination for mobile sink groups in wireless sensor networks. Ad Hoc Networks, 2018, 72, 56-67.	5.5	14
13	Poster Abstract: Reliable Push Notification for Mobile Users in Interactive Smart Mobile Applications. , 2018, , .		0
14	Origin-Mediated Sink Mobility Support for Large-Scale Phenomena Monitoring in IWSNs. , 2018, , .		3
15	Multipath Management Scheme for Supporting Sink Mobility in Wireless Sensor Networks. , 2017, , .		0
16	Low-Cost Multipath Routing Protocol by Adapting Opportunistic Routing in Wireless Sensor Networks. , 2017, , .		5
17	Low-cost monitoring of photovoltaic systems at panel level in residential homes based on power line communication. , 2017, , .		7
18	Vehicle location service scheme based on road map in Vehicular Sensor Networks. Computer Networks, 2017, 127, 138-150.	5.1	8

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19	Home-to-home communications for smart community with Internet of Things. , 2017, , .		4
20	Low-cost monitoring of photovoltaic systems at panel level in residential homes based on power line communication. IEEE Transactions on Consumer Electronics, 2017, 63, 435-441.	3.6	29
21	Bridging OCF devices to legacy IoT devices. , 2017, , .		3
22	The Energy Efficient and Disjointed Multipath for Void Handling in Wireless Sensor Networks. , 2017, , .		0
23	Multi-site photovoltaic power generation forecasts based on deep-learning algorithm. , 2017, , .		5
24	Energy-efficient lookahead face routing using coverage range in wireless networks. , 2017, , .		0
25	Dynamic Anchors Based Void Avoidance Scheme for Real-Time Application in WSNs. , 2017, , .		1
26	Transfer-Efficient Face Routing Using the Planar Graphs of Neighbors in High Density WSNs. Sensors, 2017, 17, 2402.	3.8	1
27	Multipath-based opportunistic routing scheme for large-scale wireless sensor network. , 2016, , .		0
28	Design and implementation of healthcare resource model on IoTivity platform. , 2016, , .		14
29	Photovoltaic energy sharing system in a multifamily residential house to reduce total energy costs. , 2016, , .		7
30	Efficient Sink Location Service for prolonging the network lifetime in wireless sensor networks. , 2016, , .		3
31	Farthest destination selection and Shortest Path Connection strategy for efficient multicasting in Vehicular Ad Hoc Networks. , 2016, , .		3
32	Handling sink group mobility in wireless sensor networks. , 2016, , .		0
33	Poster Abstract: Enhanced Real-Time Transmission Using Time Gain in Wireless Sensor Networks. , 2016, , .		0
34	Social wireless sensor network toward device-to-device interactive Internet of Things services. International Journal of Distributed Sensor Networks, 2016, 12, 155014771666425.	2.2	2
35	Economic analysis for energy trading system connected with Energy Storage System and renewable Energy Sources. , 2016, , .		2
36	Void Avoidance Scheme for Real-Time Data Dissemination in Irregular Wireless Sensor Networks. , 2016, , .		5

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37	Sink Mobility Support Scheme for Continuous Object Tracking in Wireless Sensor Networks. , 2016, , .		7
38	A gateway based fog computing architecture for wireless sensors and actuator networks. , 2016, , .		31
39	A gateway based fog computing architecture for wireless sensors and actuator networks. , 2016, , .		16
40	RTCO: Reliable Tracking for Continuous Objects Using Redundant Boundary Information in Wireless Sensor Networks. IEICE Transactions on Communications, 2016, E99.B, 1464-1480.	0.7	0
41	A flexible real-time multicasting protocol in multi-hop industrial cyber physical system. , 2016, , .		0
42	User-friendly monitoring system for residential PV system based on low-cost power line communication. , 2015, , .		3
43	Reliable continuous object tracking with cost effectiveness in wireless sensor networks. , 2015, , .		1
44	User-friendly monitoring system for residential PV system based on low-cost power line communication. IEEE Transactions on Consumer Electronics, 2015, 61, 175-180.	3.6	44
45	Large-scale mobile phenomena monitoring with energy-efficiency in wireless sensor networks. Computer Networks, 2015, 81, 116-135.	5.1	24
46	Robust mutual trust architecture for safety critical service in heterogeneous mobile network environment. Telecommunication Systems, 2015, 60, 275-284.	2.5	3
47	Design and analysis of novel quorum-based sink location service scheme in wireless sensor networks. Wireless Networks, 2014, 20, 493-509.	3.0	6
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49	Smart home energy management system including renewable energy based on ZigBee and PLC. , 2014, , .		42
50	Smart home energy management system including renewable energy based on ZigBee and PLC. IEEE Transactions on Consumer Electronics, 2014, 60, 198-202.	3.6	328
51	IoT routing architecture with autonomous systems of things. , 2014, , .		23
52	PLC-based photovoltaic system management for smart home energy management system. , 2014, , .		10
53	Rendezvous-based data dissemination for supporting mobile sinks in multi-hop clustered wireless sensor networks. Wireless Networks, 2014, 20, 2319-2336.	3.0	19
54	A continuous object tracking protocol suitable for practical wireless sensor networks. , 2013, , .		0

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55	An opportunistic routing for real-time data in Wireless Sensor Networks. , 2013, , .		3
56	A Chaining Selective Wakeup Strategy for a Robust Continuous Object Tracking in Practical Wireless Sensor Networks. , 2013, , .		6
57	Virtual Line-Based Data Dissemination for Mobile Sink Groups in Wireless Sensor Networks. IEEE Communications Letters, 2013, 17, 1864-1867.	4.1	24
58	Band-based geocasting for mobile sink groups in wireless sensor networks. Wireless Networks, 2013, 19, 1285-1298.	3.0	2
59	Quorum-based location service in Vehicular Sensor Networks. , 2013, , .		4
60	Localized disjoint multipath routing protocol in irregular wireless sensor networks. , 2013, , .		2
61	Distributed Forwarder Selection for Beaconless Real-Time Routing in Wireless Sensor Networks. , 2013, , .		2
62	Overlay Multicast Protocol with Proxy Districts for Dynamic Wireless Sensor Networks. , 2013, , .		3
63	Real-time data dissemination for slowly-varying mobile sinks in wireless sensor networks. , 2013, , .		0
64	Distributed multicast protocol based on beaconless routing for wireless sensor networks. , 2013, , .		0
65	Independent Grid Structure-Based Routing Protocol in Wireless Sensor Networks. IEICE Transactions on Communications, 2013, E96.B, 309-312.	0.7	1
66	B-Geocasting: Effective data dissemination protocol to support group mobility of sinks. , 2012, , .		0
67	A proposal of semantic multimedia contents retrieval framework for Smart TV. , 2012, , .		2
68	Radio-Disjoint Geographic Multipath Routing for Reliable Data Transfer in Lossy WSNs. , 2012, , .		2
69	Seamless and secure P2P communication scheme for mobile Internet devices behind NAT. , 2012, , .		2
70	Selective wakeup discipline for continuous object tracking in grid-based wireless sensor networks. , 2012, , .		10
71	A Reliable Communication Strategy for Real-Time Data Dissemination in Wireless Sensor Networks. , 2012, , .		2
72	Implicit Location Update Enhanced Reliability for Mobile Sinks in WSNs. , 2012, , .		1

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73	Reliable and flexible detection of large-scale phenomena on wireless sensor networks. IEEE Communications Letters, 2012, 16, 933-936.	4.1	10
74	Reliable and energy-efficient routing protocol for mobile sink groups in wireless sensor networks. , 2012, , .		2
75	Efficient Continuous Object Tracking with Virtual Grid in Wireless Sensor Networks. , 2012, , .		5
76	A Radio-disjoint Geographic Multipath Routing in Wireless Sensor Networks. , 2012, , .		9
77	Quorum based sink location service for irregular wireless sensor networks. Computer Communications, 2012, 35, 1422-1432.	5.1	8
78	A novel reliable data dissemination protocol for real-time data in wireless sensor networks. , 2012, , .		2
79	Data dissemination protocol with hole masking algorithm in grid-based wireless sensor networks. , 2012, , .		0
80	Scalable location guide overlay multicast in mobile *ad hoc* networks using tree partition scheme. Wireless Communications and Mobile Computing, 2012, 12, 969-984.	1.2	0
81	Energy-Efficient Boundary Monitoring for Large-Scale Continuous Objects. IEICE Transactions on Communications, 2012, E95.B, 2451-2454.	0.7	1
82	Local Location Search Based Progressive Geographic Multicast Protocol in Wireless Sensor Networks. IEICE Transactions on Communications, 2012, E95.B, 1419-1422.	0.7	0
83	Communication Reliability Support with the Minimum Number of Totally Transmitted Packets in Wireless Sensor Networks. IEICE Transactions on Communications, 2012, E95.B, 2455-2458.	0.7	0
84	M-geocasting for mobile sink groups in wireless sensor networks. , 2011, , .		0
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86	Grid-Based Group Communication Protocol for Mobile Sink Groups in WSNs. , 2011, , .		0
87	Communication Strategy to Reflect Group Mobility Issue of Mobile Sinks in Wireless Sensor Networks. , 2011, , .		1
88	Seamless and Secure Service Framework in Heterogeneous Mobile Network Environment. , 2011, , .		1
89	A Cluster-Based Continuous Object Tracking Scheme in Wireless Sensor Networks. , 2011, , .		16
90	Real-Time Multicasting Protocol in Wireless Sensor Networks. , 2011, , .		1

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91	Real-Time Routing Protocol Based on Expect Grids for Mobile Sinks in Wireless Sensor Networks. , 2011, , .		7
92	Cluster-Based Communication for Mobile Sink Groups in Large-Scale Wireless Sensor Networks. IEICE Transactions on Communications, 2011, E94-B, 307-310.	0.7	1
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94	Geographic Multicast Protocol for Mobile Sinks in Wireless Sensor Networks. IEEE Communications Letters, 2011, 15, 1320-1322.	4.1	7
95	Novel service protocol for supporting remote and mobile users in wireless sensor networks with multiple static sinks. Wireless Networks, 2011, 17, 861-875.	3.0	18
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97	Data Dissemination Scheme for Mobile Sink Group Based on Movement Behavior in Wireless Sensor Networks. , 2011, , .		2
98	A design of authentication architecture for service safety in heterogeneous network. , 2011, , .		0
99	Reliability Support Protocol for Continuous Object Detection in Large-Scale Wireless Sensor Networks. , 2011, , .		0
100	Energy efficient data dissemination protocol for a mobile sink group in WSNs. , 2011, , .		2
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110	On Selection of Energy-Efficient Data Aggregation Node in Wireless Sensor Networks. IEICE Transactions on Communications, 2010, E93-B, 2436-2439.	0.7	2
111	Performance Analysis of Dynamic Spectrum Allocation in Heterogeneous Wireless Networks. ETRI Journal, 2010, 32, 292-301.	2.0	7
112	Large-Scale Phenomena Monitoring Scheme in Wireless Sensor Networks. , 2010, , .		8
113	Region Based Data Dissemination Scheme for Mobile Sink Groups in Wireless Sensor Networks. , 2010, , .		6
114	A Novel Continuous Object Tracking Scheme for Energy-Constrained Wireless Sensor Networks. , 2010, , .		5
115	An explicit disjoint multipath algorithm for Cost efficiency in wireless sensor networks. , 2010, , .		12
116	Optimized Transmission Scheme for Communication Reliability in Wireless Sensor Networks. , 2010, , .		1
117	General Sink Location Service Based on Circle and Line Paths in Wireless Sensor Networks. , 2010, , .		2
118	Energy-efficient predictive tracking for continuous objects in wireless sensor networks. , 2010, , .		10
119	OMLRP: Multi-Hop Information Based Real-Time Routing Protocol in Wireless Sensor Networks. , 2010, , .		15
120	Effective retransmission scheme for supporting Communication Reliability in sensor networks. , 2010, , .		2
121	Inter-Domain Roaming Mechanism Transparent to IPv6-Node among PMIPv6 Networks. , 2010, , .		4
122	Data dissemination scheme for Wireless Sensor Networks with mobile sink groups. , 2010, , .		1
123	Communication Scheme to Support Sink Mobility in Multi-hop Clustered Wireless Sensor Networks. , 2010, , .		18
124	Consecutive geographic multicasting protocol in large-scale wireless sensor networks. , 2010, , .		2
125	Destination-Initiated Geographic Multicasting Protocol in Wireless Ad Hoc Sensor Networks. , 2010, , .		2
126	Sink-Initiated Geographic Multicasting Protocol in Wireless Sensor Networks. , 2010, , .		2

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129	Sink Location Service Based on Circle and Line Paths in Wireless Sensor Networks. IEEE Communications Letters, 2010, 14, 710-712.	4.1	12
130	Mobile Geocasting to Support Mobile Sink Groups in Wireless Sensor Networks. IEEE Communications Letters, 2010, 14, 939-941.	4.1	29
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135	Real-Time Data Dissemination Based on Reactive and Restricted Zone Search in Sensor Networks. , 2010, , .		0
136	Dynamic Location Update Scheme for Mobile Sinks in Wireless Sensor Networks. , 2010, , .		1
137	Inter-Domain Roaming Mechanism Transparent to Mobile Nodes among PMIPv6 Networks. IEICE Transactions on Communications, 2010, E93-B, 1608-1611.	0.7	1
138	Adaptive Location Update and Paging Scheme for Mobile Broadband Wireless Access Networks. , 2009, , .		7
139	Probabilistic zone transition mobility model for Multi-Radio Overlay Networks simulation. , 2009, , .		1
140	Dynamic load balancing architecture in heterogeneous wireless network environment. , 2009, , .		27
141	Hole modeling and detour scheme for geographic routing in wireless sensor networks. Journal of Communications and Networks, 2009, 11, 327-336.	2.6	5
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145	Information communication scheme for loosely coupled mobile users in wireless sensor fields with multiple sources. , 2009, , .		1
146	Sink Location Service via Inner Rectangular in Wireless Sensor Networks. , 2009, , .		7
147	Communication Scheme Independent of Publishers and Subscribers for Large-Scale Sensor Applications. , 2009, , .		0
148	Communication Scheme for Loosely Coupled Mobile User Groups in Wireless Sensor Fields. , 2009, , .		1
149	Local data collection in geographic routing for wireless sensor networks. , 2009, , .		2
150	Probabilistic 1-D mobility model for multi-radio overlay networks simulation. , 2009, , .		0
151	Distributed Backup Scheme for Wireless Sensor Networks Using Delayed Report. , 2009, , .		0
152	LUMM: Local Update-based geographic Multicasting for Mobile sinks. , 2009, , .		0
153	Geographic routing based on on-demand neighbor position information in large-scale mobile sensor networks. , 2009, , .		2
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155	Information Communication Mechanism for Loosely Coupled Mobile User Groups in Wireless Sensor Fields. , 2009, , .		0
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158	Sink Location Service for Geographic Routing in Wireless Sensor Networks. , 2008, , .		20
159	Analysis of Service Transaction Flow Based on User's Actions to Develop KQIs for WiBro Service. , 2008, , .		1
160	A Data Dissemination Protocol Based on Multiple Virtual Grids in Wireless Sensor Network. , 2008, , .		0
161	Efficient Hole Detour Scheme for Geographic Routing in Wireless Sensor Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	29
162	A modeling component for SSF based network simulation package. , 2008, , .		1

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163	Passive Data Dissemination Scheme for Supporting Inquirer Mobility in Wireless Sensor Networks. , 2008, , .		0
164	Anchor Node Based Sink Location Dissemination Scheme for Geographic Routing. IEEE Vehicular Technology Conference, 2008, , .	0.4	3
165	Virtual Circle Based Geometric Modeling of Holes for Geographic Routing. , 2008, , .		2
166	3GE-WLAN Vertical Handover Experience using Fast Mobile IPv6. International Conference on Advanced Communication Technology, 2008, , .	0.0	2
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168	Energy-Balancing Multicast Routing Protocol for Wireless Sensor Networks. , 2008, , .		0
169	VOC Based Key Quality Indicators for High-Speed Internet Service. , 2008, , .		1
170	Definitive Link Layer Triggers for Predictive Handover Optimization. IEEE Vehicular Technology Conference, 2008, , .	0.4	2
171	An Effective Resource Management for Fair Call Admission Control using Vertical Handoff in 4G Wireless Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	3
172	Dynamic Rectangle Zone-Based Collaboration Mechanism for Tracking Continuous Objects in Wireless Sensor Networks. , 2008, , .		1
173	Dual Tunnelling Mechanism for Mobile IP Based 3G LTE-WLAN Handover. , 2008, , .		0
174	A Predictable Mobility-Based Data Dissemination Protocol for Wireless Sensor Networks. , 2008, , .		10
175	Restricted Linear Flooding Scheme to Obtain Sink Location in Wireless Sensor Networks. , 2008, , .		1
176	Energy-Efficient Mechanism for Mobility Guarantee used Location-Information in Wireless Sensor Networks. , 2008, , .		1
177	Communication Architecture to Support Multiple Mobile Users in Wireless Sensor Networks. , 2008, , .		0
178	Seamless Handover Using FMIPv6 with Effective Tunnel Management Scheme. , 2008, , .		2
179	Light-weighted Internet protocol version 6 for low-power wireless personal area networks. , 2008, , .		1
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182	A Tree Partition-Based Overlay Multicast in Mobile Ad Hoc Networks. , 2007, , .		1
183	A Hole Geometric Modeling in Wireless Sensor Networks. , 2007, , .		2
184	Efficient Overlay Multicast Protocol using Unicast Routing Information in Mobile Ad hoc Networks. International Conference on Advanced Communication Technology, 2007, , .	0.0	1
185	An Implicit Cluster-based Overlay Multicast Routing Protocol for Mobile Ad hoc Networks. International Conference on Advanced Communication Technology, 2007, , .	0.0	0
186	A Communication Architecture for Supporting Mobile User in Wireless Sensor Networks. International Conference on Advanced Communication Technology, 2007, , .	0.0	0
187	A modeling for hole problem in wireless sensor networks. , 2007, , .		30
188	A Stability-Oriented Overlay Multicast for Mobile Ad Hoc Networks. , 2007, , .		0
189	An Implicit Cluster-Based Overlay Multicast Protocol for Mobile Ad Hoc Networks. , 2007, , .		1
190	A Novel Mechanism to Support Mobility of Users in Wireless Sensor Networks Based on Multiple Static Sinks. , 2007, , .		7
191	A Communication Architecture to Reflect User Mobility Issue in Wireless Sensor Fields. , 2007, , .		22
192	Continuous data dissemination protocol supporting mobile sinks with a sink location manager. , 2007, , .		7
193	An Enhanced Multi-path Scheme for QoS Guarantee in Wireless Sensor Network. , 2007, , .		1
194	Efficient Overlay Multicast Protocol in Mobile Ad hoc Networks. IEEE Vehicular Technology Conference, 2007, , .	0.4	2
195	IGAP: an Information GAthering Protocol for mobile user in infrastructureless area. International Conference on Advanced Communication Technology, 2007, , .	0.0	2
196	A Data Delivery Mechanism to Support Mobile Users in Wireless Sensor Networks. International Conference on Advanced Communication Technology, 2007, , .	0.0	4
197	An Edge Nodes Energy Efficient Hole Modeling in Wireless Sensor Networks. , 2007, , .		10
198	A predictable mobility-based communication paradigm for wireless sensor networks. , 2007, , .		0

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199	A Novel Routing Path Discovery and Data Delivery Scheme for Ubiquitous Internet Connectivity Based on Hierarchical Mobile AODV6 Networks. IEEE Vehicular Technology Conference, 2007, , .	0.4	4
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207	A Proposed Platform &amp; Performance Estimation of Digital-Home Service Delivery/Management Systems. , 2006, , .		1
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211	Resilient data delivery in delay bounded overlay multicast. , 2006, , .		0
212	Backup path resource share mechanism using SDLG in optical networks. , 2006, 6354, 411.		0
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215	Two Alternative Registration and Paging Schemes for Supporting Idle Mode in IEEE 802.16e Wireless MAN. , 2006, , .		3
216	A Hybrid MAC Protocol Based on Implicit Token and CSMA/CA for Wireless Network. Lecture Notes in Computer Science, 2006, , 643-650.	1.3	0

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219	New CAC Algorithm using Adaptive Modulation Control. , 2005, , 173-186.		0
220	Scalable Quasi-Dynamic-Provisioning-Based Admission Control Mechanism in Differentiated Service Networks. ETRI Journal, 2004, 26, 27-37.	2.0	6
221	Multicast delivery using explicit multicast over IPv6 networks. IEEE Communications Letters, 2003, 7, 91-93.	4.1	10
222	Scalable IPv6 multi-homing scheme based on end-to-end argument. IEEE Communications Letters, 2003, 7, 340-342.	4.1	4
223	Scalable qDPMsub 2 mechanism: admission control for differentiated service networks. IEEE Communications Letters, 2003, 7, 454-456.	4.1	0
224	Explicit Multicast Extension (Xcast+) for Efficient Multicast Packet Delivery. ETRI Journal, 2001, 23, 202-204.	2.0	34
225	QoS based routing for integrated multimedia services. , 0, , .		0
226	Polynomial algorithm for min-cost delay-constrained multicasting routing problem in networks. , 0, , .		1
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228	A simulation study of interoperative methods for congestion control over TCP/ATM. , 0, , .		0
229	A multicasting strategy for multiple heterogeneous networks. , 0, , .		0
230	Domain based approach for QoS provisioning over Mobile IP. , 0, , .		0
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