Amr Mohamed

List of Publications by Year
in descending order

241 papers	4,375 citations	218677 26 h-index	155660 55 g-index
243 all docs	243 docs citations	243 times ranked	4017 citing authors

#	Article	IF	Citations
1	Video transcoding at the edge: cost and feasibility perspective. Cluster Computing, 2023, 26, 157-180.	5.0	1
2	3-D Stochastic Geometry-Based Modeling and Performance Analysis of Efficient Security Enhancement Scheme for IoT Systems. IEEE Internet of Things Journal, 2022, 9, 6663-6677.	8.7	3
3	An Intelligent Resource Reservation for Crowdsourced Live Video Streaming Applications in Geo-Distributed Cloud Environment. IEEE Systems Journal, 2022, 16, 240-251.	4.6	9
4	Distributed CNN Inference on Resource-Constrained UAVs for Surveillance Systems: Design and Optimization. IEEE Internet of Things Journal, 2022, 9, 1227-1242.	8.7	21
5	Spatiotemporal data mining: a survey on challenges and open problems. Artificial Intelligence Review, 2022, 55, 1441-1488.	15.7	40
6	Deep Reinforcement Learning for Network Selection Over Heterogeneous Health Systems. IEEE Transactions on Network Science and Engineering, 2022, 9, 258-270.	6.4	17
7	Optimal User-Edge Assignment in Hierarchical Federated Learning Based on Statistical Properties and Network Topology Constraints. IEEE Transactions on Network Science and Engineering, 2022, 9, 55-66.	6.4	50
8	On Designing Smart Agents for Service Provisioning in Blockchain-Powered Systems. IEEE Transactions on Network Science and Engineering, 2022, 9, 401-415.	6.4	10
9	Communication-efficient hierarchical federated learning for IoT heterogeneous systems with imbalanced data. Future Generation Computer Systems, 2022, 128, 406-419.	7.5	45
10	Fuzzy Elliptic Curve Cryptography for Authentication in Internet of Things. IEEE Internet of Things Journal, 2022, 9, 9987-9998.	8.7	10
11	Evolution of Internet of Things From Blockchain to IOTA: A Survey. IEEE Access, 2022, 10, 844-866.	4.2	27
12	FSC-Set: Counting, Localization of Football Supporters Crowd in the Stadiums. IEEE Access, 2022, 10, 10445-10459.	4.2	10
13	RL-DistPrivacy: Privacy-Aware Distributed Deep Inference for Low Latency IoT Systems. IEEE Transactions on Network Science and Engineering, 2022, 9, 2066-2083.	6.4	6
14	Multi-Agent Reinforcement Learning for Network Selection and Resource Allocation in Heterogeneous Multi-RAT Networks. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1287-1300.	7.9	12
15	RLENS: RL-based Energy-Efficient Network Selection Framework for IoMT. , 2022, , .		0
16	ViDMASK dataset for face mask detection with social distance measurement. Displays, 2022, 73, 102235.	3.7	10
17	PLS Performance Analysis of a Hybrid NOMA-OMA based IoT System with Mobile Sensors. , 2022, , .		1
18	Dynamic Network Slicing and Resource Allocation for 5G-and-Beyond Networks. , 2022, , .		9

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19	FEDGAN-IDS: Privacy-preserving IDS using GAN and Federated Learning. Computer Communications, 2022, 192, 299-310.	5.1	23
20	I-SEE: Intelligent, Secure, and Energy-Efficient Techniques for Medical Data Transmission Using Deep Reinforcement Learning. IEEE Internet of Things Journal, 2021, 8, 6454-6468.	8.7	7
21	A Weighted Machine Learning-Based Attacks Classification to Alleviating Class Imbalance. IEEE Systems Journal, 2021, 15, 4780-4791.	4.6	11
22	Drone-SCNet: Scaled Cascade Network for Crowd Counting on Drone Images. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 3988-4001.	4.7	9
23	Multicast at Edge: An Edge Network Architecture for Service-Less Crowdsourced Live Video Multicast. IEEE Access, 2021, 9, 59508-59526.	4.2	9
24	Privacy-Preserving Distributed IDS Using Incremental Learning for IoT Health Systems. IEEE Access, 2021, 9, 14271-14283.	4.2	27
25	RL-PDNN: Reinforcement Learning for Privacy-Aware Distributed Neural Networks in IoT Systems. IEEE Access, 2021, 9, 54872-54887.	4.2	5
26	QuicTor: Enhancing Tor for Real-Time Communication Using QUIC Transport Protocol. IEEE Access, 2021, 9, 28769-28784.	4.2	9
27	Energy-Efficient Networks Selection Based Deep Reinforcement Learning for Heterogeneous Health Systems. , 2021, , .		0
28	Active Learning With Noisy Labelers for Improving Classification Accuracy of Connected Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 3059-3070.	6.3	13
29	Hierarchical Security Paradigm for IoT Multiaccess Edge Computing. IEEE Internet of Things Journal, 2021, 8, 5794-5805.	8.7	31
30	MMRL: A Multi-Modal Reinforcement Learning Technique for Energy-efficient Medical IoT Systems. , 2021, , .		1
31	Rational Contracts: Data-driven Service Provisioning in Blockchain-powered Systems. , 2021, , .		0
32	Hierarchical Federated Learning for Collaborative IDS in IoT Applications. , 2021, , .		16
33	B5G: Predictive Container Auto-Scaling for Cellular Evolved Packet Core. , 2021, , .		1
34	CAE Adaptive Compression, Transmission Energy and Cost Optimization for m-Health Systems. , 2021, , .		0
35	ONSRA: an Optimal Network Selection and Resource Allocation Framework in multi-RAT Systems. , 2021, , .		3
36	UAVs Smart heuristics for Target Coverage and Path Planning Through Strategic Locations. , 2021, , .		2

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37	Reinforcement learning approaches for efficient and secure blockchain-powered smart health systems. Computer Networks, 2021, 197, 108279.	5.1	16
38	MEdge-Chain: Leveraging Edge Computing and Blockchain for Efficient Medical Data Exchange. IEEE Internet of Things Journal, 2021, 8, 15762-15775.	8.7	75
39	Energy-Aware Distributed Edge ML for mHealth Applications with Strict Latency Requirements. IEEE Wireless Communications Letters, 2021, , 1-1.	5.0	5
40	Performance Analysis of PLS key generation-based Secure NOMA-enabled IoT Networks in the presence of Untrusted Users. , 2021, , .		0
41	B5G: Predictive Container Auto-Scaling for Cellular Evolved Packet Core. IEEE Access, 2021, 9, 158204-158214.	4.2	2
42	Smart and Secure Blockchain-based Healthcare System Using Deep Q-Learning. , 2021, , .		2
43	Energy-Efficient Device Assignment and Task Allocation in Multi-Orchestrator Mobile Edge Learning. , 2021, , .		1
44	Hierarchical Federated Learning over HetNets enabled by Wireless Energy Transfer. , 2021, , .		2
45	Security Performance Analysis of a Health System using Hybrid NOMA-OMA based IoT System. , 2021, , .		1
46	Patient-Driven Network Selection in multi-RAT Health Systems Using Deep Reinforcement Learning. , 2021, , .		0
47	Multi-layer security scheme for implantable medical devices. Neural Computing and Applications, 2020, 32, 4347-4360.	5.6	14
48	PCCP: Proactive Video Chunks Caching and Processing in edge networks. Future Generation Computer Systems, 2020, 105, 44-60.	7.5	26
49	FacebookVideoLive18: A Live Video Streaming Dataset for Streams Metadata and Online Viewers Locations. , 2020, , .		13
50	EEG-based Analysis Study for Patients Receiving Intravenous Antibiotic Medication. , 2020, , .		1
51	Smart Edge Healthcare Data Sharing System. , 2020, , .		5
52	Iterative Per Group Feature Selection For Intrusion Detection. , 2020, , .		2
53	Optimizing Energy-Distortion Trade-off for Vital Signs Delivery in Mobile Health Applications. , 2020, , .		1
54	Machine Learning Based Cloud Computing Anomalies Detection. IEEE Network, 2020, 34, 178-183.	6.9	11

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55	CE-D2D: Collaborative and Popularity-aware Proactive Chunks Caching in Edge Networks. , 2020, , .		7
56	Blockchain Based Decentralized Trust Management framework. , 2020, , .		5
57	Collaborative hierarchical caching and transcoding in edge network with CE-D2D communication. Journal of Network and Computer Applications, 2020, 172, 102801.	9.1	13
58	A Survey of Machine and Deep Learning Methods for Internet of Things (IoT) Security. IEEE Communications Surveys and Tutorials, 2020, 22, 1646-1685.	39.4	576
59	ssHealth: Toward Secure, Blockchain-Enabled Healthcare Systems. IEEE Network, 2020, 34, 312-319.	6.9	82
60	TIDCS: A Dynamic Intrusion Detection and Classification System Based Feature Selection. IEEE Access, 2020, 8, 95864-95877.	4.2	50
61	Public Security Surveillance System Using Blockchain Technology and Advanced Image Processing Techniques. , 2020, , .		5
62	Service-Less Video Multicast in 5G: Enablers and Challenges. IEEE Network, 2020, 34, 270-276.	6.9	8
63	Deep Learning for RF-Based Drone Detection and Identification: A Multi-Channel 1-D Convolutional Neural Networks Approach. , 2020, , .		42
64	Deep learning-based security schemes for implantable medical devices. , 2020, , 109-130.		4
65	Blockchain applications for healthcare. , 2020, , 153-166.		14
66	RL-OPRA: Reinforcement Learning for Online and Proactive Resource Allocation of crowdsourced live videos. Future Generation Computer Systems, 2020, 112, 982-995.	7.5	10
67	Weighted Trustworthiness for ML Based Attacks Classification. , 2020, , .		7
68	A Survey of Blockchain Enabled Cyber-Physical Systems. Sensors, 2020, 20, 282.	3.8	72
69	To chain or not to chain: A reinforcement learning approach for blockchain-enabled IoT monitoring applications. Future Generation Computer Systems, 2020, 111, 39-51.	7.5	21
70	Edge computing for energy-efficient smart health systems. , 2020, , 53-67.		12
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73	Traffic Analysis Attacks on Tor: A Survey. , 2020, , .		23
74	Performance Evaluation of Hyperledger Fabric. , 2020, , .		32
75	Navigation and Obstacle Avoidance System in Unknown Environment. , 2020, , .		4
76	Deep Reinforcement Learning Algorithm for Smart Data Compression under NOMA-Uplink Protocol. , 2020, , .		0
77	Key Generation Based Fuzzy Logic and Elliptic Curve Cryptography for Internet of Things (IoT) Authentication. , 2020, , .		2
78	Dynamic Resource Allocation of eMBB-uRLLC Traffic in 5G New Radio. , 2020, , .		5
79	DistPrivacy: Privacy-Aware Distributed Deep Neural Networks in IoT surveillance systems. , 2020, , .		9
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82	QoE-Aware Resource Allocation for Crowdsourced Live Streaming: A Machine Learning Approach. , 2019, , .		13
83	On Realistic Target Coverage by Autonomous Drones. ACM Transactions on Sensor Networks, 2019, 15, 1-33.	3.6	24
84	EdgeHealth: An Energy-Efficient Edge-based Remote mHealth Monitoring System. , 2019, , .		19
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86	Centralized and Distributed Cognitive Relay-Selection Schemes for SWIPT Cognitive Networks. IEEE Transactions on Communications, 2019, 67, 7431-7443.	7.8	4
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88	CE-D2D: Dual Framework Chunks Caching and offloading in Collaborative Edge networks with D2D communication. , 2019, , .		11
89	DroneRF dataset: A dataset of drones for RF-based detection, classification and identification. Data in Brief, 2019, 26, 104313.	1.0	68
90	Compress or Interfere?. , 2019, , .		0

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91	Design Challenges of Multi-UAV Systems in Cyber-Physical Applications: A Comprehensive Survey and Future Directions. IEEE Communications Surveys and Tutorials, 2019, 21, 3340-3385.	39.4	167
92	RF-based drone detection and identification using deep learning approaches: An initiative towards a large open source drone database. Future Generation Computer Systems, 2019, 100, 86-97.	7.5	144
93	TangleCV. , 2019, , .		9
94	Edge Computing for Smart Health: Context-Aware Approaches, Opportunities, and Challenges. IEEE Network, 2019, 33, 196-203.	6.9	160
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97	A Novel Deep Learning Strategy for Classifying Different Attack Patterns for Deep Brain Implants. IEEE Access, 2019, 7, 24154-24164.	4.2	40
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99	Transcoding Resources Forecasting and Reservation for Crowdsourced Live Streaming. , 2019, , .		6
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101	Edge-based compression and classification for smart healthcare systems: Concept, implementation and evaluation. Expert Systems With Applications, 2019, 117, 1-14.	7.6	49
102	Long-Term Power Procurement Scheduling Method for Smart-Grid Powered Communication Systems. IEEE Transactions on Wireless Communications, 2018, 17, 2882-2892.	9.2	6
103	User-Centric Networks Selection With Adaptive Data Compression for Smart Health. IEEE Systems Journal, 2018, 12, 3618-3628.	4.6	20
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105	Towards Extended Bit Tracking for Scalable and Robust RFID Tag Identification Systems. IEEE Access, 2018, 6, 27190-27204.	4.2	15
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110	Mathematical Evaluation of Human Immune Systems For Securing Software Defined Networks. , 2018, , .		4
111	Light-Weight Solution to Defend Implantable Medical Devices against Man-In-The-Middle Attack. , 2018, , .		5
112	Salt Generation for Hashing Schemes based on ECG readings for Emergency Access to Implantable Medical Devices. , 2018, , .		2
113	DTW based Authentication for Wireless Medical Device Security. , 2018, , .		6
114	Classification for Imperfect EEG Epileptic Seizure in IoT applications: A Comparative Study. , 2018, , .		9
115	Deep learning and low rank dictionary model for mHealth data classification. , 2018, , .		5
116	Convolutional Autoencoder Approach for EEG Compression and Reconstruction in m-Health Systems. , 2018, , .		25
117	Automated class-based compression for real-time epileptic seizure detection. , 2018, , .		9
118	Improving Remote Health Monitoring: A Low-Complexity ECG Compression Approach. Diagnostics, 2018, 8, 10.	2.6	32
119	Symmetric Encryption Relying on Chaotic Henon System for Secure Hardware-Friendly Wireless Communication of Implantable Medical Systems. Journal of Sensor and Actuator Networks, 2018, 7, 21.	3.9	10
120	Multi-Layer Perceptron Model on Chip for Secure Diabetic Treatment. IEEE Access, 2018, 6, 44718-44730.	4.2	23
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122	Distributed in-network processing and resource optimization over mobile-health systems. Journal of Network and Computer Applications, 2017, 82, 65-76.	9.1	15
123	A Simple Cross Correlation Switched Beam System (XSBS) for Angle of Arrival Estimation. IEEE Access, 2017, 5, 3340-3352.	4.2	6
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125	A Hardware Implementation for Efficient Spectrum Access in Cognitive Radio Networks. , 2017, , .		1
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128	Efficient ECG Compression and QRS Detection for E-Health Applications. Scientific Reports, 2017, 7, 459.	3.3	67
129	Dynamic Network Selection in Heterogeneous Wireless Networks: A user-centric scheme for improved delivery. IEEE Consumer Electronics Magazine, 2017, 6, 53-60.	2.3	17
130	A review of security challenges, attacks and resolutions for wireless medical devices. , 2017, , .		20
131	Deep learning approach for EEG compression in mHealth system. , 2017, , .		4
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133	Resource Provisioning for Cloud-Assisted Body Area Network in a Smart Home Environment. IEEE Access, 2017, 5, 13213-13224.	4.2	8
134	Argus. , 2017, , .		32
135	Concurrent association in heterogeneous networks with underlay D2D communication. , 2017, , .		4
136	Estimating the number of sources in white Gaussian noise: simple eigenvalues based approaches. IET Signal Processing, 2017, 11, 663-673.	1.5	9
137	Walsh transform with moving average filtering for data compression in wireless sensor networks. , 2017, , .		9
138	A Simple Angle of Arrival Estimation System. , 2017, , .		6
139	DLRT: Deep Learning Approach for Reliable Diabetic Treatment. , 2017, , .		7
140	Adaptive forwarding of mHealth data in challenged networks. , 2017, , .		4
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143	High performance EEG feature extraction for fast epileptic seizure detection. , 2017, , .		2
144	Robust secret key extraction from channel secondary random process. Wireless Communications and Mobile Computing, 2016, 16, 1389-1400.	1.2	8

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146	Neural Network Conditional Random Fields for Self-Paced Brain Computer Interfaces. , 2016, , .		2
147	In-Network Data Reduction Approach Based on Smart Sensing. , 2016, , .		1
148	User-centric network selection in multi-RAT systems. , 2016, , .		4
149	Energy Efficient EEG Monitoring System for Wireless Epileptic Seizure Detection. , 2016, , .		2
150	Formal verification of energy consumption for an EEG monitoring wireless body area sensor network. , 2016, , .		1
151	Unleashing the secure potential of the wireless physical layer: Secret key generation methods. Physical Communication, 2016, 19, 1-10.	2.1	25
152	Relay selection schemes to minimise outage in wireless powered communication networks. IET Signal Processing, 2016, 10, 203-209.	1.5	10
153	An evolutionary game theoretic approach for cooperative spectrum sensing. , 2016, , .		2
154	Directed graph-based wireless EEG sensor channel selection approach for cognitive task classification. , 2016, , .		0
155	Energy efficient path planning techniques for UAV-based systems with space discretization. , 2016, , .		42
156	Energy efficient antenna selection for a MIMO relay using RF energy harvesting. , 2016, , .		3
157	User-centric network selection in multi-RAT systems. , 2016, , .		3
158	FPGA implementation of DWT EEG data compression for wireless body sensor networks. , 2016, , .		9
159	DSA-Based Energy Efficient Cellular Networks: Integration with the Smart Grid. , 2016, , .		0
160	Energy-Aware Cooperative Wireless Networks With Multiple Cognitive Users. IEEE Transactions on Communications, 2016, 64, 3233-3245.	7.8	5
161	RF Energy Harvesting Communications: Recent Advances and Research Issues. Studies in Systems, Decision and Control, 2016, , 339-363.	1.0	4
162	Channel-, Queue-, and Delay-Aware Resource Allocation in Buffer-Aided Relay-Enhanced OFDMA Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 2397-2412.	6.3	10

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163	Distributed Multi-Objective Resource Optimization for Mobile-Health Systems. , 2016, , .		0
164	Distributed interference management using Q-Learning in cognitive femtocell networks: New USRP-based implementation. , 2015, , .		7
165	Towards Energy Efficient and Quality of Service Aware Cell Zooming in 5G Wireless Networks. , 2015, , .		11
166	Buffer-aided relaying improves both throughput and end-to-end delay. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	9
167	Ensemble Classifier for Epileptic Seizure Detection for Imperfect EEG Data. Scientific World Journal, The, 2015, 2015, 1-15.	2.1	66
168	Energy-efficient on-board processing technique for wireless epileptic seizure detection systems. , 2015, , .		5
169	On spectrum sharing between energy harvesting cognitive radio users and primary users. , 2015, , .		29
170	Secret Key Generation Based on AoA Estimation for Low SNR Conditions. , 2015, , .		19
171	Energy-cost-distortion optimization for delay-sensitive M-health applications. , 2015, , .		2
172	Channel secondary random process for robust secret key generation. , 2015, , .		1
173	On the effect of proportional fairness in energy transfer for wireless powered communication networks. , 2015, , .		1
174	Secrecy for MIMO wiretap and MIMO broadcast channels with fading eavesdroppers: CSI does not increase the secure DoF. , 2015, , .		5
175	Utility-based efficient dynamic distributed resource allocation in buffer-aided relay-assisted OFDMA networks. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	1
176	Interference-based optimal power-efficient access scheme for cognitive radio networks. , 2015, , .		1
177	Survey on energy harvesting wireless communications: Challenges and opportunities for radio resource allocation. Computer Networks, 2015, 88, 234-248.	5.1	55
178	Scalable real-time energy-efficient EEG compression scheme for wireless body area sensor network. Biomedical Signal Processing and Control, 2015, 19, 122-129.	5.7	23
179	Power control and group proportional fairness for frequency domain resource allocation in L-SC-FDMA based LTE uplink. Wireless Networks, 2015, 21, 1819-1834.	3.0	3
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182	Optimal spectrum access for a rechargeable cognitive radio user based on energy buffer state. , 2015, , .		3
183	Optimal cooperative cognitive relaying and spectrum access for an energy harvesting cognitive radio: Reinforcement learning approach. , 2015, , .		7
184	Comparative simulation for physical layer key generation methods. , 2015, , .		5
185	Power-optimal feedback-based random spectrum access for an energy harvesting cognitive user. , 2015, , .		3
186	Cognitive Radio Networks With Probabilistic Relaying: Stable Throughput and Delay Tradeoffs. IEEE Transactions on Communications, 2015, 63, 4002-4014.	7.8	25
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195	Low Complexity Target Coverage Heuristics Using Mobile Cameras. , 2014, , .		9
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203	Real-time implementation and evaluation of an adaptive energy-aware data compression for wireless EEG monitoring systems. , 2014, , .		19
204	Cooperative access in cognitive radio networks: stable throughput and delay tradeoffs. , 2014, , .		8
205	Distributed cross-layer optimization for healthcare monitoring applications. , 2014, , .		1
206	Energy efficient multiuser scheduling: Statistical guarantees on bursty packet loss. , 2014, , .		0
207	Hybrid radio resource allocation and interference coordination for type 1aâ€relayed long term evolution uplink. IET Communications, 2014, 8, 1928-1937.	2.2	2
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211	Design and analysis of an adaptive compressive sensing architecture for epileptic seizure detection. , 2013, , .		2
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213	Adaptive compression and optimization for real-time energy-efficient wireless EEG monitoring systems. , 2013, , .		5
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219	Energy efficient cross-layer design for wireless body area monitoring networks in healthcare applications. , 2013, , .		14
220	Optimum power and rate allocation in video sensor networks. , 2013, , .		5
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