

# Incentive Mechanism for Reliable Federated Learning: A Combining Reputation and Contract Theory

IEEE Internet of Things Journal

6, 10700-10714

DOI: [10.1109/jiot.2019.2940820](https://doi.org/10.1109/jiot.2019.2940820)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Deep-Reinforcement-Learning-Based Mode Selection and Resource Allocation for Cellular V2X Communications. IEEE Internet of Things Journal, 2020, 7, 6380-6391.	5.5	134
2	Federated learning for 6G communications: Challenges, methods, and future directions. China Communications, 2020, 17, 105-118.	2.0	272
3	Computation Offloading in Hierarchical Multi-Access Edge Computing Based on Contract Theory and Bayesian Matching Game. IEEE Transactions on Vehicular Technology, 2020, 69, 13686-13701.	3.9	24
4	A Novel Reputation-aware Client Selection Scheme for Federated Learning within Mobile Environments. , 2020, , .		21
5	SABlockFL: a blockchain-based smart agent system architecture and its application in federated learning. International Journal of Crowd Science, 2020, 4, 133-147.	1.1	13
6	Federated Learning for Open Banking. Lecture Notes in Computer Science, 2020, , 240-254.	1.0	65
7	Federated Learning. Lecture Notes in Computer Science, 2020, , .	1.0	25
8	Federated Learning in Smart City Sensing: Challenges and Opportunities. Sensors, 2020, 20, 6230.	2.1	129
9	Joint Demand Response and Energy Trading for Electric Vehicles in Off-Grid System. IEEE Access, 2020, 8, 130576-130587.	2.6	9
10	Double Auction Game for Efficient Resource Sharing in 5G D2D Wireless Communication Networks. , 2020, , .		0
11	A Queueing Game Based Management Framework for Fog Computing With Strategic Computing Speed Control. IEEE Transactions on Mobile Computing, 2022, 21, 1537-1551.	3.9	21
12	Federated Learning Assisted Multi-UAV Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 14104-14109.	3.9	62
13	Rational Delegation of Computation Based on Reputation and Contract Theory in the UC Framework. Communications in Computer and Information Science, 2020, , 322-335.	0.4	2
14	Using Blockchain Technologies to Improve Security in Federated Learning Systems. , 2020, , .		25
15	Incentive Design and Differential Privacy Based Federated Learning: A Mechanism Design Perspective. IEEE Access, 2020, 8, 187317-187325.	2.6	18
16	Blockchain-Based Incentive Energy-Knowledge Trading in IoT: Joint Power Transfer and AI Design. IEEE Internet of Things Journal, 2022, 9, 14685-14698.	5.5	62
17	Federated Machine Learning for Intelligent IoT via Reconfigurable Intelligent Surface. IEEE Network, 2020, 34, 16-22.	4.9	116
18	Toward Efficient Data Trading in AI Enabled Reconfigurable Wireless Sensor Network Using Contract and Game Theories. IEEE Transactions on Network Science and Engineering, 2022, 9, 98-108.	4.1	10

#	ARTICLE	IF	CITATIONS
19	Blockchain-orchestrated machine learning for privacy preserving federated learning in electronic health data. , 2020, , .		29
20	A Critical Evaluation of Privacy and Security Threats in Federated Learning. Sensors, 2020, 20, 7182.	2.1	23
21	Reliable Federated Learning for Mobile Networks. IEEE Wireless Communications, 2020, 27, 72-80.	6.6	321
22	Federated Learning in Mobile Edge Networks: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 2031-2063.	24.8	1,098
23	A Multi-Dimensional Contract Approach for Data Rewarding in Mobile Networks. IEEE Transactions on Wireless Communications, 2020, 19, 5779-5793.	6.1	27
24	Federated Learning for Vehicular Internet of Things: Recent Advances and Open Issues. IEEE Open Journal of the Computer Society, 2020, 1, 45-61.	5.2	190
25	Blockchain for 5G and beyond networks: A state of the art survey. Journal of Network and Computer Applications, 2020, 166, 102693.	5.8	239
26	Incentive Mechanism Design for Mobile Data Rewards using Multi-Dimensional Contract. , 2020, , .		5
27	Lightweight Deep Learning Based Intelligent Edge Surveillance Techniques. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 1146-1154.	4.9	42
28	Online Computation Offloading and Traffic Routing for UAV Swarms in Edge-Cloud Computing. IEEE Transactions on Vehicular Technology, 2020, 69, 8777-8791.	3.9	57
29	Auction based Incentive Design for Efficient Federated Learning in Cellular Wireless Networks. , 2020, , .		22
30	Training Task Allocation in Federated Edge Learning: A Matching-Theoretic Approach. , 2020, , .		8
31	Communication-Efficient Edge AI: Algorithms and Systems. IEEE Communications Surveys and Tutorials, 2020, 22, 2167-2191.	24.8	200
32	How to Democratise and Protect AI: Fair and Differentially Private Decentralised Deep Learning. IEEE Transactions on Dependable and Secure Computing, 2020, , 1-1.	3.7	19
33	Blockchain and Machine Learning for Communications and Networking Systems. IEEE Communications Surveys and Tutorials, 2020, 22, 1392-1431.	24.8	167
34	Deep Reinforcement Learning and Permissioned Blockchain for Content Caching in Vehicular Edge Computing and Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 4312-4324.	3.9	169
35	Privacy-Preserving Traffic Flow Prediction: A Federated Learning Approach. IEEE Internet of Things Journal, 2020, 7, 7751-7763.	5.5	323
36	Energy-Efficient Processing and Robust Wireless Cooperative Transmission for Edge Inference. IEEE Internet of Things Journal, 2020, 7, 9456-9470.	5.5	27

#	ARTICLE	IF	CITATIONS
37	Federated Learning in Vehicular Edge Computing: A Selective Model Aggregation Approach. IEEE Access, 2020, 8, 23920-23935.	2.6	208
38	A Hierarchical Blockchain-Enabled Federated Learning Algorithm for Knowledge Sharing in Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3975-3986.	4.7	152
39	Blockchain-Based Federated Learning for Device Failure Detection in Industrial IoT. IEEE Internet of Things Journal, 2021, 8, 5926-5937.	5.5	134
40	Privacy-preserving incentive mechanism for multi-leader multi-follower IoT-edge computing market: A reinforcement learning approach. Journal of Systems Architecture, 2021, 114, 101932.	2.5	19
41	Realizing the Heterogeneity: A Self-Organized Federated Learning Framework for IoT. IEEE Internet of Things Journal, 2021, 8, 3088-3098.	5.5	106
42	Hierarchical Pricing Mechanism With Financial Stability for Decentralized Crowdsourcing: A Smart Contract Approach. IEEE Internet of Things Journal, 2021, 8, 750-765.	5.5	9
43	Convergence of Blockchain and Edge Computing for Secure and Scalable IIoT Critical Infrastructures in Industry 4.0. IEEE Internet of Things Journal, 2021, 8, 2300-2317.	5.5	153
44	A Survey on Federated Learning: The Journey From Centralized to Distributed On-Site Learning and Beyond. IEEE Internet of Things Journal, 2021, 8, 5476-5497.	5.5	283
45	A survey on security and privacy of federated learning. Future Generation Computer Systems, 2021, 115, 619-640.	4.9	534
46	Privacy-preserving blockchain-based federated learning for traffic flow prediction. Future Generation Computer Systems, 2021, 117, 328-337.	4.9	157
47	Distributed task allocation in Mobile Device Cloud exploiting federated learning and subjective logic. Journal of Systems Architecture, 2021, 113, 101972.	2.5	17
48	Optimal Contract Design for Efficient Federated Learning With Multi-Dimensional Private Information. IEEE Journal on Selected Areas in Communications, 2021, 39, 186-200.	9.7	70
49	Hybrid Blockchain-Based Resource Trading System for Federated Learning in Edge Computing. IEEE Internet of Things Journal, 2021, 8, 2252-2264.	5.5	58
50	DPCrowd: Privacy-Preserving and Communication-Efficient Decentralized Statistical Estimation for Real-Time Crowdsourced Data. IEEE Internet of Things Journal, 2021, 8, 2775-2791.	5.5	6
51	Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. IEEE Internet of Things Journal, 2021, 8, 3394-3409.	5.5	61
52	Communication-Efficient Federated Learning and Permissioned Blockchain for Digital Twin Edge Networks. IEEE Internet of Things Journal, 2021, 8, 2276-2288.	5.5	140
53	Learning in the Air: Secure Federated Learning for UAV-Assisted Crowdsensing. IEEE Transactions on Network Science and Engineering, 2021, 8, 1055-1069.	4.1	119
54	Heralding the Future of Federated Learning Framework: Architecture, Tools and Future Directions. , 2021, , .		7

#	ARTICLE	IF	CITATIONS
55	Small-Cell Sleeping and Association for Energy-Harvesting-Aided Cellular IoT With Full-Duplex Self-Backhauls: A Game-Theoretic Approach. IEEE Internet of Things Journal, 2022, 9, 2304-2318.	5.5	6
56	Multiagent Federated Reinforcement Learning for Secure Incentive Mechanism in Intelligent Cyber-Physical Systems. IEEE Internet of Things Journal, 2022, 9, 22095-22108.	5.5	36
57	Privacy-Preserving Blockchain-Based Federated Learning for Marine Internet of Things. IEEE Transactions on Computational Social Systems, 2022, 9, 159-173.	3.2	19
58	UVeQFed: Universal Vector Quantization for Federated Learning. IEEE Transactions on Signal Processing, 2021, 69, 500-514.	3.2	100
59	A Trusted Consensus Scheme for Collaborative Learning in the Edge AI Computing Domain. IEEE Network, 2021, 35, 204-210.	4.9	13
60	Aggregation of Incentivized Learning Models in Mobile Federated Learning Environments. IEEE Networking Letters, 2021, 3, 196-200.	1.5	3
61	Client Selection for Federated Learning With Non-IID Data in Mobile Edge Computing. IEEE Access, 2021, 9, 24462-24474.	2.6	91
62	Unlinkable Collaborative Learning Transactions: Privacy-Awareness in Decentralized Approaches. IEEE Access, 2021, 9, 65293-65307.	2.6	6
63	Deep-Reinforcement-Learning-Based Latency Minimization in Edge Intelligence Over Vehicular Networks. IEEE Internet of Things Journal, 2022, 9, 1300-1312.	5.5	11
64	The Intersection of Blockchain and 6G Technologies. Computer Communications and Networks, 2021, , 393-417.	0.8	1
65	Survey on Blockchain-Based Smart Contracts: Technical Aspects and Future Research. IEEE Access, 2021, 9, 87643-87662.	2.6	65
66	SurveilNet: A Lightweight Anomaly Detection System for Cooperative IoT Surveillance Networks. IEEE Sensors Journal, 2021, 21, 25293-25306.	2.4	7
67	Reputation-Based Federated Learning for Secure Wireless Networks. IEEE Internet of Things Journal, 2022, 9, 1212-1226.	5.5	27
68	An Inclusive Finance Consortium Blockchain Platform for Secure Data Storage and Value Analysis for Small and Medium-Sized Enterprises. Lecture Notes in Computer Science, 2021, , 419-429.	1.0	0
69	Blockchain- and Deep Learning-Empowered Resource Optimization in Future Cellular Networks, Edge Computing, and IoT: Open Challenges and Current Solutions. , 2021, , 441-474.		2
70	BAFL: A Blockchain-Based Asynchronous Federated Learning Framework. IEEE Transactions on Computers, 2022, 71, 1092-1103.	2.4	61
71	IIoT Data Sharing Based on Blockchain: A Multileader Multifollower Stackelberg Game Approach. IEEE Internet of Things Journal, 2022, 9, 4396-4410.	5.5	22
72	A Survey on Federated Learning for Resource-Constrained IoT Devices. IEEE Internet of Things Journal, 2022, 9, 1-24.	5.5	215

#	ARTICLE	IF	CITATIONS
73	Secure, Robust and Flexible Cooperative Downloading Scheme for Highway VANETs. IEEE Access, 2021, 9, 5199-5211.	2.6	8
74	Friend-as-Learner: Socially-Driven Trustworthy and Efficient Wireless Federated Edge Learning. IEEE Transactions on Mobile Computing, 2023, 22, 269-283.	3.9	19
75	A Unified Federated DNNs Framework for Heterogeneous Mobile Devices. IEEE Internet of Things Journal, 2022, 9, 1737-1748.	5.5	6
76	Optimizing Task Assignment for Reliable Blockchain-Empowered Federated Edge Learning. IEEE Transactions on Vehicular Technology, 2021, 70, 1910-1923.	3.9	53
77	Artifact: Opportunistic Federated Learning: An Exploration of Egocentric Collaboration for Pervasive Computing Applications. , 2021, , .		0
78	Blockchain Empowered Reliable Federated Learning by Worker Selection: A Trustworthy Reputation Evaluation Method. , 2021, , .		16
79	Reputation-Based Regional Federated Learning for Knowledge Trading in Blockchain-Enhanced IoV. , 2021, , .		24
80	Opportunistic Federated Learning: An Exploration of Egocentric Collaboration for Pervasive Computing Applications. , 2021, , .		9
81	Distributed Resource Allocation for NOMA-Based Mobile Edge Computing with Content Caching. , 2021, , .		1
82	Enhancing Federated Learning in Fog-Aided IoT by CPU Frequency and Wireless Power Control. IEEE Internet of Things Journal, 2021, 8, 3438-3445.	5.5	39
83	Incentive Mechanism for Horizontal Federated Learning Based on Reputation and Reverse Auction. , 2021, , .		47
84	Decentralised Learning in Federated Deployment Environments. ACM Computing Surveys, 2022, 54, 1-38.	16.1	50
85	URLLC Resource Slicing and Scheduling in 5G Vehicular Edge Computing. , 2021, , .		5
86	From Server-Based to Client-Based Machine Learning. ACM Computing Surveys, 2022, 54, 1-36.	16.1	11
87	Incentive-Based Coded Distributed Computing Management for Latency Reduction in IoT Services—A Game Theoretic Approach. IEEE Internet of Things Journal, 2021, 8, 8259-8278.	5.5	11
88	FAIR: Quality-Aware Federated Learning with Precise User Incentive and Model Aggregation. , 2021, , .		56
89	An Incentive Mechanism for Cross-Silo Federated Learning: A Public Goods Perspective. , 2021, , .		42
90	A Systematic Literature Review of Blockchain-based Federated Learning: Architectures, Applications and Issues. , 2021, , .		17

#	ARTICLE	IF	CITATIONS
91	A Blockchain-Based Approach for Saving and Tracking Differential-Privacy Cost. IEEE Internet of Things Journal, 2021, 8, 8865-8882.	5.5	12
92	Blockchain and Federated Learning for Collaborative Intrusion Detection in Vehicular Edge Computing. IEEE Transactions on Vehicular Technology, 2021, 70, 6073-6084.	3.9	114
93	Privacy-preserving Decentralized Learning Framework for Healthcare System. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-24.	3.0	24
94	Identity Management with Hybrid Blockchain Approach: A Deliberate Extension with Federated-Inverse-Reinforcement Learning. , 2021, , .		4
95	RA-RL: Reputation-Aware Edge Device Selection Method based on Reinforcement Learning. , 2021, , .		0
96	The internet-of-vehicle traffic condition system developed by artificial intelligence of things. Journal of Supercomputing, 2022, 78, 2665-2680.	2.4	2
97	Incentivizing Differentially Private Federated Learning: A Multidimensional Contract Approach. IEEE Internet of Things Journal, 2021, 8, 10639-10651.	5.5	55
98	On Addressing Heterogeneity in Federated Learning for Autonomous Vehicles Connected to a Drone Orchestrator. Frontiers in Communications and Networks, 2021, 2, .	1.9	4
99	Optimal Incentive and Load Design for Distributed Coded Machine Learning. IEEE Journal on Selected Areas in Communications, 2021, 39, 2090-2104.	9.7	4
100	Privacy-Preserving Incentive Mechanism Design for Federated Cloud-Edge Learning. IEEE Transactions on Network Science and Engineering, 2021, 8, 2588-2600.	4.1	21
101	Energy-Efficient Device Selection in Federated Edge Learning. , 2021, , .		4
102	FedCM: A Real-time Contribution Measurement Method for Participants in Federated Learning. , 2021, , .		6
103	An Incentive Mechanism for Federated Learning in Wireless Cellular Networks: An Auction Approach. IEEE Transactions on Wireless Communications, 2021, 20, 4874-4887.	6.1	81
104	Cyber Insurance Design for Validator Rotation in Sharded Blockchain Networks: A Hierarchical Game-Based Approach. IEEE Transactions on Network and Service Management, 2021, 18, 3092-3106.	3.2	11
105	The Applications of Blockchain in Artificial Intelligence. Security and Communication Networks, 2021, 2021, 1-16.	1.0	10
106	Contract Design in Hierarchical Game for Sponsored Content Service Market. IEEE Transactions on Mobile Computing, 2021, 20, 2763-2778.	3.9	17
107	Integration of blockchain and federated learning for Internet of Things: Recent advances and future challenges. Computers and Security, 2021, 108, 102355.	4.0	74
108	BlockFITS: A Federated Data Augmentation Modelling for Blockchain-Based IoT Systems. Advances in Intelligent Systems and Computing, 2022, , 253-262.	0.5	2

#	ARTICLE	IF	CITATIONS
109	Federated Learning for Audio Semantic Communication. <i>Frontiers in Communications and Networks</i> , 2021, 2, .	1.9	18
110	An Incentive Approach in Mobile Crowdsensing for Perceptual User. , 2021, , .		1
111	Data-Quality Based Scheduling for Federated Edge Learning. , 2021, , .		7
112	URLLC resource slicing and scheduling for trustworthy 6G vehicular services: A federated reinforcement learning approach. <i>Physical Communication</i> , 2021, 49, 101470.	1.2	11
113	SPDS: A Secure and Auditable Private Data Sharing Scheme for Smart Grid Based on Blockchain. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 7688-7699.	7.2	71
114	TrustFed: A Framework for Fair and Trustworthy Cross-Device Federated Learning in IIoT. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 8485-8494.	7.2	56
115	Incentive mechanism for collaborative distributed learning in Artificial Intelligence of Things. <i>Future Generation Computer Systems</i> , 2021, 125, 376-384.	4.9	8
116	Dynamic Digital Twin and Federated Learning With Incentives for Air-Ground Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2022, 9, 321-333.	4.1	75
117	Secure and Efficient Federated Learning for Smart Grid With Edge-Cloud Collaboration. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 1333-1344.	7.2	85
118	Federated Learning Research: Trends and Bibliometric Analysis. <i>Studies in Computational Intelligence</i> , 2021, , 1-19.	0.7	6
119	A Blockchain-Based Machine Learning Framework for Edge Services in IIoT. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 1918-1929.	7.2	58
120	Federated Learning for Internet of Things: Recent Advances, Taxonomy, and Open Challenges. <i>IEEE Communications Surveys and Tutorials</i> , 2021, 23, 1759-1799.	24.8	290
121	Challenges, Applications and Design Aspects of Federated Learning: A Survey. <i>IEEE Access</i> , 2021, 9, 124682-124700.	2.6	45
122	Execution of a Federated Learning process within a smart contract. , 2021, , .		9
123	Federated Machine Learning: Survey, Multi-Level Classification, Desirable Criteria and Future Directions in Communication and Networking Systems. <i>IEEE Communications Surveys and Tutorials</i> , 2021, 23, 1342-1397.	24.8	243
124	Survey on 6G Frontiers: Trends, Applications, Requirements, Technologies and Future Research. <i>IEEE Open Journal of the Communications Society</i> , 2021, 2, 836-886.	4.4	294
125	Scalable and Communication-Efficient Decentralized Federated Edge Learning with Multi-blockchain Framework. <i>Communications in Computer and Information Science</i> , 2020, , 152-165.	0.4	22
126	Federated Learning Meets Contract Theory: Economic-Efficiency Framework for Electric Vehicle Networks. <i>IEEE Transactions on Mobile Computing</i> , 2022, 21, 2803-2817.	3.9	23



#	ARTICLE	IF	CITATIONS
127	Blockchain-Enabled Edge Intelligence for IoT: Background, Emerging Trends and Open Issues. Future Internet, 2021, 13, 48.	2.4	27
128	Faithful Edge Federated Learning: Scalability and Privacy. IEEE Journal on Selected Areas in Communications, 2021, 39, 3790-3804.	9.7	20
129	Pain-FL: Personalized Privacy-Preserving Incentive for Federated Learning. IEEE Journal on Selected Areas in Communications, 2021, 39, 3805-3820.	9.7	40
130	Dynamic Edge Association and Resource Allocation in Self-Organizing Hierarchical Federated Learning Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 3640-3653.	9.7	70
131	Federated Learning for Cybersecurity: Concepts, Challenges, and Future Directions. IEEE Transactions on Industrial Informatics, 2022, 18, 3501-3509.	7.2	114
132	A Truthful Procurement Auction for Incentivizing Heterogeneous Clients in Federated Learning. , 2021, , .		6
133	FIFL: A Fair Incentive Mechanism for Federated Learning. , 2021, , .		11
134	Toward Responsible AI: An Overview of Federated Learning for User-centered Privacy-preserving Computing. ACM Transactions on Interactive Intelligent Systems, 2021, 11, 1-22.	2.6	7
135	Estimation of Individual Device Contributions for Incentivizing Federated Learning. , 2020, , .		8
136	Decentralized Incentive Mechanism for Cooperative Content Dissemination in Vehicular Networks. , 2020, , .		3
137	Incentive Mechanism Design for Federated Learning: A Two-stage Stackelberg Game Approach. , 2020, , .		9
138	Incentive Mechanism Design for Mobile Crowdsensing Considering Social Networks. , 2020, , .		3
139	Robust Federated Learning Approach for Travel Mode Identification from Non-IID GPS Trajectories. , 2020, , .		10
140	Correlated Participation Decision Making for Federated Edge Learning. , 2020, , .		4
141	A Survey on Federated Learning Systems: Vision, Hype and Reality for Data Privacy and Protection. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 3347-3366.	4.0	209
142	Dynamic Federated Learning-Based Economic Framework for Internet-of-Vehicles. IEEE Transactions on Mobile Computing, 2023, 22, 2100-2115.	3.9	11
143	Fed-DFE: A Decentralized Function Encryption-Based Privacy-Preserving Scheme for Federated Learning. Computers, Materials and Continua, 2022, 71, 1867-1886.	1.5	5
144	Nothing Wasted: Full Contribution Enforcement in Federated Edge Learning. IEEE Transactions on Mobile Computing, 2023, 22, 2850-2861.	3.9	9

#	ARTICLE	IF	CITATIONS
145	FedCoin: A Peer-to-Peer Payment System for Federated Learning. Lecture Notes in Computer Science, 2020, , 125-138.	1.0	50
146	A Principled Approach to Data Valuation for Federated Learning. Lecture Notes in Computer Science, 2020, , 153-167.	1.0	39
147	A Secure Multi-party Computational Adversary Selection Model Based on Time-Varying of Entropy. Lecture Notes in Computer Science, 2020, , 566-577.	1.0	0
148	Energy Optimization for NOMA assisted Federated Learning with Secrecy Provisioning. , 2021, , .		0
149	KDV-explorer. Proceedings of the VLDB Endowment, 2021, 14, 2655-2658.	2.1	14
150	Learning Based Efficient Federated Learning for Object Detection in MEC Against Jamming. , 2021, , .		0
152	Data-Free Evaluation of User Contributions in Federated Learning. , 2021, , .		4
153	Cooperative Federated Learning and Model Update Verification in Blockchain-Empowered Digital Twin Edge Networks. IEEE Internet of Things Journal, 2022, 9, 11154-11167.	5.5	32
154	Machine Learning in Mobile Crowd Sourcing: A Behavior-Based Recruitment Model. ACM Transactions on Internet Technology, 2022, 22, 1-28.	3.0	14
155	Secure verifiable aggregation for blockchain-based federated averaging. High-Confidence Computing, 2022, 2, 100046.	2.2	8
156	Blockchain for federated learning toward secure distributed machine learning systems: a systemic survey. Soft Computing, 2022, 26, 4423-4440.	2.1	80
157	Fairness, integrity, and privacy in a scalable blockchain-based federated learning system. Computer Networks, 2022, 202, 108621.	3.2	23
158	Unleashing the Tiger: Inference Attacks on Split Learning. , 2021, , .		46
159	A reward response game in the blockchain-powered federated learning system. International Journal of Parallel, Emergent and Distributed Systems, 2022, 37, 68-90.	0.7	2
160	Towards Communication-Efficient and Attack-Resistant Federated Edge Learning for Industrial Internet of Things. ACM Transactions on Internet Technology, 2022, 22, 1-22.	3.0	17
161	Bift: A Blockchain-Based Federated Learning System for Connected and Autonomous Vehicles. IEEE Internet of Things Journal, 2022, 9, 12311-12322.	5.5	27
162	Dronesâ€™ Edge Intelligence Over Smart Environments in B5G: Blockchain and Federated Learning Synergy. IEEE Transactions on Green Communications and Networking, 2022, 6, 295-312.	3.5	58
164	Incentive Mechanism for Differentially Private Federated Learning in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2022, 18, 6927-6939.	7.2	9

#	ARTICLE	IF	CITATIONS
165	Reputation-aware Hedonic Coalition Formation for Efficient Serverless Hierarchical Federated Learning. IEEE Transactions on Parallel and Distributed Systems, 2021, , 1-1.	4.0	10
167	Toward Crowdsourced Transportation Mode Identification: A Semisupervised Federated Learning Approach. IEEE Internet of Things Journal, 2022, 9, 11868-11882.	5.5	12
168	BESIFL: Blockchain-Empowered Secure and Incentive Federated Learning Paradigm in IoT. IEEE Internet of Things Journal, 2023, 10, 6561-6573.	5.5	21
169	Federated Learning With Fair Incentives and Robust Aggregation for UAV-Aided Crowdsensing. IEEE Transactions on Network Science and Engineering, 2022, 9, 3179-3196.	4.1	31
170	Blockchain and Federated Edge Learning for Privacy-Preserving Mobile Crowdsensing. IEEE Internet of Things Journal, 2023, 10, 12000-12011.	5.5	16
171	Incentivizing Federated Learning Under Long-Term Energy Constraint via Online Randomized Auctions. IEEE Transactions on Wireless Communications, 2022, 21, 5129-5144.	6.1	4
172	Federated Learning-Based Content Popularity Prediction in Fog Radio Access Networks. IEEE Transactions on Wireless Communications, 2022, 21, 3836-3849.	6.1	9
173	The Internet of Federated Things (IoFT). IEEE Access, 2021, 9, 156071-156113.	2.6	15
174	Secure and privacy-preserving crowdsensing using smart contracts: Issues and solutions. Computer Science Review, 2022, 43, 100450.	10.2	22
175	AUCTION: Automated and Quality-Aware Client Selection Framework for Efficient Federated Learning. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 1996-2009.	4.0	58
176	Towards Efficient, Credible and Privacy-Preserving Service QoS Prediction in Unreliable Mobile Edge Environments. , 2020, , .		5
177	An Exploratory Analysis on Usersâ€™ Contributions in Federated Learning. , 2020, , .		13
178	Federated Learning Service Market: A Game Theoretic Analysis. , 2020, , .		9
180	A Blockchain Based Federated Learning for Message Dissemination in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 1927-1940.	3.9	31
181	A Reward Response Game in the Federated Learning System. , 2021, , .		7
182	Towards a Secure and Reliable Federated Learning using Blockchain. , 2021, , .		14
183	A Robust Game-Theoretical Federated Learning Framework With Joint Differential Privacy. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 3333-3346.	4.0	12
184	A fine-grained medical data sharing scheme based on federated learning. Concurrency Computation Practice and Experience, 0, , .	1.4	2

#	ARTICLE	IF	CITATIONS
185	A blockchain-based creditable and distributed incentive mechanism for participant mobile crowdsensing in edge computing. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 3285-3312.	1.0	3
186	Federated Learning Incentive Mechanism Design via Enhanced Shapley Value Method. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-11.	0.8	3
187	Federated Transfer Learning With Client Selection for Intrusion Detection in Mobile Edge Computing. <i>IEEE Communications Letters</i> , 2022, 26, 552-556.	2.5	28
188	Personalized Federated Learning. <i>EAI/Springer Innovations in Communication and Computing</i> , 2022, , 31-52.	0.9	8
189	A privacy-preserving and verifiable federated learning method based on blockchain. <i>Computer Communications</i> , 2022, 186, 1-11.	3.1	17
190	Semi-Synchronous Federated Learning Protocol With Dynamic Aggregation in Internet of Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2022, 71, 4677-4691.	3.9	20
191	Enabling Long-Term Cooperation in Cross-Silo Federated Learning: A Repeated Game Perspective. <i>IEEE Transactions on Mobile Computing</i> , 2023, 22, 3910-3924.	3.9	9
192	GTG-Shapley: Efficient and Accurate Participant Contribution Evaluation in Federated Learning. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2022, 13, 1-21.	2.9	24
193	FGFL: A blockchain-based fair incentive governor for Federated Learning. <i>Journal of Parallel and Distributed Computing</i> , 2022, 163, 283-299.	2.7	22
194	A survey: Distributed Machine Learning for 5G and beyond. <i>Computer Networks</i> , 2022, 207, 108820.	3.2	25
195	Federated Learning for 6G: Applications, Challenges, and Opportunities. <i>Engineering</i> , 2022, 8, 33-41.	3.2	105
196	Utility Fairness for the Differentially Private Federated-Learning-Based Wireless IoT Networks. <i>IEEE Internet of Things Journal</i> , 2022, 9, 19398-19413.	5.5	4
197	GAIMMO: A Grade-Driven Auction-Based Incentive Mechanism With Multiple Objectives for Crowdsourcing Managed by Blockchain. <i>IEEE Internet of Things Journal</i> , 2022, 9, 17488-17502.	5.5	14
198	Solving the Federated Edge Learning Participation Dilemma: A Truthful and Correlated Perspective. <i>IEEE Transactions on Vehicular Technology</i> , 2022, 71, 7680-7690.	3.9	2
199	Federated Learning Over Wireless IoT Networks With Optimized Communication and Resources. <i>IEEE Internet of Things Journal</i> , 2022, 9, 16592-16605.	5.5	35
200	Incentivizing Semisupervised Vehicular Federated Learning: A Multidimensional Contract Approach With Bounded Rationality. <i>IEEE Internet of Things Journal</i> , 2022, 9, 18573-18588.	5.5	9
201	Privacy-Preserved Credit Data Sharing Integrating Blockchain and Federated Learning for Industrial 4.0. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 8755-8764.	7.2	20
202	Mobile Devices Strategies in Blockchain-Based Federated Learning: A Dynamic Game Perspective. <i>IEEE Transactions on Network Science and Engineering</i> , 2023, 10, 1376-1388.	4.1	9

#	ARTICLE	IF	CITATIONS
204	High-Quality Model Aggregation for Blockchain-Based Federated Learning via Reputation-Motivated Task Participation. IEEE Internet of Things Journal, 2022, 9, 18378-18391.	5.5	29
205	Joint Training and Resource Allocation Optimization for Federated Learning in UAV Swarm. IEEE Internet of Things Journal, 2023, 10, 2272-2284.	5.5	10
206	CoRoL: A Reliable Framework for Computation Offloading in Collaborative Robots. IEEE Internet of Things Journal, 2022, 9, 18195-18207.	5.5	4
207	Machine Learning in Real-Time Internet of Things (IoT) Systems: A Survey. IEEE Internet of Things Journal, 2022, 9, 8364-8386.	5.5	15
208	FedTor: An Anonymous Framework of Federated Learning in Internet of Things. IEEE Internet of Things Journal, 2022, 9, 18620-18631.	5.5	7
209	Privacy-Preserving and Reliable Federated Learning. Lecture Notes in Computer Science, 2022, , 346-361.	1.0	1
210	Collaboration Tiredness Aware Manufacturing Service Collaboration Incentive and Optimization. IEEE Transactions on Industrial Informatics, 2023, 19, 3341-3350.	7.2	1
211	Blockchain-based incentive management framework for desktop clouds. Cluster Computing, 2023, 26, 137-156.	3.5	3
212	Blockchain-enabled Federated Learning: A Survey. ACM Computing Surveys, 2023, 55, 1-35.	16.1	49
213	Incentive-Based Delay Minimization for 6G-Enabled Wireless Federated Learning. Frontiers in Communications and Networks, 2022, 3, .	1.9	0
214	Bruce Lee-Inspired Fluid Antenna System: Six Research Topics and the Potentials for 6G. Frontiers in Communications and Networks, 2022, 3, .	1.9	23
215	Intrinsic Performance Influence-based Participant Contribution Estimation for Horizontal Federated Learning. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-24.	2.9	1
216	An approach of flow compensation incentive based on Q-Learning strategy for IoT user privacy protection. AEU - International Journal of Electronics and Communications, 2022, 148, 154172.	1.7	21
217	Device scheduling and channel allocation for energy-efficient Federated Edge Learning. Computer Communications, 2022, 189, 53-66.	3.1	1
218	Federated learning empowered mobility-aware proactive content offloading framework for fog radio access networks. Future Generation Computer Systems, 2022, 133, 307-319.	4.9	4
219	EPS: An earthquake prediction system using Federated Learning. , 2021, , .		1
220	Mobile Blockchain-Empowered Federated Learning: Current Situation And Further Prospect. , 2021, , .		2
221	Trustworthiness in the GUWMANET Protocol for Underwater Acoustic Mobile Ad-Hoc Networks. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
222	A Privacy-Preserving Incentive Mechanism for Federated Cloud-Edge Learning. , 2021, , .		4
223	A Secure Softwarized Blockchain-based Federated Health Alliance for Next Generation IoT Networks. , 2021, , .		7
224	The Design of Reputation System for Blockchain-based Federated Learning. , 2021, , .		1
225	Joint UAV Location and Resource Allocation for Air-Ground Integrated Federated Learning. , 2021, , .		7
226	Challenges and future directions of secure federated learning: a survey. Frontiers of Computer Science, 2022, 16, 165817.	1.6	45
227	A Consensus Rewarding Protocol based on Two-Dimensional Contract for Blockchain Networks. , 2021, , .		1
228	A Joint Communication and Federated Learning Framework for Internet of Things Networks. , 2021, , .		3
229	Incentive Mechanism for AI-Based Mobile Applications with Coded Federated Learning. , 2021, , .		1
230	Resilient and Verifiable Federated Learning against Byzantine Colluding Attacks. , 2021, , .		0
231	Contribution- and Participation-Based Federated Learning on Non-IID Data. IEEE Intelligent Systems, 2022, 37, 35-43.	4.0	7
232	Incentive mechanism for federated learning based on blockchain and Bayesian game. Scientia Sinica Informationis, 2022, 52, 971.	0.2	3
233	Distributed Incentive Mechanism Based on Hyperledger Fabric. Journal of Physics: Conference Series, 2022, 2224, 012130.	0.3	1
234	A novel reputation-based consensus framework (RCF) in distributed ledger technology. Computer Communications, 2022, , .	3.1	2
235	FedFog: Network-Aware Optimization of Federated Learning Over Wireless Fog-Cloud Systems. IEEE Transactions on Wireless Communications, 2022, 21, 8581-8599.	6.1	4
236	Blockchain Empowered Federated Learning for Data Sharing Incentive Mechanism. Procedia Computer Science, 2022, 202, 348-353.	1.2	4
237	Secure and Reliable Transfer Learning Framework for 6G-Enabled Internet of Vehicles. IEEE Wireless Communications, 2022, 29, 132-139.	6.6	15
238	Automatic Double-Auction Mechanism for Federated Learning Service Market in Internet of Things. IEEE Transactions on Network Science and Engineering, 2022, 9, 3123-3135.	4.1	13
239	MotiLearn: Contract-Based Incentive Mechanism for Heterogeneous Edge Collaborative Training. IEEE Transactions on Network Science and Engineering, 2022, 9, 2895-2909.	4.1	0

#	ARTICLE	IF	CITATIONS
240	FL-MAB. , 2022, , .		6
241	A Blockchain-Based Privacy Information Security Sharing Scheme in Industrial Internet of Things. Sensors, 2022, 22, 3426.	2.1	7
242	Data pricing in machine learning pipelines. Knowledge and Information Systems, 2022, 64, 1417-1455.	2.1	9
243	Blockchain-Enabled Federated Learning for UAV Edge Computing Network: Issues and Solutions. IEEE Access, 2022, 10, 56591-56610.	2.6	21
244	A blockchain-based audit approach for encrypted data in federated learning. Digital Communications and Networks, 2022, 8, 614-624.	2.7	12
245	Energy-Aware Device Scheduling for Joint Federated Learning in Edge-assisted Internet of Agriculture Things. , 2022, , .		5
246	Semisupervised Federated-Learning-Based Intrusion Detection Method for Internet of Things. IEEE Internet of Things Journal, 2023, 10, 8645-8657.	5.5	21
247	Power of Redundancy: Surplus Client Scheduling for Federated Learning against User Uncertainties. IEEE Transactions on Mobile Computing, 2022, , 1-1.	3.9	7
248	Channel-Based Trust Model for Security in Underwater Acoustic Networks. IEEE Internet of Things Journal, 2022, 9, 20479-20491.	5.5	6
249	A Holistic Client Selection Scheme in Federated Mobile CrowdSensing Based on Reverse Auction. , 2022, , .		2
250	Communication-Efficient and Cross-Chain Empowered Federated Learning for Artificial Intelligence of Things. IEEE Transactions on Network Science and Engineering, 2022, 9, 2966-2977.	4.1	37
251	Incentive Mechanisms for Federated Learning: From Economic and Game Theoretic Perspective. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1566-1593.	4.9	36
252	Federated Learning Framework with Straggling Mitigation and Privacy-Awareness for AI-based Mobile Application Services. IEEE Transactions on Mobile Computing, 2022, , 1-1.	3.9	2
253	Efficient Federated Learning With Spike Neural Networks for Traffic Sign Recognition. IEEE Transactions on Vehicular Technology, 2022, 71, 9980-9992.	3.9	36
254	A blockchain based privacy-preserving federated learning scheme for Internet of Vehicles. Digital Communications and Networks, 2022, , .	2.7	25
255	Blockchain for AI: A Disruptive Integration. , 2022, , .		2
256	Federated Learning for Smart Healthcare: A Survey. ACM Computing Surveys, 2023, 55, 1-37.	16.1	147
257	Air-Ground Integrated Federated Learning: An Experimental Implementation. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
258	Experimental Results of Federated Learning in Unmanned Aerial Vehicle Swarm. , 2021, , .		1
259	Efficient Edge Intelligence under Clustering for UAV Swarm Networks. , 2021, , .		3
260	Resource-Efficient DNN Training and Inference for Heterogeneous Edge Intelligence in 6G. , 2021, , .		2
261	Semi-Supervised Federated Learning with non-IID Data: Algorithm and System Design. , 2021, , .		6
262	An Incentive Auction for Heterogeneous Client Selection in Federated Learning. IEEE Transactions on Mobile Computing, 2023, 22, 5733-5750.	3.9	5
263	Toward Secure Federated Learning for IoT Using DRL-Enabled Reputation Mechanism. IEEE Internet of Things Journal, 2022, 9, 21971-21983.	5.5	5
264	Sandbox Computing: A Data Privacy Trusted Sharing Paradigm via Blockchain and Federated Learning. IEEE Transactions on Computers, 2022, , 1-12.	2.4	3
265	Rendering Secure and Trustworthy Edge Intelligence in 5G-Enabled IIoT Using Proof of Learning Consensus Protocol. IEEE Transactions on Industrial Informatics, 2023, 19, 900-909.	7.2	2
266	Exploring Deep-Reinforcement-Learning-Assisted Federated Learning for Online Resource Allocation in Privacy-Preserving EdgeloT. IEEE Internet of Things Journal, 2022, 9, 21099-21110.	5.5	20
267	A Profit-Maximizing Model Marketplace with Differentially Private Federated Learning. , 2022, , .		6
268	NeuroMessenger: Towards Error Tolerant Distributed Machine Learning Over Edge Networks. , 2022, , .		2
269	Integrating Edge Intelligence and Blockchain: What, Why, and How. IEEE Communications Surveys and Tutorials, 2022, 24, 2193-2229.	24.8	13
270	Multiagent Reinforcement Learning-Based Semi-Persistent Scheduling Scheme in C-V2X Mode 4. IEEE Transactions on Vehicular Technology, 2022, 71, 12044-12056.	3.9	10
271	Incentive Framework for Cross-Device Federated Learning and Analytics With Multiple Tasks Based on a Multi-Leader-Follower Game. IEEE Transactions on Network Science and Engineering, 2022, 9, 3749-3761.	4.1	6
273	BFCRI: A Blockchain-Based Framework for Crowdsourcing With Reputation and Incentive. IEEE Transactions on Cloud Computing, 2023, 11, 2158-2174.	3.1	3
274	Federated Learning Cost Disparity for IoT Devices. , 2022, , .		3
275	Delta-DAGMM: A Free Rider Attack Detection Model in Horizontal Federated Learning. Security and Communication Networks, 2022, 2022, 1-13.	1.0	1
276	Dynamic incentive mechanism in mobile crowdsourcing networks by combining reputation and contract theory. International Journal of Distributed Sensor Networks, 2022, 18, 155013292211043.	1.3	2



#	ARTICLE	IF	CITATIONS
277	Decentralized federated meta-learning framework for few-shot multitask learning. International Journal of Intelligent Systems, 2022, 37, 8490-8522.	3.3	6
278	Computing in the Sky: A Survey on Intelligent Ubiquitous Computing for UAV-Assisted 6G Networks and Industry 4.0/5.0. Drones, 2022, 6, 177.	2.7	54
279	Incentive techniques for the Internet of Things: A survey. Journal of Network and Computer Applications, 2022, 206, 103464.	5.8	34
280	Secure and Efficient Blockchain-Assisted Authentication for Edge-Integrated Internet-of-Vehicles. IEEE Transactions on Vehicular Technology, 2022, 71, 12250-12263.	3.9	26
281	Differentially Private Auction for Federated Learning with Non-IID Data. , 2022, , .		0
282	On-Demand Incentive Design for Security-Defense Resource Allocation in 6G Vehicular Edge Learning. , 2022, , .		0
283	Client Discovery and Data Exchange in Edge-based Federated Learning via Named Data Networking. , 2022, , .		2
284	Secure Federated Learning for IoT using DRL-based Trust Mechanism. , 2022, , .		4
285	In-Network Caching and Learning Optimization for Federated Learning in Mobile Edge Networks. , 2022, , .		0
286	A Worker Selection Scheme for Vehicle Crowdsourcing Blockchain. , 2022, , .		1
287	ValidatorRep: Blockchain-based Trust Management for Ensuring Accountability in Crowdsourcing. , 2022, , .		1
288	Future Direction of AI in Block-chain for security systems – A Comprehensive Report. Journal of Soft Computing Paradigm, 2022, 4, 101-112.	2.9	1
289	Smart work package learning for decentralized fatigue monitoring through facial images. Computer-Aided Civil and Infrastructure Engineering, 2023, 38, 799-817.	6.3	4
290	A survey on blockchain-enabled federated learning and its prospects with digital twin. Digital Communications and Networks, 2022, , .	2.7	10
291	Federated Learning and Its Role in the Privacy Preservation of IoT Devices. Future Internet, 2022, 14, 246.	2.4	23
292	Incentive-based Resource Allocation for Mobile Edge Learning. , 2022, , .		0
293	Improving Federated Learning With Quality-Aware User Incentive and Auto-Weighted Model Aggregation. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 4515-4529.	4.0	14
294	Digital Twin of Wireless Systems: Overview, Taxonomy, Challenges, and Opportunities. IEEE Communications Surveys and Tutorials, 2022, 24, 2230-2254.	24.8	51

#	ARTICLE	IF	CITATIONS
296	Pricing-based resource allocation in three-tier edge computing for social welfare maximization. Computer Networks, 2022, 217, 109311.	3.2	0
297	Pervasive AI for IoT Applications: A Survey on Resource-Efficient Distributed Artificial Intelligence. IEEE Communications Surveys and Tutorials, 2022, 24, 2366-2418.	24.8	29
298	Collaboration in Participant-Centric Federated Learning: A Game-Theoretical Perspective. IEEE Transactions on Mobile Computing, 2022, , 1-16.	3.9	5
299	Incentive Mechanisms in Federated Learning and A Game-Theoretical Approach. IEEE Network, 2022, 36, 229-235.	4.9	14
300	Survey on Digital Twin Edge Networks (DITEN) Toward 6G. IEEE Open Journal of the Communications Society, 2022, 3, 1360-1381.	4.4	29
301	Trustworthy Federated Learning via Blockchain. IEEE Internet of Things Journal, 2023, 10, 92-109.	5.5	21
302	Blockchain Driven Edge Intelligence. Wireless Networks, 2022, , 43-78.	0.3	0
303	Federated Learning at Mobile Edge Networks: A Tutorial. Wireless Networks, 2022, , 1-51.	0.3	1
304	FedTwin: Blockchain-Enabled Adaptive Asynchronous Federated Learning for Digital Twin Networks. IEEE Network, 2022, 36, 183-190.	4.9	20
305	FedMarket: A Cryptocurrency Driven Marketplace for Mobile Federated Learning Services. IEEE Access, 2022, 10, 87602-87616.	2.6	1
306	Cross-Area Travel Time Uncertainty Estimation From Trajectory Data: A Federated Learning Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 24966-24978.	4.7	4
307	Evolutionary Edge Association and Auction in Hierarchical Federated Learning. Wireless Networks, 2022, , 117-145.	0.3	0
308	Collective Deep Reinforcement Learning for Intelligence Sharing in the Internet of Intelligence-Empowered Edge Computing. IEEE Transactions on Mobile Computing, 2022, , 1-16.	3.9	13
309	Quality- and Availability-Based Device Scheduling and Resource Allocation for Federated Edge Learning. IEEE Communications Letters, 2022, 26, 2626-2630.	2.5	1
310	Blockchain-based Federated Learning Framework Applied in Face Recognition. , 2022, , .		1
311	FedDP: A Privacy-Protecting Theft Detection Scheme in Smart Grids Using Federated Learning. Energies, 2022, 15, 6241.	1.6	12
312	VFLF: A verifiable federated learning framework against malicious aggregators in Industrial Internet of Things. Concurrency Computation Practice and Experience, 0, , .	1.4	1
313	Securing federated learning with blockchain: a systematic literature review. Artificial Intelligence Review, 2023, 56, 3951-3985.	9.7	26

#	ARTICLE	IF	CITATIONS
314	A Hybrid Incentive Mechanism for Decentralized Federated Learning. , 2022, 1, 1-15.		2
315	Blockchain-Based Federated Learning for Securing Internet of Things: A Comprehensive Survey. ACM Computing Surveys, 2023, 55, 1-43.	16.1	69
316	A Contract Theory Based Incentive Mechanism for Federated Learning. Adaptation, Learning, and Optimization, 2023, , 117-137.	0.5	4
317	A survey on participant selection for federated learning in mobile networks. , 2022, , .		8
318	Dynamic mode selection and resource allocation approach for 5G-vehicle-to-everything (V2X) communication using asynchronous federated deep reinforcement learning method. Vehicular Communications, 2022, 38, 100532.	2.7	3
319	A Study of Blockchain-Based Federated Learning. Adaptation, Learning, and Optimization, 2023, , 139-165.	0.5	3
320	DFHelper: Help clients to participate in federated learning tasks. Applied Intelligence, 0, , .	3.3	0
321	InFEDGE: A Blockchain-Based Incentive Mechanism in Hierarchical Federated Learning for End-Edge-Cloud Communications. IEEE Journal on Selected Areas in Communications, 2022, 40, 3325-3342.	9.7	23
322	Towards More Efficient Data Valuation in Healthcare Federated Learning Using Ensembling. Lecture Notes in Computer Science, 2022, , 119-129.	1.0	1
323	On the Employment of Machine Learning in the Blockchain Selection Process. IEEE Transactions on Network and Service Management, 2022, 19, 3835-3846.	3.2	0
324	A Novel Layered GSP Incentive Mechanism for Federated Learning Combined with Blockchain. Lecture Notes in Electrical Engineering, 2022, , 310-318.	0.3	0
325	Sustainable Federated Learning with Long-term Online VCG Auction Mechanism. , 2022, , .		2
326	An Exhaustive Investigation on Resource-aware Client Selection Mechanisms for Cross-device Federated Learning. , 2022, , .		4
327	Reliability and Incentive of Performance Assessment for Decentralized Clouds. Journal of Computer Science and Technology, 2022, 37, 1176-1199.	0.9	0
328	Trusted Multi-Domain DDoS Detection Based on Federated Learning. Sensors, 2022, 22, 7753.	2.1	3
329	Reputation-Based Blockchain for Spatial Crowdsourcing in Vehicular Networks. Applied Sciences (Switzerland), 2022, 12, 11049.	1.3	1
330	JIRA: Joint Incentive Design and Resource Allocation for Edge-Based Real-Time Video Streaming Systems. IEEE Transactions on Wireless Communications, 2023, 22, 2901-2916.	6.1	5
331	Distributed Mechanism Design in Continuous Space for Federated Learning Over Vehicular Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 4196-4206.	3.9	1

#	ARTICLE	IF	CITATIONS
332	A Full Dive Into Realizing the Edge-Enabled Metaverse: Visions, Enabling Technologies, and Challenges. IEEE Communications Surveys and Tutorials, 2023, 25, 656-700.	24.8	116
333	Trustworthy Privacy-Preserving Hierarchical Ensemble and Federated Learning in Healthcare 4.0 With Blockchain. IEEE Transactions on Industrial Informatics, 2023, 19, 7936-7945.	7.2	9
334	Blockchain-Enabled Secure and Trusted Federated Data Sharing in IIoT. IEEE Transactions on Industrial Informatics, 2023, 19, 6669-6681.	7.2	12
335	Contract-Theory-Based Incentive Mechanism for Federated Learning in Health CrowdSensing. IEEE Internet of Things Journal, 2023, 10, 4475-4489.	5.5	8
336	Lightweight Digital Twin and Federated Learning With Distributed Incentive in Air-Ground 6G Networks. IEEE Transactions on Network Science and Engineering, 2023, 10, 1214-1227.	4.1	4
337	Energy-Efficient Space-Air-Ground Integrated Edge Computing for Internet of Remote Things: A Federated DRL Approach. IEEE Internet of Things Journal, 2023, 10, 4845-4856.	5.5	10
338	Adaptive Upgrade of Client Resources for Improving the Quality of Federated Learning Model. IEEE Internet of Things Journal, 2023, 10, 4677-4687.	5.5	5
339	Cerberus. , 2022, , .		0
340	Blockchain-empowered Federated Learning: Challenges, Solutions, and Future Directions. ACM Computing Surveys, 2023, 55, 1-31.	16.1	42
341	From Eye to Brain: A Proactive and Distributed Crowdsensing Framework for Federated Learning. IEEE Internet of Things Journal, 2023, 10, 8202-8214.	5.5	1
342	A verifiable and privacy-preserving cloud mining pool selection scheme in blockchain of things. Information Sciences, 2023, 623, 293-310.	4.0	4
343	A Game-Theoretic Federated Learning Framework for Data Quality Improvement. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 10952-10966.	4.0	6
344	A Survey of Blockchain and Intelligent Networking for the Metaverse. IEEE Internet of Things Journal, 2023, 10, 3587-3610.	5.5	50
345	Blockchain-Based Secure and Efficient Federated Learning with Three-phase Consensus and Unknown Device Selection. Lecture Notes in Computer Science, 2022, , 453-465.	1.0	0
346	Joint 3-D Position Deployment and Traffic Offloading for Caching and Computing-Enabled UAV Under Asymmetric Information. IEEE Internet of Things Journal, 2023, 10, 6312-6323.	5.5	0
347	A Two-Stage Incentive Mechanism Design for Quality Optimization of Hierarchical Federated Learning. IEEE Access, 2022, 10, 132752-132762.	2.6	1
348	Decentral and Incentivized Federated Learning Frameworks: A Systematic Literature Review. IEEE Internet of Things Journal, 2023, 10, 3642-3663.	5.5	14
349	PrivAim: A Dual-Privacy Preserving and Quality-Aware Incentive Mechanism for Federated Learning. IEEE Transactions on Computers, 2022, , 1-14.	2.4	3

#	ARTICLE	IF	CITATIONS
350	Local Model Quality Control Method Based on Credit Mortgage for Enterprise Credit Evaluation. , 2022, , .		1
353	FedCO: Communication-Efficient Federated Learning via Clustering Optimization. Future Internet, 2022, 14, 377.	2.4	5
354	Objective-Aware Reputation-Enabled Blockchain-Based Federated Learning. Lecture Notes in Networks and Systems, 2023, , 259-268.	0.5	0
355	Blockchain Secured Dynamic Machine Learning Pipeline for Manufacturing. Applied Sciences (Switzerland), 2023, 13, 782.	1.3	5
356	Valuation-Aware Federated Learning: An Auction-Based Approach for User Selection. , 2022, , .		0
357	Federated Learning for the Internet-of-Medical-Things: A Survey. Mathematics, 2023, 11, 151.	1.1	10
358	A Fair Federated Learning Framework based on Clustering. , 2022, , .		0
359	A Truthful and Reliable Incentive Mechanism for Federated Learning Based on Reputation Mechanism and Reverse Auction. Electronics (Switzerland), 2023, 12, 517.	1.8	3
360	Exploiting UAV for Air-Ground Integrated Federated Learning: A Joint UAV Location and Resource Optimization Approach. IEEE Transactions on Green Communications and Networking, 2023, 7, 1420-1433.	3.5	4
361	Heterogeneous Differential-Private Federated Learning: Trading Privacy for Utility Truthfully. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 5113-5129.	3.7	1
362	Artificial Identification: A Novel Privacy Framework for Federated Learning Based on Blockchain. IEEE Transactions on Computational Social Systems, 2023, 10, 3576-3585.	3.2	7
363	Communication-Efficient Distributed Learning: An Overview. IEEE Journal on Selected Areas in Communications, 2023, 41, 851-873.	9.7	6
364	Incentive Mechanisms in Peer-to-Peer Networks – A Systematic Literature Review. ACM Computing Surveys, 2023, 55, 1-69.	16.1	4
365	Distributed Intelligence in Wireless Networks. IEEE Open Journal of the Communications Society, 2023, , 1-1.	4.4	3
366	Distributed Joint Resource Optimization for Federated Learning Task Distribution. IEEE Transactions on Green Communications and Networking, 2023, 7, 1457-1471.	3.5	0
367	Blockchain Meets Metaverse and Digital Asset Management: A Comprehensive Survey. IEEE Access, 2023, 11, 26258-26288.	2.6	24
368	RingFFL: A Ring-Architecture-Based Fair Federated Learning Framework. Future Internet, 2023, 15, 68.	2.4	0
369	MDIFL: Robust Federated Learning Based on Malicious Detection and Incentives. Applied Sciences (Switzerland), 2023, 13, 2793.	1.3	0

#	ARTICLE	IF	CITATIONS
370	A reliable and fair federated learning mechanism for mobile edge computing. <i>Computer Networks</i> , 2023, 226, 109678.	3.2	3
371	Incentive Mechanism Design for Joint Resource Allocation in Blockchain-Based Federated Learning. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2023, 34, 1536-1547.	4.0	14
372	A two-stage federated optimization algorithm for privacy computing in Internet of Things. <i>Future Generation Computer Systems</i> , 2023, 145, 354-366.	4.9	4
373	FedDCS: A distributed client selection framework for cross device federated learning. <i>Future Generation Computer Systems</i> , 2023, 144, 24-36.	4.9	5
374	Truthful Incentive Mechanism Design via Internalizing Externalities and LP Relaxation for Vertical Federated Learning. <i>IEEE Transactions on Computational Social Systems</i> , 2023, 10, 2909-2923.	3.2	7
375	Effective Blockchain-Based Asynchronous Federated Learning for Edge-Computing. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2022, , 514-532.	0.2	0
376	Security and Privacy on 6G Network Edge: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2023, 25, 1095-1127.	24.8	20
377	Communication-Efficient Distributed Learning Over Networks—Part II: Necessary Conditions for Accuracy. <i>IEEE Journal on Selected Areas in Communications</i> , 2023, 41, 1102-1119.	9.7	3
378	Quality-Aware User Scheduling for Federated Mobile Crowdsensing. , 2022, , .		1
379	Malicious Models-based Federated Learning in Fog Computing Networks. , 2022, , .		0
380	Intrusion Detection Method Based on CNN+GRU+FL in a Smart Grid Environment. <i>Electronics (Switzerland)</i> , 2023, 12, 1164.	1.8	9
381	CAB: a combinatorial-auction-and-bargaining-based federated learning incentive mechanism. <i>World Wide Web</i> , 0, , .	2.7	0
382	Quantitative risk analysis of treatment plans for patients with tumor by mining historical similar patients from electronic health records using federated learning. <i>Risk Analysis</i> , 2023, 43, 2422-2449.	1.5	1
383	A Blockchain-based Decentralized Federated Learning Framework with Dual-Committees Consensus. , 2022, , .		0
384	Towards energy-efficient and time-sensitive task assignment in cross-silo federated learning. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2023, 35, 63-74.	2.7	0
385	Energy efficient federated learning in internet of vehicles: A game theoretic scheme. <i>Transactions on Emerging Telecommunications Technologies</i> , 2023, 34, .	2.6	1
386	Edge-Native Intelligence for 6G Communications Driven by Federated Learning: A Survey of Trends and Challenges. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2023, 7, 957-979.	3.4	14
387	TBFL: A Trusted Blockchain-based Federated Learning System. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
388	Decentralized federated learning with privacy-preserving for recommendation systems. Enterprise Information Systems, 2023, 17, .	3.3	0
389	An Incentive Mechanism for Vehicular Crowdsensing With Security Protection and Data Quality Assurance. IEEE Transactions on Vehicular Technology, 2023, 72, 9984-9998.	3.9	1
390	Training Node Screening in Decentralized Trusted Federated Learning. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 236-261.	0.2	0
391	FedAB: Truthful Federated Learning with Auction-based Combinatorial Multi-Armed Bandit. IEEE Internet of Things Journal, 2023, , 1-1.	5.5	0
392	VARF: An Incentive Mechanism of Cross-Silo Federated Learning in MEC. IEEE Internet of Things Journal, 2023, 10, 15115-15132.	5.5	2
393	A Contract Theory-based Incentive Mechanism for UAV-enabled VR-based Services in 5G and Beyond. IEEE Internet of Things Journal, 2023, , 1-1.	5.5	0
394	Blockchains for Artificial Intelligence of Things: A Comprehensive Survey. IEEE Internet of Things Journal, 2023, 10, 14483-14506.	5.5	3
396	Breaking the traditional: a survey of algorithmic mechanism design applied to economic and complex environments. Neural Computing and Applications, 0, , .	3.2	0
402	Maverick Matters: Client Contribution and Selection in Federated Learning. Lecture Notes in Computer Science, 2023, , 269-282.	1.0	0
409	BTIMFL: A Blockchain-Based Trust Incentive Mechanism in Federated Learning. Lecture Notes in Computer Science, 2023, , 175-185.	1.0	1
418	FLAIR: Defense against Model Poisoning Attack in Federated Learning. , 2023, , .		1
425	A Review of Client Selection Mechanisms in Heterogeneous Federated Learning. Lecture Notes in Computer Science, 2023, , 761-772.	1.0	0
428	Fast converging Federated Learning with Non-IID Data. , 2023, , .		0
429	Joint Participation Incentive and Network Pricing Design for Federated Learning. , 2023, , .		1
430	Truthful Incentive Mechanism for Federated Learning with Crowdsourced Data Labeling. , 2023, , .		1
435	Federated Learning Support for Cybersecurity: Fundamentals, Applications, and Opportunities. , 2023, , .		1
440	Reputation-Aware Opportunistic Budget Optimization for Auction-based Federation Learning. , 2023, , .		0
441	Hierarchical Blockchain-enabled Federated Learning with Reputation Management for Mobile Internet of Vehicles. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
443	Fair Federated Medical Image Segmentation via Client Contribution Estimation. , 2023, , .		6
451	Blockchain-Aided AI-Generated Content Services: Stackelberg Game-Based Content Caching Approach. , 2023, , .		0
452	FedWM: Federated Crowdsourcing Workforce Management Service for Productive Laziness. , 2023, , .		0
454	A Reputation-Based Learning Nodes Selection Algorithm for Decentralized Federated Learning. , 2023, , .		0
455	LTNI-FGML: Federated Graph Machine Learning on Long-Tailed and Non-IID Data via Logit Calibration. Lecture Notes in Computer Science, 2023, , 486-498.	1.0	0
461	Ownership Tokenization and Incentive Design for Learning-based User-Generated Content. , 2023, , .		0
462	Incentive Mechanism Design for Unbiased Federated Learning with Randomized Client Participation. , 2023, , .		0
464	Coalition Game for Reliable Vehicle Twin Migration in Vehicular Metaverses. , 2023, , .		0
469	Dynamic Model Reduction for Decentralized Learning in Heterogeneous Mobile Networks. , 2023, , .		0
471	Blockchain Based Trusted Distributed Machine Learning for Credit Scoring. , 2023, , .		0
472	A Hierarchical Blockchain Framework with Selectable Consensus Scope for Data Sharing in Internet of Vehicles. Communications in Computer and Information Science, 2024, , 325-338.	0.4	0
473	Role of Federated Learning for Internet of Vehicles: A Systematic Review. Communications in Computer and Information Science, 2024, , 128-139.	0.4	0
479	Continual Local Updates for Federated Learning with Enhanced Robustness to Link Noise. , 2023, , .		0
485	Blockchain combined with Federated Learning technology research. , 2023, , .		0
487	Long-term Incentive Mechanism for Federated Learning: A Dynamic Repeated Game Approach. , 2023, , .		0
489	A Hierarchical Asynchronous Federated Learning Privacy-Preserving Framework for IoVs. Communications in Computer and Information Science, 2024, , 99-113.	0.4	0
497	Cross-Silo Federated Learning Across Divergent Domains with Iterative Parameter Alignment. , 2023, , .		0
501	Contract Theory Based Incentive Mechanism for Clustered Federated Learning. , 2023, , .		0



#	ARTICLE	IF	CITATIONS
503	Reliable Federated Learning with Mobility-Aware Reputation Mechanism for Internet of Vehicles. , 2023, , .		0
504	A Review on the Applications of Blockchain-Based Smart Contracts in the Smart Grid. , 2024, , .		0
505	zkFDL: An efficient and privacy-preserving decentralized federated learning with zero knowledge proof. , 2024, , .		0
508	Fairness in federated learning. , 2024, , 143-160.		0
509	Safeguarding Privacy and Security in the Internet of Vehicles: Current and Emerging Strategies. Lecture Notes in Networks and Systems, 2024, , 21-34.	0.5	0
510	FRAIM: A Feature Importance-Aware Incentive Mechanism for Vertical Federated Learning. Lecture Notes in Computer Science, 2024, , 132-150.	1.0	0
511	An Uncertainty-Aware Auction Mechanism for Federated Learning. Lecture Notes in Computer Science, 2024, , 1-18.	1.0	0
517	Federated learning in healthcare applications. , 2024, , 157-196.		0