

# Takahiro Hara

## List of Publications by Citations

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149  
papers

1,392  
citations

16  
h-index

32  
g-index

201  
ext. papers

1,809  
ext. citations

2.6  
avg, IF

4.8  
L-index

#	Paper	IF	Citations
149	Localization algorithms of Wireless Sensor Networks: a survey. <i>Telecommunication Systems</i> , <b>2013</b> , 52, 2419-2436	2.3	282
148	A survey on communication and data management issues in mobile sensor networks. <i>Wireless Communications and Mobile Computing</i> , <b>2014</b> , 14, 19-36	1.9	89
147	Replica Allocation Methods in Ad Hoc Networks with Data Update. <i>Mobile Networks and Applications</i> , <b>2003</b> , 8, 343-354	2.9	81
146	Path planning using a mobile anchor node based on trilateration in wireless sensor networks. <i>Wireless Communications and Mobile Computing</i> , <b>2013</b> , 13, 1324-1336	1.9	67
145	. <i>IEEE Transactions on Communications</i> , <b>2017</b> , 65, 663-676	6.9	44
144	Consistency Management Strategies for Data Replication in Mobile Ad Hoc Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2009</b> , 8, 950-967	4.6	38
143	Cooperative target tracking by a mobile bionanosensor network. <i>IEEE Transactions on Nanobioscience</i> , <b>2014</b> , 13, 267-77	3.4	31
142	Methods and Applications of Mobile Molecular Communication. <i>Proceedings of the IEEE</i> , <b>2019</b> , 107, 1442-1456	11.5	28
141	Data Gathering Using Mobile Agents for Reducing Traffic in Dense Mobile Wireless Sensor Networks. <i>Mobile Information Systems</i> , <b>2013</b> , 9, 295-314	1.4	26
140	A balanced energy consumption sleep scheduling algorithm in wireless sensor networks <b>2011</b> ,		25
139	Wikipedia-Based Semantic Similarity Measurements for Noisy Short Texts Using Extended Naive Bayes. <i>IEEE Transactions on Emerging Topics in Computing</i> , <b>2015</b> , 3, 205-219	4.1	23
138	Quantifying Impact of Mobility on Data Availability in Mobile Ad Hoc Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2010</b> , 9, 241-258	4.6	22
137	A Message Processing Method for Top-k Query for Traffic Reduction in Ad Hoc Networks <b>2009</b> ,		19
136	A Genetic Algorithm Approach to Multi-Agent Itinerary Planning in Wireless Sensor Networks. <i>Mobile Networks and Applications</i> , <b>2011</b> , 16, 782-793	2.9	18
135	Updated data dissemination methods for updating old replicas in ad hoc networks. <i>Personal and Ubiquitous Computing</i> , <b>2005</b> , 9, 273-283	2.1	17
134	People-Centric Internet of Things <b>2017</b> , 55, 18-19		16
133	Data Replication Considering Power Consumption in Ad Hoc Networks <b>2007</b> ,		16

132	Dummy Generation Based on User-Movement Estimation for Location Privacy Protection. <i>IEEE Access</i> , <b>2018</b> , 6, 22958-22969	3.5	15
131	A Top-k Query Method by Estimating Score Distribution in Mobile Ad Hoc Networks <b>2010</b> ,		14
130	Distributing Nanomachines for Minimizing Mean Residence Time of Molecular Signals in Bionanosensor Networks. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 218-227	4	13
129	Autonomous mobile bionanosensor networks for target tracking: A two-dimensional model. <i>Nano Communication Networks</i> , <b>2014</b> , 5, 63-71	2.9	13
128	A proposed security scheme against Denial of Service attacks in cluster-based wireless sensor networks. <i>Security and Communication Networks</i> , <b>2014</b> , 7, 2542-2554	1.9	12
127	Target Detection and Tracking by Bionanosensor Networks. <i>SpringerBriefs in Computer Science</i> , <b>2016</b> ,	0.4	12
126	Pure copper layer formation on pure copper substrate using multi-beam laser cladding system with blue diode lasers. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	11
125	\$K\$ NN Query Processing Methods in Mobile Ad Hoc Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2014</b> , 13, 1090-1103	4.6	11
124	Detecting Local Events by Analyzing Spatiotemporal Locality of Tweets <b>2013</b> ,		11
123	A geographic routing oriented sleep scheduling algorithm in duty-cycled sensor networks <b>2012</b> ,		11
122	Two-Phase Top-k Query Processing in Mobile Ad Hoc Networks <b>2011</b> ,		11
121	Leader-Follower-Amplifier Based Mobile Molecular Communication Systems for Cooperative Drug Delivery <b>2018</b> ,		11
120	k Nearest Neighbor Search for Location-Dependent Sensor Data in MANETs. <i>IEEE Access</i> , <b>2015</b> , 3, 942-954	3.5	10
119	Mining Top-k Co-Occurrence Patterns across Multiple Streams. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2017</b> , 29, 2249-2262	4.2	10
118	Impacts of duty-cycle on TPGF geographical multipath routing in wireless sensor networks <b>2010</b> ,		10
117	A Data Reception Method to Reduce Interruption Time in P2P Streaming Environments <b>2010</b> ,		10
116	Efficient processing of top-k dominating queries in distributed environments. <i>World Wide Web</i> , <b>2016</b> , 19, 545-577	2.9	10
115	Space Filling Approach for Distributed Processing of Top-k Dominating Queries. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2018</b> , 30, 1150-1163	4.2	9

114	A Robust Routing Method for Top-k Queries in Mobile Ad Hoc Networks <b>2013</b> ,		9
113	A next location prediction method for smartphones using blockmodels <b>2013</b> ,		9
112	Overhearing-Based Data Transmission Reduction for Periodical Data Gathering in Wireless Sensor Networks <b>2009</b> ,		9
111	X-Sensor: A Sensor Network Testbed Integrating Multiple Networks <b>2009</b> ,		9
110	A DNN-Based Cross-Domain Recommender System for Alleviating Cold-Start Problem in E-Commerce. <i>IEEE Open Journal of the Industrial Electronics Society</i> , <b>2020</b> , 1, 194-206	3.6	9
109	Top-k Query Processing and Malicious Node Identification Based on Node Grouping in MANETs. <i>IEEE Access</i> , <b>2016</b> , 4, 993-1007	3.5	9
108	Sliding window top-k dominating query processing over distributed data streams. <i>Distributed and Parallel Databases</i> , <b>2016</b> , 34, 535-566	0.9	8
107	Human activity recognition for a content search system considering situations of smartphone users <b>2012</b> ,		8
106	Extraction of Bilingual Terminology from a Multilingual Web-based Encyclopedia. <i>Journal of Information Processing</i> , <b>2008</b> , 16, 68-79	0.2	8
105	Inbody mobile bionanosensor networks through non-diffusion-based molecular communication <b>2015</b> ,		7
104	Distributed top-k query processing on multi-dimensional data with keywords <b>2015</b> ,		7
103	How Does Mobile Context Affect People's Web Search Behavior?: A Diary Study of Mobile Information Needs and Search Behaviors <b>2012</b> ,		7
102	Implementing top-k query in duty-cycled wireless sensor networks <b>2011</b> ,		7
101	Geo-Social Keyword Top-k Data Monitoring over Sliding Window. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 409-424	0.9	7
100	A content search system considering the activity and context of a mobile user. <i>Personal and Ubiquitous Computing</i> , <b>2013</b> , 17, 1035-1050	2.1	6
99	Modeling and performance evaluation of mobile bionanosensor networks for target tracking <b>2014</b> ,		6
98	A proportional fairness backoff scheme for funnelling effect in wireless sensor networks. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2012</b> , 23, 585-597	1.9	6
97	The Insights of DV-Based Localization Algorithms in the Wireless Sensor Networks with Duty-Cycled and Radio Irregular Sensors <b>2011</b> ,		6

96	RPR: recommendation for passengers by roads based on cloud computing and taxis traces data. <i>Personal and Ubiquitous Computing</i> , <b>2016</b> , 20, 337-347	2.1	6
95	Subscription-based data aggregation techniques for top-k monitoring queries. <i>World Wide Web</i> , <b>2017</b> , 20, 237-265	2.9	5
94	Environment-Adaptive Malicious Node Detection in MANETs with Ensemble Learning <b>2018</b> ,		5
93	A Routing Method for Top-k Query Processing in Mobile Ad Hoc Networks <b>2013</b> ,		5
92	Content comparison functions for mobile co-located collaborative web search. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2011</b> , 2, 239-248	3.7	5
91	Data Replication for Top-k Query Processing in Mobile Wireless Sensor Networks <b>2010</b> ,		5
90	On a TDMA Slot Assignment Considering the Amount of Traffic in Wireless Sensor Networks <b>2009</b> ,		5
89	A web browsing system for cellular-phone users based on adaptive presentation. <i>Universal Access in the Information Society</i> , <b>2007</b> , 6, 259-271	2.5	5
88	Random Cell Motion Enhances the Capacity of Cell-Cell Communication. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , <b>2019</b> , 5, 158-162	2.3	5
87	Epidemic Information Dissemination in Mobile Molecular Communication Systems <b>2018</b> ,		5
86	Efficient cluster-based top-k query routing with data replication in MANETs. <i>Soft Computing</i> , <b>2017</b> , 21, 4161-4178	3.5	4
85	Lamps: Location-Aware Moving Top-k Pub/Sub. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2020</b> , 1-1	4.2	4
84	Data management issues in mobile ad hoc networks. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , <b>2017</b> , 93, 270-296	4	4
83	Top-k Query Processing and Malicious Node Identification against Data Replacement Attack in MANETs <b>2014</b> ,		4
82	A Communication Protocol to Improve Fairness and Data Amount on Sensor Data Collection with a Mobile Sink <b>2010</b> ,		4
81	Removing Heavily Curved Path: Improved DV-hop Localization in Anisotropic Sensor Networks <b>2011</b> ,		4
80	A Dynamic Cluster Construction Method Based on Query Characteristics in Peer-to-Peer Networks <b>2009</b> ,		4
79	A kNN Query Processing Method in Mobile Ad Hoc Networks <b>2011</b> ,		4

78	A content search system for mobile devices based on user context recognition <b>2012</b> ,		4
77	A scheduling of database migration in wide-area networks. <i>Systems and Computers in Japan</i> , <b>2000</b> , 31, 10-19		4
76	Wikipedia Mining Challenge for Realizing Early Profits, The Kick Off. <i>Transactions of the Japanese Society for Artificial Intelligence</i> , <b>2009</b> , 24, 549-557	0.7	4
75	Efficient framework for processing top-k queries with replication in mobile ad hoc networks. <i>GeoInformatica</i> , <b>2019</b> , 23, 591-620	2.5	3
74	Data Gathering Considering Geographical Distribution of Data Values in Dense Mobile Wireless Sensor Networks <b>2013</b> ,		3
73	In Silico Experiments of Mobile Bionanosensor Networks for Target Tracking <b>2015</b> ,		3
72	Data Forwarding Method Based on Status of Connection with Multiple Mobile Sinks in Wireless Sensor Networks <b>2012</b> ,		3
71	Mobile and Wireless Networks. <i>Mobile Information Systems</i> , <b>2010</b> , 6, 1-3	1.4	3
70	Secured Two Phase Geographic Forwarding Protocol in Wireless Multimedia Sensor Networks <b>2010</b> ,		3
69	Sleep scheduling towards geographic routing in duty-cycled sensor networks with a mobile sink <b>2011</b> ,		3
68	Filtering Order Adaptation Based on Attractor Selection for Data Broadcasting System <b>2009</b> ,		3
67	Scheduling Strategies Of Correlated Broadcast Data In Push-Based Systems. <i>Infor</i> , <b>2001</b> , 39, 152-173	0.5	3
66	A dynamic replica allocation method based on database migration in broadband networks. <i>Systems and Computers in Japan</i> , <b>2000</b> , 31, 22-32		3
65	Distributed Spatial-Keyword kNN Monitoring for Location-aware Pub/Sub <b>2020</b> ,		3
64	Detecting Door Events Using a Smartphone via Active Sound Sensing <b>2018</b> , 2, 1-26		3
63	Comparison Study On UAV Movement for Adapting to Multimedia Burst in Post-Disaster Networks <b>2018</b> ,		2
62	Efficient Z-Order Encoding Based Multi-Modal Data Compression in WSNs <b>2017</b> ,		2
61	A WSN Testbed for Z-Order Encoding Based Multi-Modal Sensor Data Compression <b>2017</b> ,		2

60	Overhearing-Based Efficient Boundary Detection in Dense Mobile Wireless Sensor Networks <b>2014</b> ,		2
59	Energy Efficient Data Access in Mobile Ad Hoc Networks <b>2010</b> ,		2
58	A Flooding Control Method with Ack-carry for Location-Based Information Dissemination in Mobile Ad Hoc Networks <b>2011</b> ,		2
57	Quantifying sensing coverage and data delivery delay in mobile sensor networks <b>2011</b> ,		2
56	Autonomous data gathering mechanism with transmission reduction for wireless sensor networks <b>2011</b> ,		2
55	An Evaluation of Overhearing-Based Data Transmission Reduction in Wireless Sensor Networks <b>2009</b> ,		2
54	REPLICA LOCATION MANAGEMENT FOR DATA SHARING IN MOBILE AD HOC NETWORKS. <i>Journal of Interconnection Networks</i> , <b>2006</b> , 07, 75-89	0.4	2
53	An Update Propagation Strategy for Delay Reduction and Node Failure Tolerance in Peer-to-Peer Networks <b>2007</b> ,		2
52	A Data Dissemination Method for Information Sharing Based on Inter-Vehicle Communication <b>2007</b> ,		2
51	Feat-SKSJ <b>2021</b> ,		2
50	A Probabilistic Model for Predicting E-commerce Purchases from Emerging Local and Social Interests <b>2020</b> ,		2
49	Multi-model Z-compression for high speed data streaming and low-power wireless sensor networks. <i>Distributed and Parallel Databases</i> , <b>2020</b> , 38, 153-191	0.9	2
48	Estimating the Physical Distance between Two Locations with Wi-Fi Received Signal Strength Information Using Obstacle-aware Approach <b>2018</b> , 2, 1-26		2
47	Optimal Replica Distribution in Edge-Node-Assisted Cloud-P2P Platforms for Real-Time Streaming. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 8637-8646	6.8	2
46	Cross-species behavior analysis with attention-based domain-adversarial deep neural networks. <i>Nature Communications</i> , <b>2021</b> , 12, 5519	17.4	2
45	Dealing with noise in crowdsourced GPS human trajectory logging data. <i>Concurrency Computation Practice and Experience</i> , <b>2021</b> , 33, e6139	1.4	2
44	Processing Convex Hull Queries in MANETs <b>2015</b> ,		1
43	Interruption time reduction methods with finer data division for streaming delivery on hybrid broadcasting environments <b>2013</b> ,		1

42	Agent Redeployment and Missing Data Regathering in Mobile Wireless Sensor Networks <b>2013</b> ,		1
41	IEEE Access Special Section Editorial: Emergent Topics for Mobile and Ubiquitous Systems in Smartphone, IOT, and Cloud Computing ERA. <i>IEEE Access</i> , <b>2017</b> , 5, 27827-27830	3.5	1
40	Efficient Multidimensional Top-kQuery Processing in Wireless Multihop Networks. <i>Mobile Information Systems</i> , <b>2015</b> , 2015, 1-20	1.4	1
39	Signature-Based Top-k Query Processing against Data Replacement Attacks in MANETs <b>2015</b> ,		1
38	Energy-Efficient Data Gathering Using Sleep Scheduling and Spatial Interpolation in Wireless Sensor Networks <b>2010</b> ,		1
37	Investigating Impact of Quorum Construction on Data Processing in Mobile Ad Hoc Networks <b>2010</b> ,		1
36	A Dynamic Route Construction Method Based on Measured Characteristics of Radio Propagation in Wireless Sensor Networks <b>2011</b> ,		1
35	A Content Clipping System for Web Browsing Using Cellular Phones <b>2009</b> ,		1
34	Route Construction Based on Measured Characteristics of Radio Propagation in Wireless Sensor Networks <b>2009</b> ,		1
33	Energy-Efficient Data Gathering Using Sleep Scheduling and Spatial Correlation Based on Data Distribution in Wireless Sensor Networks <b>2011</b> ,		1
32	A P2P Network Construction Method Based on Cycle of Sensing and Location in Ubiquitous Sensor Environment <b>2011</b> ,		1
31	Effective Node Deployment in Sparse Mobile Sensor Networks. <i>Journal of Information Processing</i> , <b>2012</b> , 20, 104-113	0.2	1
30	An Energy-Efficient Data Gathering Mechanism using Traveling Wave and Spatial Interpolation for Wireless Sensor Networks. <i>Journal of Information Processing</i> , <b>2012</b> , 20, 167-176	0.2	1
29	Location management for database migration in ATM networks. <i>Systems and Computers in Japan</i> , <b>1997</b> , 28, 35-45		1
28	Updated Data Dissemination for Applications with Time Constraints in Mobile Ad Hoc Networks <b>2008</b> ,		1
27	DATA DISSEMINATION METHODS FOR TIME-CONSTRAINT APPLICATIONS IN MOBILE AD HOC NETWORKS. <i>Journal of Interconnection Networks</i> , <b>2008</b> , 09, 351-367	0.4	1
26	Wikipedia Mining for Huge Scale Japanese Association Thesaurus Construction <b>2008</b> ,		1
25	EFFECTIVE DATA DISSEMINATION FOR INFORMATION SHARING BASED ON INTER-VEHICLE COMMUNICATION. <i>Journal of Interconnection Networks</i> , <b>2007</b> , 08, 337-354	0.4	1



24	Detecting Reinforcement Learning-Based Grey Hole Attack in Mobile Wireless Sensor Networks. <i>IEICE Transactions on Communications</i> , <b>2020</b> , E103.B, 504-516	0.5	1
23	Efficient Top-k Result Diversification for Mobile Sensor Data <b>2016</b> ,		1
22	Advertiser-Assisted Behavioral Ad-Targeting via Denoised Distribution Induction <b>2019</b> ,		1
21	Backup gateways for IoT mesh network using order-k hops Voronoi diagram. <i>World Wide Web</i> , <b>2021</b> , 24, 955-970	2.9	1
20	IndoLabel: Predicting Indoor Location Class by Discovering Location-specific Sensor Data Motifs. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	1
19	Virtual Touch-Point: Trans-Domain Behavioral Targeting via Transfer Learning <b>2018</b> ,		1
18	A Social Sensor Visualization System for a Platform to Generate and Share Social Sensor Data <b>2018</b> ,		1
17	Efficient Retrieval of Top-k Weighted Spatial Triangles. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 224-231	0.9	1
16	Threshold-Based Distributed Continuous Top-k Query Processing for Minimizing Communication Overhead. <i>IEICE Transactions on Information and Systems</i> , <b>2016</b> , E99.D, 383-396	0.6	0
15	A Node Deployment Strategy for Efficient Sensing with Mobile Sensors in Sparse Sensor Networks. <i>Journal of Information Processing</i> , <b>2011</b> , 19, 103-117	0.2	0
14	Fast, exact, and parallel-friendly outlier detection algorithms with proximity graph in metric spaces. <i>VLDB Journal</i> ,1	3.9	0
13	A Low-Load Distributed Stream Processing System for Continuous Conjunctive Normal Form Queries. <i>IEEE Transactions on Cloud Computing</i> , <b>2020</b> , 1-1	3.3	0
12	Predicting temporary deal success with social media timing signals. <i>Journal of Intelligent Information Systems</i> ,1	2.1	0
11	User-Centered Design of a Scenario-Based Serious Game: Game-Based Teaching of Future Healthcare. <i>IEEE Transactions on Games</i> , <b>2020</b> , 12, 376-385	1.2	0
10	Twitter-aided decision making: a review of recent developments.. <i>Applied Intelligence</i> , <b>2022</b> , 1-16	4.9	0
9	Efficient Retrieval of Top-k Weighted Triangles on Static and Dynamic Spatial Data. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	0
8	Introduction to the Special Issue on Advances on Heterogeneous Wireless Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , <b>2008</b> , 4, 63-66	1.7	
7	Web Resource Categorization by Detecting Potential Relations. <i>IPSJ Digital Courier</i> , <b>2008</b> , 4, 103-113		

6 Query processing methods considering the deadline of queries for database broadcasting systems. *Systems and Computers in Japan*, **2007**, 38, 21-31

5 An information browsing system using a Java-based cellular phone in a remote display environment. *Systems and Computers in Japan*, **2006**, 37, 1-12

4 A distributed database system based on database migration and its mechanism for concurrency control. *Systems and Computers in Japan*, **1999**, 30, 28-37

3 Concept Drift Detection with Denoising Autoencoder in Incomplete Data. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2022**, 541-552 0.2

2 Predicting Next-use Mobile Apps Using App Semantic Representations. *Journal of Information Processing*, **2021**, 29, 597-609 0.2

1 Persona Model Transfer for User Activity Prediction Across Heterogeneous Domains. *Lecture Notes in Computer Science*, **2021**, 37-41 0.9