

Game Theory for Multi-Access Edge Computing: Survey

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Cooperative and Distributed Computation Offloading for Blockchain-Empowered Industrial Internet of Things. IEEE Internet of Things Journal, 2019, 6, 8433-8446.	8.7	114
2	Distributed Fair Randomized (DFR): a Resource Sharing Protocol for Fog Providers. , 2019, , .		2
3	A QoE-Oriented Uplink Allocation for Multi-UAV Video Streaming. Sensors, 2019, 19, 3394.	3.8	14
4	Network selection and data dissemination in heterogeneous software-defined vehicular network. Computer Networks, 2019, 161, 32-44.	5.1	38
5	A fault-tolerant dynamic scheduling method on hierarchical mobile edge cloud computing. Computational Intelligence, 2019, 35, 577-598.	3.2	11
6	A Game-Theoretic Analysis for Distributed Honeypots. Future Internet, 2019, 11, 65.	3.8	7
7	Modeling the Techno-Economic Interactions of Infrastructure and Service Providers in 5G Networks With a Multi-Leader-Follower Game. IEEE Access, 2019, 7, 162913-162940.	4.2	8
8	Stackelberg-Game-Based Mechanism for Opportunistic Data Offloading Using Moving Vehicles. IEEE Access, 2019, 7, 166435-166450.	4.2	21
9	Device-Enhanced MEC: Multi-Access Edge Computing (MEC) Aided by End Device Computation and Caching: A Survey. IEEE Access, 2019, 7, 166079-166108.	4.2	146
10	A Multi-User Mobile Computation Offloading and Transmission Scheduling Mechanism for Delay-Sensitive Applications. IEEE Transactions on Mobile Computing, 2020, 19, 29-43.	5.8	138
11	Energy Efficiency Analysis by Game-Theoretic Approach in the Next Generation Network. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2020, 37, 329-338.	3.2	6
12	Machine Learning for Resource Management in Cellular and IoT Networks: Potentials, Current Solutions, and Open Challenges. IEEE Communications Surveys and Tutorials, 2020, 22, 1251-1275.	39.4	191
13	Edge Computing in Industrial Internet of Things: Architecture, Advances and Challenges. IEEE Communications Surveys and Tutorials, 2020, 22, 2462-2488.	39.4	355
14	Fog computing systems: State of the art, research issues and future trends, with a focus on resilience. Journal of Network and Computer Applications, 2020, 169, 102784.	9.1	35
15	An Incentive Mechanism-Based Stackelberg Game for Scheduling of LoRa Spreading Factors. IEEE Transactions on Network and Service Management, 2020, 17, 2598-2609.	4.9	8
16	Anti-Honeypot Enabled Optimal Attack Strategy for Industrial Cyber-Physical Systems. IEEE Open Journal of the Computer Society, 2020, 1, 250-261.	7.8	10
17	Modeling cooperative behavior for resilience in cyber-physical systems using SDN and NFV. SN Applied Sciences, 2020, 2, 1.	2.9	9
18	Multi-Access Edge Computing: A Survey. IEEE Access, 2020, 8, 197017-197046.	4.2	99

#	ARTICLE	IF	CITATIONS
19	Matching IoT Devices to the Fog Service Providers: A Mechanism Design Perspective. Sensors, 2020, 20, 6761.	3.8	5
20	Computation Offloading Scheme with D2D for MEC-enabled Cellular Networks. , 2020, , .		3
21	Edge-Enabled WBANs for Efficient QoS Provisioning Healthcare Monitoring: A Two-Stage Potential Game-Based Computation Offloading Strategy. IEEE Access, 2020, 8, 92718-92730.	4.2	30
22	Social Interaction Assisted Resource Sharing Scheme for Device-to-Device Communication Towards Green Internet of Things. IEEE Access, 2020, 8, 71652-71661.	4.2	10
23	Probabilistic computation offloading for mobile edge computing in dynamic network environment. Internet of Things (Netherlands), 2020, 11, 100225.	7.7	8
24	Energy Consumption and Time Delay optimization of MEC Based on MultiDimensional Game. , 2020, , .		2
25	Differential privacy in blockchain technology: A futuristic approach. Journal of Parallel and Distributed Computing, 2020, 145, 50-74.	4.1	58
26	A Survey of Multi-Access Edge Computing in 5G and Beyond: Fundamentals, Technology Integration, and State-of-the-Art. IEEE Access, 2020, 8, 116974-117017.	4.2	493
27	epcAware: A Game-Based, Energy, Performance and Cost-Efficient Resource Management Technique for Multi-Access Edge Computing. IEEE Transactions on Services Computing, 2022, 15, 1634-1648.	4.6	29
28	Toward Edge Intelligence: Multiaccess Edge Computing for 5G and Internet of Things. IEEE Internet of Things Journal, 2020, 7, 6722-6747.	8.7	302
29	A review on the computation offloading approaches in mobile edge computing: A g<scp>ameâ€œtheoretic</scp> perspective. Software - Practice and Experience, 2020, 50, 1719-1759.	3.6	63
30	Cybertwin-Driven Resource Provisioning for IoE Applications at 6G-Enabled Edge Networks. IEEE Transactions on Industrial Informatics, 2022, 18, 4850-4858.	11.3	16
31	Evolutionary Dynamics and Multiplexity for Mobile Edge Computing in a Healthcare Scenario. Internet of Things, 2021, , 21-41.	1.7	0
32	Delay and Energy Balance for Unmanned Aerial Vehicle Networks. , 2021, , .		1
33	Survey on Placement Methods in the Edge and Beyond. IEEE Communications Surveys and Tutorials, 2021, 23, 2590-2629.	39.4	39
34	Toward Enabled Industrial Verticals in 5G: A Survey on MEC-Based Approaches to Provisioning and Flexibility. IEEE Communications Surveys and Tutorials, 2021, 23, 596-630.	39.4	109
35	Nonlinear Pricing Based Distributed Offloading in Multi-User Mobile Edge Computing. IEEE Transactions on Vehicular Technology, 2021, 70, 1077-1082.	6.3	9
36	Multi-Access Edge Computing Architecture, Data Security and Privacy: A Review. IEEE Access, 2021, 9, 18706-18721.	4.2	65

#	ARTICLE	IF	CITATIONS
37	Exploiting Non-Cooperative Game Against Cache Pollution Attack in Vehicular Content Centric Network. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 3873-3886.	5.4	3
38	Multi-Agent Reinforcement Learning-Based Resource Management for End-to-End Network Slicing. IEEE Access, 2021, 9, 56178-56190.	4.2	25
39	Computational intelligent techniques for resource management schemes in wireless sensor networks. , 2021, , 41-59.		3
40	Survey on Multi-Access Edge Computing Security and Privacy. IEEE Communications Surveys and Tutorials, 2021, 23, 1078-1124.	39.4	156
41	Security and privacy in the internet of things: computational intelligent techniques-based approaches. , 2021, , 111-127.		9
42	Privacy-Preserving Mechanism in Smart Home Using Blockchain. IEEE Access, 2021, 9, 103651-103669.	4.2	30
43	Applications of Game Theory in Vehicular Networks: A Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 2660-2710.	39.4	22
44	Stochastic Differential Game-Based Malware Propagation in Edge Computing-Based IoT. Security and Communication Networks, 2021, 2021, 1-11.	1.5	1
45	An Improved Particle Swarm Optimization-Powered Adaptive Classification and Migration Visualization for Music Style. Complexity, 2021, 2021, 1-10.	1.6	8
46	Survey on Intelligence Edge Computing in 6G: Characteristics, Challenges, Potential Use Cases, and Market Drivers. Future Internet, 2021, 13, 118.	3.8	64
47	Design and Implementation of Decentralized Swarm Intelligence E-Commerce Model Based on Regional Chain and Edge Computing. Complexity, 2021, 2021, 1-11.	1.6	2
48	Energy, performance and cost efficient cloud datacentres: A survey. Computer Science Review, 2021, 40, 100390.	15.3	16
49	Design and implementation of decentralized E-commerce model based on edge computing. Journal of Intelligent and Fuzzy Systems, 2021, , 1-11.	1.4	3
50	A Game-Theoretic Approach to Computation Offloading in Software-Defined D2D-Enabled Vehicular Networks. , 2021, , .		4
51	Cross-layer tradeoff of QoS and security in Vehicular ad hoc Networks: A game theoretical approach. Computer Networks, 2021, 192, 108031.	5.1	8
52	Evolutionary dynamics of MEC's organization in a 6G scenario through EGT and temporal multiplex social network. ICT Express, 2021, 7, 138-142.	4.8	5
53	Decentralized adaptive resource-aware computation offloading & caching for multi-access edge computing networks. Sustainable Computing: Informatics and Systems, 2021, 30, 100555.	2.2	5
54	Hierarchical coordinated anti-jamming channel access in clustering networks: a multi-leader multi-follower Stackelberg game approach. Eurasip Journal on Advances in Signal Processing, 2021, , .	1.7	0

#	ARTICLE	IF	CITATIONS
55	A Comprehensive Review on Edge Caching from the Perspective of Total Process: Placement, Policy and Delivery. <i>Sensors</i> , 2021, 21, 5033.	3.8	16
56	Edge Computing for IoT-Enabled Smart Grid. <i>Security and Communication Networks</i> , 2021, 2021, 1-16.	1.5	42
57	Joint computing and communication resource allocation for satellite communication networks with edge computing. <i>China Communications</i> , 2021, 18, 236-252.	3.2	26
58	A Game theory-based Computation Offloading Method in Cloud-Edge Computing Networks. , 2021, , .		4
59	Computation offloading and content caching and delivery in Vehicular Edge Network: A survey. <i>Computer Networks</i> , 2021, 197, 108228.	5.1	21
60	User-Centric Radio Access Technology Selection: A Survey of Game Theory Models and Multi-Agent Learning Algorithms. <i>IEEE Access</i> , 2021, 9, 84417-84464.	4.2	9
61	Market Analysis of MEC-Assisted Beyond 5G Ecosystem. <i>IEEE Access</i> , 2021, 9, 53996-54008.	4.2	18
62	Design of a dynamic and self-adapting system, supported with artificial intelligence, machine learning and real-time intelligence for predictive cyber risk analytics in extreme environments “ cyber risk in the colonisation of Mars. <i>Safety in Extreme Environments</i> , 2020, 2, 219-230.	3.1	19
63	Congestion-aware adaptive decentralised computation offloading and caching for multi-access edge computing networks. <i>IET Communications</i> , 2020, 14, 3410-3419.	2.2	8
64	Game Theory for Computation Offloading and Resource Allocation in Edge Computing: A Survey. , 2020, , .		9
65	Game theory and evolutionary optimization approaches applied to resource allocation problems in computing environments: A survey. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 9190-9232.	1.9	8
66	Context-Based Resilience in Cyber-Physical Production System. <i>Data Science and Engineering</i> , 2021, 6, 434-454.	6.4	3
68	On one Saddle Point Search Algorithm for Continuous Linear Games as Applied to Information Security Problems. <i>Herald of the Bauman Moscow State Technical University Series Instrument Engineering</i> , 2020, , 58-74.	0.2	1
69	Multi-user Edge-assisted Video Analytics Task Offloading Game based on Deep Reinforcement Learning. , 2020, , .		13
70	Privacy-Aware Wireless Power Transfer for Aerial Computation Offloading via Colonel Blotto Game. , 2020, , .		4
71	An online learning algorithm to play discounted repeated games in wireless networks. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 107, 104520.	8.1	2
73	Defense Strategy Selection Model Based on Multistage Evolutionary Game Theory. <i>Security and Communication Networks</i> , 2021, 2021, 1-15.	1.5	3
75	A Multi-Market Trading Framework for Low-Latency Service Provision at the Edge of Networks. <i>IEEE Transactions on Services Computing</i> , 2021, , 1-1.	4.6	1

#	ARTICLE	IF	CITATIONS
76	Game Theory in Internet of Things: A Survey. IEEE Internet of Things Journal, 2022, 9, 12125-12146.	8.7	15
77	Learn to Coordinate for Computation Offloading and Resource Allocation in Edge Computing: A Rational-Based Distributed Approach. IEEE Transactions on Network Science and Engineering, 2022, 9, 3136-3151.	6.4	7
78	Syncing a Smart City within an Evolutionary Dynamical Cooperative Environment. , 2020, , .		2
79	Optimization of UAV-Femtocell Systems Positioning via Game Theory to Geolocate Mobile Terminals in a Post-Earthquake Scenario. , 2021, , .		1
80	Memetic Algorithm Based on Community Detection for Energy-Efficient Service Migration Optimization in 5G Mobile Edge Computing. , 2021, , .		0
81	Dynamic Analysis of Alternative Elements in an Automated Packaging System Based on 5G Internet of Things. Journal of Sensors, 2022, 2022, 1-11.	1.1	0
82	Parallel Processing at the Edge in Dense Wireless Networks. IEEE Open Journal of the Communications Society, 2022, 3, 1-14.	6.9	0
83	AI-Based Mobile Edge Computing for IoT: Applications, Challenges, and Future Scope. Arabian Journal for Science and Engineering, 2022, 47, 9801-9831.	3.0	42
84	Resource pricing and offloading decisions in mobile edge computing based on the Stackelberg game. Journal of Supercomputing, 2022, 78, 7805.	3.6	1
85	Stackelberg-Game-Based Computation Offloading Method in Cloud-Edge Computing Networks. IEEE Internet of Things Journal, 2022, 9, 16510-16520.	8.7	22
86	A Potential Game Approach for Decentralized Resource Coordination in Coexisting IWNs. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1118-1130.	7.9	4
87	A Survey on Auction based Approaches for Resource Allocation and Pricing in Emerging Edge Technologies. Journal of Grid Computing, 2022, 20, 1.	3.9	6
88	Privacy-Aware Laser Wireless Power Transfer for Aerial Multi-Access Edge Computing: A Colonel Blotto Game Approach. IEEE Internet of Things Journal, 2023, 10, 5923-5939.	8.7	2
89	Using Fuzzy Logic to Learn Abstract Policies in Large-Scale Multiagent Reinforcement Learning. IEEE Transactions on Fuzzy Systems, 2022, 30, 5211-5224.	9.8	12
90	Load Balancing Algorithms in Fog Computing. IEEE Transactions on Services Computing, 2023, 16, 1505-1521.	4.6	36
91	Online Service-Time Allocation Strategy for Balancing Energy Consumption and Queuing Delay of a MEC Server. Applied Sciences (Switzerland), 2022, 12, 4539.	2.5	2
92	BILP-Q. , 2022, , .		5
93	A comprehensive survey on aerial mobile edge computing: Challenges, state-of-the-art, and future directions. Computer Communications, 2022, 191, 233-256.	5.1	14

#	ARTICLE	IF	CITATIONS
94	A Survey of State-of-the-art on Edge Computing: Theoretical Models, Technologies, Directions, and Development Paths. IEEE Access, 2022, 10, 54038-54063.	4.2	7
95	Computation Offloading for Partitionable Applications in Dense Networks: An Evolutionary Game Approach. IEEE Internet of Things Journal, 2022, 9, 20985-20996.	8.7	3
96	Game-Theoretic Power and Rate Control in IEEE 802.11p Wireless Networks. Electronics (Switzerland), 2022, 11, 1618.	3.1	1
97	Future generation communications with game strategies: A comprehensive survey. Computer Communications, 2022, 192, 1-32.	5.1	8
98	Formulating Cost-Effective Data Distribution Strategies Online for Edge Cache Systems. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 4270-4281.	5.6	6
99	G-3MRP: A game-theoretical multimedia multimetric map-aware routing protocol for vehicular ad hoc networks. Computer Networks, 2022, 213, 109086.	5.1	5
101	Incentive techniques for the Internet of Things: A survey. Journal of Network and Computer Applications, 2022, 206, 103464.	9.1	34
102	Online learning for multi-agent based resource allocation in weakly coupled wireless systems. , 2022, , .		1
103	Survey on Digital Twin Edge Networks (DITEN) Toward 6G. IEEE Open Journal of the Communications Society, 2022, 3, 1360-1381.	6.9	29
104	Machine and Deep Learning for Resource Allocation in Multi-Access Edge Computing: A Survey. IEEE Communications Surveys and Tutorials, 2022, 24, 2449-2494.	39.4	19
105	Video Content Placement At the Network Edge: Centralized and Distributed Algorithms. IEEE Transactions on Mobile Computing, 2022, , 1-17.	5.8	2
106	UAV-Aided Computation Offloading in Mobile-Edge Computing Networks: A Stackelberg Game Approach. IEEE Internet of Things Journal, 2023, 10, 6622-6633.	8.7	16
109	Game Theory-Based Optimal Cooperative Path Planning for Multiple UAVs. IEEE Access, 2022, 10, 108034-108045.	4.2	9
110	The Future Development Direction of Cloud-Associated Edge-Computing Security in the Era of 5G as Edge Intelligence. Scientific Programming, 2022, 2022, 1-13.	0.7	0
111	Research on task-driven edge computing system in V2X scenarios. , 2022, , .		0
112	Stimulating trust cooperation in edge services: An evolutionary tripartite game. Engineering Applications of Artificial Intelligence, 2022, 116, 105465.	8.1	8
113	Distributed resource scheduling in edge computing: Problems, solutions, and opportunities. Computer Networks, 2022, 219, 109430.	5.1	4
114	A survey of mobility-aware Multi-access Edge Computing: Challenges, use cases and future directions. Ad Hoc Networks, 2023, 140, 103044.	5.5	17

#	ARTICLE	IF	CITATIONS
115	Multiobjective Optimization for Adaptive Offloading in Distributed Multiuser MIMO Cell-Free 6G Networks. IEEE Internet of Things Journal, 2023, 10, 7960-7973.	8.7	2
116	A contract-based energy harvesting mechanism in UAV communication network. Computer Communications, 2023, 199, 50-61.	5.1	1
117	Wireless Powered Mobile Edge Computing Networks: A Survey. ACM Computing Surveys, 2023, 55, 1-37.	23.0	32
118	Joint bandwidth allocation and task offloading in multi-access edge computing. Expert Systems With Applications, 2023, 217, 119563.	7.6	5
119	Handover-Enabled Dynamic Computation Offloading for Vehicular Edge Computing Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 9394-9405.	6.3	3
120	Service Function Chain Scheduling in Heterogeneous Multi-UAV Edge Computing. Drones, 2023, 7, 132.	4.9	1
121	Principles and Practices for Application-Network Co-Design in Edge Computing. IEEE Network, 2023, 37, 137-144.	6.9	0
122	Coalitional Game-Theoretical Approach to Coinvestment with Application to Edge Computing. , 2023, , .		0
123	Adaptive Packet Scheduling Algorithm for Time-Sensitive Service based on DTP and Reinforcement Learning. , 2022, , .		0
124	AFPr-AM: A novel Fuzzy-AHP based privacy risk assessment model for strategic information management of social media platforms. Computers and Security, 2023, 130, 103263.	6.0	1
125	Toward intelligent cooperation at the edge: improving the QoS of workflow scheduling with the competitive cooperation of edge servers. Wireless Networks, 0, , .	3.0	0
126	Deep learning models for cloud, edge, fog, and IoT computing paradigms: Survey, recent advances, and future directions. Computer Science Review, 2023, 49, 100568.	15.3	12
127	Offloading decision and resource allocation for NDN-based satellite edge computing. , 2023, , .		0
128	5G Multi-Access Edge Computing: A Survey on Security, Dependability, and Performance. IEEE Access, 2023, 11, 63496-63533.	4.2	2
129	A collaborative and adaptive cyber dÃ©fense strategic assessment for healthcare networks using edge computing. Healthcare Analytics, 2023, 3, 100184.	4.3	1
130	Edge Computing: Attributes, Applications, and Future Trends. Lecture Notes in Networks and Systems, 2023, , 269-284.	0.7	0
131	Efficiency of Distributed Selection of Edge or Cloud Servers under Latency Constraints. , 2023, , .		0
132	Joint Scheduling and Offloading Schemes for Multiple Interdependent Computation Tasks in Mobile Edge Computing. IEEE Internet of Things Journal, 2024, 11, 5718-5730.	8.7	0

#	ARTICLE	IF	CITATIONS
133	Contemporary advances in multi-access edge computing: A survey of fundamentals, architecture, technologies, deployment cases, security, challenges, and directions. Journal of Network and Computer Applications, 2023, 219, 103726.	9.1	2
134	Perlustration into Multi-access Edge Computing: A Prospective Approach. Smart Innovation, Systems and Technologies, 2023, , 497-508.	0.6	0
135	SQCS: A sustainable quality control system for spatial crowdsourcing via three-party evolutionary game: Theory and practice. Expert Systems With Applications, 2024, 238, 122132.	7.6	0
136	Learning-Based Collaborative Computation Offloading in UAV-Assisted Multi-Access Edge Computing. Electronics (Switzerland), 2023, 12, 4371.	3.1	0
137	Controller placement in SDN using game theory and a discrete hybrid metaheuristic algorithm. Journal of Supercomputing, 0, , .	3.6	0
138	What to tell when? “ Information Provision as a Game. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 395, 1-9.	0.8	1
142	When game theory meets satellite communication networks: A survey. Computer Communications, 2024, 217, 208-229.	5.1	0