Salil S Kanhere

List of Publications by Year
in descending order

252	9,854	81900	106344
papers	citations	39	65
		h-index	g-index

258	258	258	7951
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	HARB: A Hypergraph-Based Adaptive Consortium Blockchain for Decentralized Energy Trading. IEEE Internet of Things Journal, 2022, 9, 14216-14227.	8.7	13
2	AQA: An Adaptive Quality Assessment Framework for Online Review Systems. IEEE Transactions on Services Computing, 2022, 15, 1486-1497.	4.6	2
3	A Survey on Recommender Systems for Internet of Things: Techniques, Applications and Future Directions. Computer Journal, 2022, 65, 2098-2132.	2.4	19
4	Automated Privacy Preferences for Smart Home Data Sharing Using Personal Data Stores. IEEE Security and Privacy, 2022, 20, 12-22.	1.2	5
5	Monetizing Parking IoT Data via Demand Prediction and Optimal Space Sharing. IEEE Internet of Things Journal, 2022, 9, 5629-5644.	8.7	4
6	A review on Virtual Reality and Augmented Reality use-cases of Brain Computer Interface based applications for smart cities. Microprocessors and Microsystems, 2022, 88, 104392.	2.8	47
7	WIDE: A witness-based data priority mechanism for vehicular forensics. Blockchain: Research and Applications, 2022, 3, 100050.	6.7	3
8	A survey of data minimisation techniques in blockchain-based healthcare. Computer Networks, 2022, 205, 108766.	5.1	16
9	A machine learning and blockchain based secure and cost-effective framework for minor medical consultations. Sustainable Computing: Informatics and Systems, 2022, 35, 100651.	2.2	9
10	Understanding and Reducing HVAC Power Consumption Post-Evacuation Events in Commercial Buildings. IEEE Internet of Things Journal, 2022, 9, 17235-17248.	8.7	0
11	Special Issue on Cybersecurity Management in the Era of AI. Journal of Network and Systems Management, 2022, 30, 1.	4.9	5
12	DIMY: Enabling privacy-preserving contact tracing. Journal of Network and Computer Applications, 2022, 202, 103356.	9.1	6
13	TrailChain: Traceability of data ownership across blockchain-enabled multiple marketplaces. Journal of Network and Computer Applications, 2022, 203, 103389.	9.1	9
14	DeTRM: Decentralised Trust and Reputation Management for Blockchain-based Supply Chains. , 2022, , .		4
15	B-FERL: Blockchain based framework for securing smart vehicles. Information Processing and Management, 2021, 58, 102426.	8.6	91
16	Cost-effective IoT devices as trustworthy data sources for a blockchain-based water management system in precision agriculture. Computers and Electronics in Agriculture, 2021, 180, 105889.	7.7	60
17	Proxy re-encryption enabled secure and anonymous IoT data sharing platform based on blockchain. Journal of Network and Computer Applications, 2021, 176, 102917.	9.1	64
18	DaaS: Dew Computing as a Service for Intelligent Intrusion Detection in Edge-of-Things Ecosystem. IEEE Internet of Things Journal, 2021, 8, 12569-12577.	8.7	46

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19	Towards a blockchain powered IoT data marketplace. , 2021, , .		12
20	VID: Human identification through vein patterns captured from commodity depth cameras. IET Biometrics, 2021, 10, 142-162.	2.5	2
21	Contextual Bandit Learning for Activity-Aware Things-of-Interest Recommendation in an Assisted Living Environment. Lecture Notes in Computer Science, 2021, , 37-49.	1.3	4
22	Appendable-Block Blockchains. Advances in Information Security, Privacy, and Ethics Book Series, 2021, , 66-88.	0.5	1
23	Keynote: Transparent, Trustworthy and Privacy-Preserving Supply Chains. , 2021, , .		1
24	Towards Automated Data Sharing in Personal Data Stores. , 2021, , .		5
25	Temporary immutability: A removable blockchain solution for prosumer-side energy trading. Journal of Network and Computer Applications, 2021, 180, 103018.	9.1	13
26	Gate-ID: WiFi-Based Human Identification Irrespective of Walking Directions in Smart Home. IEEE Internet of Things Journal, 2021, 8, 7610-7624.	8.7	28
27	Cost-Effective Blockchain-based IoT Data Marketplaces with a Credit Invariant. , 2021, , .		11
28	BlockTorrent: A privacy-preserving data availability protocol for multiple stakeholder scenarios. , 2021, , .		0
29	A Novel Model-Based Security Scheme for LoRa Key Generation. , 2021, , .		10
30	MB-EHR: A Multilayer Blockchain-based EHR. , 2021, , .		3
31	Towards Privacy-preserving Digital Contact Tracing. , 2021, , .		1
32	Efficient Data Communication Using Distributed Ledger Technology and IOTA-Enabled Internet of Things for a Future Machine-to-Machine Economy. Sensors, 2021, 21, 4354.	3.8	11
33	Trust-Based Blockchain Authorization for IoT. IEEE Transactions on Network and Service Management, 2021, 18, 1646-1658.	4.9	54
34	In Situ MIMO-WPT Recharging of UAVs Using Intelligent Flying Energy Sources. Drones, 2021, 5, 89.	4.9	5
35	Privacy-Preserving and Incentivized Contact Tracing for COVID-19 Using Blockchain. IEEE Internet of Things Magazine, 2021, 4, 72-79.	2.6	11
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37	Energy and Service-Priority aware Trajectory Design for UAV-BSs using Double Q-Learning. , 2021, , .		12
38	A Novel Blockchain-as-a-Service (BaaS) Platform for Local 5G Operators. IEEE Open Journal of the Communications Society, 2021, 2, 575-601.	6.9	25
39	Attacking with Bitcoin: Using Bitcoin to Build Resilient Botnet Armies. Advances in Intelligent Systems and Computing, 2021, , 3-12.	0.6	5
40	Context-Induced Activity Monitoring for On-Demand Things-of-Interest Recommendation in an Ambient Intelligent Environment. Future Internet, 2021, 13, 305.	3.8	3
41	Detecting Internet of Things Bots: A Comparative Study. IEEE Access, 2021, 9, 160391-160401.	4.2	8
42	Evaluating the Security of Machine Learning Based IoT Device Identification Systems Against Adversarial Examples. Lecture Notes in Computer Science, 2021, , 800-810.	1.3	2
43	MEChain: A Multi-layer Blockchain Structure with Hierarchical Consensus for Secure EHR System. , 2021, , .		1
44	TradeChain: Decoupling Traceability and Identity in Blockchain enabled Supply Chains. , 2021, , .		10
45	How disease spread dynamics evolve over time. , 2021, , .		0
46	BlockTorrent: A Blockchain Enabled Privacy-Preserving Data Availability Protocol for Multi-stakeholder Scenarios. , 2021, , .		1
47	Guest Editorial: Empowering Sustainable Energy Infrastructures via AI-Assisted Wireless Communications. IEEE Wireless Communications, 2021, 28, 10-12.	9.0	2
48	Guest Editorial: Internet of Drones: Novel Applications, Recent Deployments, and Integration. IEEE Internet of Things Magazine, 2021, 4, 8-10.	2.6	0
49	Decentralised Trustworthy Collaborative Intrusion Detection System for IoT. , 2021, , .		5
50	Traceable, trustworthy and privacy preserving agri-food supply chains. , 2021, , .		4
51	A unified framework for data integrity protection in people-centric smart cities. Multimedia Tools and Applications, 2020, 79, 4989-5002.	3.9	25
52	Measurement, Characterization, and Modeling of LoRa Technology in Multifloor Buildings. IEEE Internet of Things Journal, 2020, 7, 298-310.	8.7	73
53	Poster Abstract: A QoS-aware, Energy-efficient Trajectory Optimization for UAV Base Stations using Q-Learning. , 2020, , .		8
54	A Survey of COVID-19 Contact Tracing Apps. IEEE Access, 2020, 8, 134577-134601.	4.2	469

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55	Adaptive Two-Dimensional Embedded Image Clustering. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 4796-4803.	4.9	3
56	Evaluating Emergency Evacuation Events Using Building WiFi Data. , 2020, , .		2
57	Trajectory Optimization of Flying Energy Sources using Q-Learning to Recharge Hotspot UAVs. , 2020, , .		18
58	Echo-ID: Smart User Identification Leveraging Inaudible Sound Signals. IEEE Access, 2020, 8, 194508-194522.	4.2	1
59	Identifying Highly Influential Travellers for Spreading Disease on a Public Transport System. , 2020, , .		6
60	Exploiting constrained IoT devices in a trustless blockchain-based water management system. , 2020, , .		18
61	Leveraging lightweight blockchain to establish data integrity for surveillance cameras. , 2020, , .		14
62	A Relational Network Framework for Interoperability in Distributed Energy Trading. , 2020, , .		0
63	Trust Management in Decentralized IoT Access Control System. , 2020, , .		27
64	Context-based Smart Contracts For Appendable-block Blockchains. , 2020, , .		6
65	Protecting Private Attributes in App Based Mobile User Profiling. IEEE Access, 2020, 8, 143818-143836.	4.2	7
66	Poster Abstract: Towards Scalable and Trustworthy Decentralized Collaborative Intrusion Detection System for IoT. , 2020, , .		13
67	Is Privacy Regulation Slowing Down Research on Pervasive Computing?. Computer, 2020, 53, 44-52.	1.1	4
68	Poster Abstract: A Novel Modeling Involved Security Approach for LoRa Key Generation. , 2020, , .		2
69	A Journey in Applying Blockchain for Cyberphysical Systems. , 2020, , .		24
70	A Decentralized Peer-to-Peer Remote Health Monitoring System. Sensors, 2020, 20, 1656.	3.8	44
71	Poster Abstract: Passive Activity Classification of Smart Homes through Wireless Packet Sniffing. , 2020, , .		4
72	Interoperability and Synchronization Management of Blockchain-Based Decentralized e-Health Systems. IEEE Transactions on Engineering Management, 2020, 67, 1363-1376.	3.5	56

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77	A Technology-driven Overview on Blockchain-based Academic Certificate Handling. Advances in Educational Technologies and Instructional Design Book Series, 2020, , 197-223.	0.2	5
78	EMIoT. , 2020, , .		1
79	Energy-aware Demand Selection and Allocation for Real-time IoT Data Trading. , 2020, , .		13
80	ACOMTA: An Ant Colony Optimisation based Multi-Task Assignment Algorithm for Reverse Auction based Mobile Crowdsensing. , 2020, , .		0
81	Towards Decentralized IoT Updates Delivery Leveraging Blockchain and Zero-Knowledge Proofs. , 2020, , .		4
82	Towards a Distributed Defence Mechanism Against IoT-based Bots. , 2020, , .		1
83	SPB: A Secure Private Blockchain-Based Solution for Distributed Energy Trading. IEEE Communications Magazine, 2019, 57, 120-126.	6.1	69
84	Crowd Management. IEEE Communications Magazine, 2019, 57, 18-19.	6.1	17
85	Proactive Eavesdropping via Jamming for Trajectory Tracking of UAVs. , 2019, , .		6
86	Recent Trends in User Authentication â€" A Survey. IEEE Access, 2019, 7, 112505-112519.	4.2	49
87	Measuring and Modeling Car Park Usage: Lessons Learned from a Campus Field-Trial. , 2019, , .		3
88	MRA: A modified reverse auction based framework for incentive mechanisms in mobile crowdsensing systems. Computer Communications, 2019, 145, 137-145.	5.1	9
89	The Design, Implementation, and Deployment of a Smart Lighting System for Smart Buildings. IEEE Internet of Things Journal, 2019, 6, 7266-7281.	8.7	53
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91	Blockchain based Proxy Re-Encryption Scheme for Secure IoT Data Sharing. , 2019, , .		77
92	Peer-to-Peer EnergyTrade: A Distributed Private Energy Trading Platform. , 2019, , .		26
93	Source-Aware Crisis-Relevant Tweet Identification and Key Information Summarization. ACM Transactions on Internet Technology, 2019, 19, 1-20.	4.4	6
94	How Mobility Patterns Drive Disease Spread: A Case Study Using Public Transit Passenger Card Travel Data. , 2019, , .		8
95	LSB: A Lightweight Scalable Blockchain for IoT security and anonymity. Journal of Parallel and Distributed Computing, 2019, 134, 180-197.	4.1	281
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100	Improving IoT Data Quality in Mobile Crowd Sensing: A Cross Validation Approach. IEEE Internet of Things Journal, 2019, 6, 5651-5664.	8.7	63
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103	AETD: An Application-Aware, Energy-Efficient Trajectory Design for Flying Base Stations. , 2019, , .		10
104	Zero-Shot Object Detection with Textual Descriptions. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 8690-8697.	4.9	49
105	On the Activity Privacy of Blockchain for IoT. , 2019, , .		14
106	TrustChain: Trust Management in Blockchain and IoT Supported Supply Chains. , 2019, , .		167
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111	Energy Efficient Legitimate Wireless Surveillance of UAV Communications. IEEE Transactions on Vehicular Technology, 2019, 68, 2283-2293.	6.3	78
112	HydraDoctor. , 2019, , .		2
113	MOF-BC: A memory optimized and flexible blockchain for large scale networks. Future Generation Computer Systems, 2019, 92, 357-373.	7.5	73
114	Internet of Things Meets Brain–Computer Interface: A Unified Deep Learning Framework for Enabling Human-Thing Cognitive Interactivity. IEEE Internet of Things Journal, 2019, 6, 2084-2092.	8.7	56
115	Reminder Care System: An Activity-Aware Cross-Device Recommendation System. Lecture Notes in Computer Science, 2019, , 207-220.	1.3	7
116	Impact of consensus on appendable-block blockchain for IoT. , 2019, , .		13
117	A trust architecture for blockchain in IoT. , 2019, , .		70
118	STG2Seq: Spatial-Temporal Graph to Sequence Model for Multi-step Passenger Demand Forecasting. , 2019, , .		134
119	WITS: an IoT-endowed computational framework for activity recognition in personalized smart homes. Computing (Vienna/New York), 2018, 100, 369-385.	4.8	49
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121	Secure Wireless Automotive Software Updates Using Blockchains: A Proof of Concept. Lecture Notes in Mobility, 2018, , 137-149.	0.2	37
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124	Automatic Device Classification from Network Traffic Streams of Internet of Things. , 2018, , .		66
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127	Realizing a Smart University Campus: Vision, Architecture, and Implementation. , 2018, , .		15
128	Gargoyle: A Network-based Insider Attack Resilient Framework for Organizations. , 2018, , .		4
129	Toward Mitigation-as-a-Service in Cooperative Network Defenses. , 2018, , .		8
130	Data-Driven Monitoring and Optimization of Classroom Usage in a Smart Campus. , 2018, , .		13
131	Wi-Access: Second Factor User Authentication leveraging WiFi Signals. , 2018, , .		8
132	SpeedyChain. , 2018, , .		76
133	Wi-Sign. , 2018, , .		9
134	ProductChain: Scalable Blockchain Framework to Support Provenance in Supply Chains. , 2018, , .		109
135	Gwardar: Towards Protecting a Software-Defined Network from Malicious Network Operating Systems. , 2018, , .		4
136	Demo: A Delay-Tolerant Payment Scheme on the Ethereum Blockchain. , 2018, , .		7
137	Demo Abstract: A Tool to Access and Visualize Classroom Attendance Data from a Smart Campus. , 2018, , .		0
138	Converting Your Thoughts to Texts: Enabling Brain Typing via Deep Feature Learning of EEG Signals. , 2018, , .		53
139	Algorithmic Governance in Smart Cities: The Conundrum and the Potential of Pervasive Computing Solutions. IEEE Technology and Society Magazine, 2018, 37, 80-87.	0.8	31
140	Multi-Agent Systems: A Survey. IEEE Access, 2018, 6, 28573-28593.	4.2	440
141	A Game-Theoretic Approach to Quality Improvement in Crowdsourcing Tasks. Lecture Notes in Business Information Processing, 2018, , 116-130.	1.0	2
142	Reliable and Secure End-to-End Data Aggregation Using Secret Sharing in WSNs. , 2017, , .		11
143	Towards an Optimized BlockChain for IoT. , 2017, , .		309
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145	Blockchain for IoT security and privacy: The case study of a smart home. , 2017, , .		1,003
146	Applications and Challenges of Wearable Visual Lifeloggers. Computer, 2017, 50, 60-69.	1.1	5
147	Sustainable Incentives for Mobile Crowdsensing: Auctions, Lotteries, and Trust and Reputation Systems. , 2017, 55, 68-74.		94
148	PELE: Power efficient legitimate eavesdropping via jamming in UAV communications. , 2017, , .		12
149	BlockChain: A Distributed Solution to Automotive Security and Privacy. , 2017, 55, 119-125.		593
150	Instrumenting Wireless Sensor Networks â€" A survey on the metrics that matter. Pervasive and Mobile Computing, 2017, 37, 45-62.	3.3	50
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152	EGAIM. , 2017, , .		3
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154	WiCare. , 2017, , .		14
155	Energy Harvesting Wearables Can Tell Which Train Route You Have Taken. , 2016, , .		3
156	WashInDepth. , 2016, , .		6
157	Comprehensive mobile bandwidth traces from vehicular networks. , 2016, , .		18
158	Towards Policy Enforcement Point as a Service (PEPS). , 2016, , .		4
159	On the importance of link characterization for aerial wireless sensor networks. , 2016, 54, 52-57.		89
160	QuickFind: Fast and contact-free object detection using a depth sensor. , 2016, , .		2
161	A context-based privacy preserving framework for wearable visual lifeloggers. , 2016, , .		16
162	Implementation and evaluation of adaptive video streaming based on Markov decision process. , 2016, , .		4

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163	WiFi-ID: Human Identification Using WiFi Signal. , 2016, , .		160
164	Platform zero: a step closer to ubiquitous computing. Concurrency Computation Practice and Experience, 2016, 28, 688-706.	2.2	1
165	Reliable transmissions in AWSNs by using O-BESPAR hybrid antenna. Pervasive and Mobile Computing, 2016, 30, 151-165.	3.3	4
166	Constructing a Shortest Path Overhearing Tree with Maximum Lifetime in WSNs. , 2016, , .		5
167	Energy-Efficient Cooperative Relaying for Unmanned Aerial Vehicles. IEEE Transactions on Mobile Computing, 2016, 15, 1377-1386.	5.8	161
168	Incentive Mechanism Design for Heterogeneous Crowdsourcing Using All-Pay Contests. IEEE Transactions on Mobile Computing, 2016, 15, 2234-2246.	5.8	56
169	SenseFlow. , 2015, , .		19
170	Crowdsourcing with Tullock contests: A new perspective. , 2015, , .		60
171	Empirical evaluation of MDP-based DASH player. , 2015, , .		3
172	Predicting the region of interest for dynamic foveated streaming. , 2015, , .		2
173	Lightweight clustering of spatio-temporal data in resource constrained mobile sensing. , 2015, , .		0
174	Trust-based privacy-aware participant selection inÂsocial participatory sensing. Journal of Information Security and Applications, 2015, 20, 11-25.	2.5	50
175	Sparse representation based acoustic rangefinders: from sensor platforms to mobile devices. , 2015, 53, 249-257.		8
176	A socially-aware incentive scheme for social participatory sensing. , 2015, , .		5
177	EPLA: Energy-balancing packets scheduling for airborne relaying networks. , 2015, , .		17
178	From MANET to people-centric networking: Milestones and open research challenges. Computer Communications, 2015, 71, 1-21.	5.1	61
179	Optimizing HTTP-Based Adaptive Streaming in Vehicular Environment Using Markov Decision Process. IEEE Transactions on Multimedia, 2015, 17, 2297-2309.	7.2	45
180	Ear-Phone: A context-aware noise mapping using smart phones. Pervasive and Mobile Computing, 2015, 17, 1-22.	3.3	80

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181	RFT. , 2015, , .		7
182	ProfileGuard. , 2014, , .		12
183	SEW-ing a Simple Endorsement Web to incentivize trustworthy participatory sensing. , 2014, , .		22
184	Reliable positioning with hybrid antenna model for aerial wireless sensor and actor networks. , 2014, , .		9
185	Creating personal bandwidth maps using opportunistic throughput measurements. , 2014, , .		4
186	Characterising user targeting for in-App Mobile Ads. , 2014, , .		19
187	On the need for a reputation system in mobile phone based sensing. Ad Hoc Networks, 2014, 12, 130-149.	5.5	63
188	A Reputation Framework for Social Participatory Sensing Systems. Mobile Networks and Applications, 2014, 19, 88-100.	3.3	79
189	TrustMeter: A trust assessment scheme for collaborative privacy mechanisms in participatory sensing applications. , 2014, , .		8
190	Trajectory Approximation for Resource Constrained Mobile Sensor Networks. , 2014, , .		1
191	A distributed mechanism for dynamic resource trading in cooperative mobile video streaming. , 2014, , .		0
192	Randomised multipath routing for secure data collection. , 2014, , .		3
193	Optimal Prizes for All-Pay Contests in Heterogeneous Crowdsourcing. , 2014, , .		39
194	Î²-FSOM: Fair Link Scheduling Optimization for Energy-Aware Data Collection in Mobile Sensor Networks. Lecture Notes in Computer Science, 2014, , 17-33.	1.3	5
195	Can Smart Plugs Predict Electric Power Consumption? A Case Study. , 2014, , .		4
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200	A Trust-Based Recruitment Framework for Multi-hop Social Participatory Sensing. , 2013, , .		23
201	HTTP-Based Adaptive Streaming for Mobile Clients using Markov Decision Process. , 2013, , .		38
202	Trust assessment in social participatory networks. , 2013, , .		6
203	IncogniSense: An anonymity-preserving reputation framework for participatory sensing applications. Pervasive and Mobile Computing, 2013, 9, 353-371.	3.3	82
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207	Utilizing Link Characterization for Improving the Performance of Aerial Wireless Sensor Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 1639-1649.	14.0	20
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209	A Trust Framework for Social Participatory Sensing Systems. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 237-249.	0.3	9
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211	On the characterisation of vehicular mobility in a large-scale public transport network. International Journal of Ad Hoc and Ubiquitous Computing, 2012, 11, 68.	0.5	2
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213	Improving QoS in High-Speed Mobility Using Bandwidth Maps. IEEE Transactions on Mobile Computing, 2012, 11, 603-617.	5.8	71
214	IncogniSense: An anonymity-preserving reputation framework for participatory sensing applications. , 2012, , .		36
215	Reliable communications in aerial sensor networks by using a hybrid antenna. , 2012, , .		5
216	Towards changing the user perception of mobile communications through geotagged information. , 2012, , .		2

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218	Participatory Sensing: Crowdsourcing Data from Mobile Smartphones in Urban Spaces. , 2011, , .		151
219	A survey on privacy in mobile participatory sensing applications. Journal of Systems and Software, 2011, 84, 1928-1946.	4.5	362
220	A pragmatic approach to area coverage in hybrid wireless sensor networks. Wireless Communications and Mobile Computing, 2011, 11, 23-45.	1.2	14
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222	Multipath Fading Effect on Spatial Packet Loss Correlation in Wireless Networks. , 2011, , .		3
223	Link characterization for Aerial Wireless Sensor Networks. , 2011, , .		23
224	Privacy-Preserving Collaborative Path Hiding for Participatory Sensing Applications. , 2011, , .		35
225	Empirical Evaluation of HTTP Adaptive Streaming under Vehicular Mobility. Lecture Notes in Computer Science, 2011, , 92-105.	1.3	32
226	Preserving privacy in participatory sensing systems. Computer Communications, 2010, 33, 1266-1280.	5.1	103
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228	Quality Improvement of Mobile Video Using Geo-Intelligent Rate Adaptation. , 2010, , .		11
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