

CITATION REPORT

List of articles citing

Edge Computing: Vision and Challenges

DOI: 10.1109/jiot.2016.2579198

IEEE Internet of Things Journal, 2016, 3, 637-646.

Source: <https://exaly.com/paper-pdf/63427032/citation-report.pdf>

Version: 2024-04-23

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2214	Identity in the Internet-of-Things (IoT): New Challenges and Opportunities. 2016 , 18-26		15
2213	Computation offloading and resource allocation for low-power IoT edge devices. 2016 ,		58
2212	Firework: Big Data Sharing and Processing in Collaborative Edge Environment. 2016 ,		35
2211	Poster Abstract: Firework: Big Data Processing in Collaborative Edge Environment. 2016 ,		4
2210	Towards Semantic Reasoning on the Edge of IoT Systems. 2016 ,		4
2209	A New Era for Cities with Fog Computing. 2017 , 21, 54-67		72
2208	Challenges and Software Architecture for Fog Computing. 2017 , 21, 44-53		96
2207	Evolution of Cloud Operating System: From Technology to Ecosystem. 2017 , 32, 224-241		2
2206	Transferring Remote Ontologies to the Edge of Internet of Things Systems. 2017 , 538-552		2
2205	Workload-aware ASIC flow for lifetime improvement of multi-core IoT processors. 2017 ,		5
2204	AVE: Autonomous Vehicular Edge Computing Framework with ACO-Based Scheduling. 2017 , 66, 10660-10675	171	
2203	Location deployment of depots and resource relocation for connected car-sharing systems through mobile edge computing. 2017 , 13, 155014771771162		10
2202	Survey on Improving Data Utility in Differentially Private Sequential Data Publishing. 2017 , 1-1		40
2201	EdgeCloudSim: An environment for performance evaluation of Edge Computing systems. 2017 ,		72
2200	On Multi-Access Edge Computing: A Survey of the Emerging 5G Network Edge Cloud Architecture and Orchestration. 2017 , 19, 1657-1681		819
2199	Fog-Empowered Anomaly Detection in IoT Using Hyperellipsoidal Clustering. <i>IEEE Internet of Things Journal</i> , 2017 , 4, 1174-1184	10.7	64
2198	Service-Oriented Reference Architecture for Smart Cities. 2017 ,		26

2197	Massive-Scale Automation in Cyber-Physical Systems: Vision & Challenges. 2017,	19
2196	A Survey on Internet of Things: Architecture, Enabling Technologies, Security and Privacy, and Applications. <i>IEEE Internet of Things Journal</i> , 2017, 4, 1125-1142	10.7 1322
2195	Incentive mechanism for computation offloading using edge computing: A Stackelberg game approach. 2017, 129, 399-409	97
2194	Quantifying the Isolation Characteristics in Container Environments. 2017, 145-149	2
2193	Data-Driven Stream Processing at the Edge. 2017,	17
2192	Edge Mesh: A New Paradigm to Enable Distributed Intelligence in Internet of Things. 2017, 5, 16441-16458	102
2191	An open-source virtual set-top-box for softwarized networks. 2017,	
2190	A Layered Architecture for Erasure-Coded Consistent Distributed Storage. 2017,	3
2189	Towards collaborative storage scheduling using alternating direction method of multipliers for mobile edge cloud. 2017, 134, 29-43	11
2188	SDLB. 2017,	22
2187	Review of IoT applications in agro-industrial and environmental fields. 2017, 142, 283-297	223
2186	User-Space Network Tunneling Under a Mobile Platform: A Case Study for Android Environments. 2017, 135-143	1
2185	A Survey on Low Power Network Protocols for the Internet of Things and Wireless Sensor Networks. 2017,	7
2184	Survey on fog computing: architecture, key technologies, applications and open issues. 2017, 98, 27-42	415
2183	A Network Edge Monitoring Approach for Real-Time Data Streaming Applications. 2017, 293-303	2
2182	Performance evaluation of single-tier and two-tier cloudlet assisted applications. 2017,	14
2181	EdgeOS_H: A Home Operating System for Internet of Everything. 2017,	21
2180	Optical virtual network configuration method for tightly coupling big data and peripheral computer resources. 2017,	0

2179	A Workload Characterization for the Internet of Medical Things (IoMT). 2017,	6
2178	A simulative model of a 5G Telco Operator Network. 2017, 110, 344-351	3
2177	LAVEA: Latency-Aware Video Analytics on Edge Computing Platform. 2017,	11
2176	Distributed Deep Neural Networks Over the Cloud, the Edge and End Devices. 2017,	276
2175	MobiQoR: Pushing the Envelope of Mobile Edge Computing Via Quality-of-Result Optimization. 2017,	28
2174	Study on the accuracy of QoE monitoring for HTTP adaptive video streaming using VNF. 2017,	4
2173	OCCI-IoT: An API to Deploy and Operate an IoT Infrastructure. <i>IEEE Internet of Things Journal</i> , 2017, 4, 1341-1348	10.7 8
2172	Serving at the Edge: A Scalable IoT Architecture Based on Transparent Computing. 2017, 31, 96-105	276
2171	RAERA. 2017,	9
2170	Fog Computing and Edge Computing Architectures for Processing Data From Diabetes Devices Connected to the Medical Internet of Things. 2017, 11, 647-652	46
2169	QoS-oriented capacity planning for edge computing. 2017,	17
2168	Lessons and experiences of a DIY smart home. 2017,	6
2167	A smart building system integrated with an edge computing algorithm and IoT mesh networks. 2017,	5
2166	Edge computing enabled smart firefighting. 2017,	9
2165	Socially trusted collaborative edge computing in ultra dense networks. 2017,	37
2164	. 2017, 16, 5994-6009	367
2163	LED Smart Illumination with RFID Indoor Positioning. 2017,	1
2162	Position Paper. 2017,	11

2161	Online Learning for Offloading and Autoscaling in Energy Harvesting Mobile Edge Computing. 2017 , 3, 361-373	225
2160	Towards Distributed Software-Defined Environments. 2017 ,	4
2159	Blockchain Based Distributed Control System for Edge Computing. 2017 ,	114
2158	. 2017 , 66, 810-819	245
2157	Edge Computing Enabled Resilient Wireless Network Virtualization for Internet of Things. 2017 ,	11
2156	Leveraging edge analysis for Internet of Things based healthcare solutions. 2017 ,	4
2155	Error-Resilient Server Ecosystems for Edge and Cloud Datacenters. 2017 , 50, 78-81	1
2154	Edge computing for industrial IoT and the smart grid: Channel capacity for M2M communication over the power line. 2017 ,	11
2153	E2M2: Energy efficient mobility management in dense small cells with mobile edge computing. 2017 ,	9
2152	Security and Privacy in Fog Computing: Challenges. 2017 , 5, 19293-19304	302
2151	Towards a Dataflow Runtime Environment for Edge, Fog and In-Situ Computing. 2017 ,	2
2150	Predictive edge computing for time series of industrial IoT and large scale critical infrastructure based on open-source software analytic of big data. 2017 ,	17
2149	ThinGs In a Fog: System Illustration with Connected Vehicles. 2017 ,	7
2148	Optimal Dynamic Reserved Bandwidth Allocation for Cloud-Integrated Cyber-Physical Systems. 2017 , 5, 26224-26236	6
2147	Enabling Smart Urban Surveillance at The Edge. 2017 ,	29
2146	Demo abstract: MExR: Mobile edge resource management for mixed reality applications. 2017 ,	
2145	A Novel Fog Computing Enabled Temporal Data Reduction Scheme in IoT Systems. 2017 ,	23
2144	Pushing Data Privacy Control to the Edge in IoT Using Policy Enforcement Fog Module. 2017 ,	7

2143 On Global Resource Allocation in Clusters for Data Analytics. **2017**, 261-270

2142 LAVEA. **2017**, 91

2141 Efficient service handoff across edge servers via docker container migration. **2017**, 65

2140 Applications of edge computing in PloT. **2017**, 6

2139 Adaptive Batching Scheme for Real-Time Data Transfers in IoT Environment. **2017**, 3

2138 PowerAnalyzer: An energy-aware power monitor system aiming at energy-saving. **2017**, 1

2137 Energy-Efficient Autonomic Offloading in Mobile Edge Computing. **2017**, 5

2136 VU: video usefulness and its application in large-scale video surveillance systems. **2017**, 9

2135 RT-SANE. **2017**, 12

2134 Efficient Edge Storage Management Based on Near Real-Time Forecasts. **2017**, 11

2133 Fast and accurate object analysis at the edge for mobile augmented reality. **2017**, 3

2132 Semantically Rich, Oblivious Access Control Using ABAC for Secure Cloud Storage. **2017**, 10

2131 A Cognitive Policy Framework for Next-Generation Distributed Federated Systems: Concepts and Research Directions. **2017**, 15

2130 Integration of edge computing with cloud computing. **2017**, 3

2129 A vision-based driver assistance system using collaborative edge computing. **2017**, 4

2128 A data streaming performance evaluation using resource constrained edge device. **2017**, 4

2127 The Estack for smart web of things. **2017**, 3

2126 Energy-Aware Mobile Edge Computing for Low-Latency Visual Data Processing. **2017**, 14

2125	Quality of Service Channelling for Latency Sensitive Edge Applications. 2017,	11
2124	Distributed wireless sensing for fugitive methane leak detection. 2017,	7
2123	A Low Cost Wireless Acoustic Sensor for Ambient Assisted Living Systems. 2017, 7, 877	13
2122	The energy computer: A novel Internet-of-Things (IoT) device for improved energy productivity. 2017,	
2121	Information harvesting @Intelligent systems using cloudlet and IOT in cloud systems. 2017,	
2120	Edge Cloud Capacity Allocation for Low Delay Computing on Mobile Devices. 2017,	7
2119	Energy Efficient Resource Management and Task Scheduling for IoT Services in Edge Computing Paradigm. 2017,	16
2118	Audio analysis using edge computing for road side assistance systems. 2017,	
2117	A PSO model with VM migration and transmission power control for low Service Delay in the multiple cloudlets ECC scenario. 2017,	13
2116	AgileRabbit. 2017,	1
2115	Computation Peer Offloading in Mobile Edge Computing with Energy Budgets. 2017,	17
2114	First Mile in Crowdsourced Live Streaming. 2017,	7
2113	Container lifecycle management for edge nodes. 2017,	
2112	Enhancing AMBER alert using collaborative edges. 2017,	8
2111	Edgecourier. 2017,	10
2110	Fog Assisted Cloud Computing in Era of Big Data and Internet-of-Things: Systems, Architectures, and Applications. 2018, 367-394	33
2109	SSLB: Self-Similarity-Based Load Balancing for Large-Scale Fog Computing. 2018, 43, 7487-7498	21
2108	Building accountability into the Internet of Things: the IoT Databox model. 2018, 4, 39-55	43

2107	Flying Ad Hoc Network for Emergency Applications Connected to a Fog System. 2018 , 675-686		15
2106	Migration-Based Online CPSCN Big Data Analysis in Data Centers. 2018 , 6, 19270-19277		6
2105	Edge-Oriented Computing Paradigms. 2018 , 51, 1-34		91
2104	Implemented IoT-Based Self-Learning Home Management System (SHMS) for Singapore. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 2212-2219	10.7	55
2103	Smart City Surveillance at the Network Edge in the Era of IoT: Opportunities and Challenges. 2018 , 153-176		9
2102	Industrial IoT in 5G environment towards smart manufacturing. 2018 , 10, 10-19		186
2101	DITAS: Unleashing the Potential of Fog Computing to Improve Data-Intensive Applications. 2018 , 154-158		1
2100	Optimal Placement of Cloudlets for Access Delay Minimization in SDN-Based Internet of Things Networks. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 1334-1344	10.7	68
2099	Edge cognitive computing based smart healthcare system. 2018 , 86, 403-411		156
2098	Design of Distributed CyberPhysical Systems for Connected and Automated Vehicles With Implementing Methodologies. 2018 , 14, 4200-4211		43
2097	Dynamic Generation of Internet of Things Organizational Structures Through Evolutionary Computing. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 943-954	10.7	5
2096	Price-Based Distributed Offloading for Mobile-Edge Computing With Computation Capacity Constraints. 2018 , 7, 420-423		131
2095	A Novel Distribution Service Policy for Crowdsourced Live Streaming in Cloud Platform. 2018 , 15, 679-692		10
2094	. 2018 , 67, 1765-1781		54
2093	Smart Factory of Industry 4.0: Key Technologies, Application Case, and Challenges. 2018 , 6, 6505-6519		460
2092	. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 1727-1738	10.7	16
2091	Computation Offloading and Resource Allocation in Mixed Fog/Cloud Computing Systems With Min-Max Fairness Guarantee. 2018 , 66, 1594-1608		255
2090	On security challenges and open issues in Internet of Things. 2018 , 83, 326-337		105

2089	A Survey on the Edge Computing for the Internet of Things. 2018 , 6, 6900-6919	584
2088	Offloading Schemes in Mobile Edge Computing for Ultra-Reliable Low Latency Communications. 2018 , 6, 12825-12837	121
2087	Edge of Things: The Big Picture on the Integration of Edge, IoT and the Cloud in a Distributed Computing Environment. 2018 , 6, 1706-1717	204
2086	SherlockFog: Finding Opportunities for MPI Applications in Fog and Edge Computing. 2018 , 185-199	2
2085	IoT technologies for smart cities. 2018 , 7, 1-13	105
2084	Edge Computing-Based Intelligent Manhole Cover Management System for Smart Cities. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 1648-1656	10.7 42
2083	. 2018 , 6, 723-737	65
2082	Leakage resilient ID-based proxy re-encryption scheme for access control in fog computing. 2018 , 87, 679-685	12
2081	Fog-based storage technology to fight with cyber threat. 2018 , 83, 208-218	66
2080	Toward open manufacturing. 2018 , 118, 303-320	136
2079	A Survey of Deep Learning: Platforms, Applications and Emerging Research Trends. 2018 , 6, 24411-24432	265
2078	Reliable design for virtual network requests with location constraints in edge-of-things computing. 2018 , 2018,	5
2077	Smart-toy-edge-computing-oriented data exchange based on blockchain. 2018 , 87, 36-48	47
2076	A Reliable and Lightweight Trust Computing Mechanism for IoT Edge Devices Based on Multi-Source Feedback Information Fusion. 2018 , 6, 23626-23638	77
2075	Encyclopedia of Big Data Technologies. 2018 , 1-10	8
2074	. 2018 , 6, 23511-23528	156
2073	Data Security and Privacy-Preserving in Edge Computing Paradigm: Survey and Open Issues. 2018 , 6, 18209-18237	181
2072	Efficient Dynamic Service Maintenance for Edge Services. 2018 , 6, 8829-8840	5

2071	ICT enabling technologies for smart cities. 2018 ,		0
2070	Live migration on ARM-based micro-datacentres. 2018 ,		2
2069	The Internet of Robotic Things: A review of concept, added value and applications. 2018 , 15, 1729881418759424		24
2068	Dynamic adaptation to environmental changes of optical virtual networking and cloud computing systems for tightly coupling big data and peripheral computer resources. 2018 ,		
2067	Buffer Data-Driven Adaptation of Mobile Video Streaming Over Heterogeneous Wireless Networks. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 3430-3441	10.7	16
2066	Firework: Data Processing and Sharing for Hybrid Cloud-Edge Analytics. 2018 , 29, 2004-2017		43
2065	Outlet: Outsourcing Wearable Computing to the Ambient Mobile Computing Edge. 2018 , 6, 18408-18419		5
2064	. 2018 , 11, 249-261		145
2063	Fog Computing: A Taxonomy, Survey and Future Directions. 2018 , 103-130		362
2062	Edge-Centric Distributed Discovery and Access in the Internet of Things. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 425-438	10.7	33
2061	Securing Fog Computing for Internet of Things Applications: Challenges and Solutions. 2018 , 20, 601-628		333
2060	Potentials, trends, and prospects in edge technologies: Fog, cloudlet, mobile edge, and micro data centers. 2018 , 130, 94-120		164
2059	Network Design and the Brain. 2018 , 22, 64-78		15
2058	Optimal operator deployment and replication for elastic distributed data stream processing. 2018 , 30, e4334		26
2057	Privacy and Integrity Considerations in Hyperconnected Autonomous Vehicles. 2018 , 106, 160-170		38
2056	Multiobjective Optimization for Computation Offloading in Fog Computing. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 283-294	10.7	248
2055	Supporting smart construction with dependable edge computing infrastructures and applications. 2018 , 85, 182-192		47
2054	Video surveillance systems-current status and future trends. 2018 , 70, 736-753		44

2053	A distributed multi-level model with dynamic replacement for the storage of smart edge computing. 2018 , 83, 1-11	22
2052	Latency Modeling for Mobile Edge Computing Using LTE Measurements. 2018 ,	1
2051	Delay-Aware Resource Allocation for Data Analysis in Cloud-Edge System. 2018 ,	8
2050	A Novel Algorithm for NFV Chain Placement in Edge Computing Environments. 2018 ,	11
2049	Context-Aware Task Offloading for Multi-Access Edge Computing: Matching with Externalities. 2018 ,	12
2048	. 2018 ,	29
2047	Stochastic Resource Management for Mobile Edge Computing in 5G Networks. 2018 ,	0
2046	A Comparative Study of Cloud and Fog Computing with Reference to Internet of Things. 2018 ,	
2045	Efficient and Secure Communications in Smart Cities using Edge, Caching, and Blockchain. 2018 ,	6
2044	A Blockchain-Based Scheme for Secure Data Provenance in Wireless Sensor Networks. 2018 ,	4
2043	Microservice architecture in industrial software delivery on edge devices. 2018 ,	0
2042	Performance and Stability of Application Placement in Mobile Edge Computing System. 2018 ,	3
2041	Towards a Semantic Architecture for the Internet of Musical Things. 2018 ,	0
2040	TaSRD: Task Scheduling Relying on Resource and Dependency in Mobile Edge Computing. 2018 ,	2
2039	Distributed Computation Offloading and Power Allocation for Wireless Virtualization Aided Mobile Edge Computing. 2018 ,	1
2038	A Caching Strategy for Transparent Computing Server Side Based on Data Block Relevance. 2018 , 9, 42	0
2037	Dewing in Fog: Incentive-Aware Micro Computing Cluster Formation for Fog Computing. 2018 ,	2
2036	A Blockchain-Based Offloading Approach in Fog Computing Environment. 2018 ,	9

2035	Moving to the Edge-Cloud-of-Things: Recent Advances and Future Research Directions. 2018 , 7, 309	31
2034	Real-Time Index Authentication for Event-Oriented Surveillance Video Query using Blockchain. 2018 ,	20
2033	Panoptic, Privacy over Edge-Clouds. 2018 ,	1
2032	Peer-Assisted Content Delivery Network by Vehicular Micro Clouds. 2018 ,	5
2031	Energy-Efficient Hardware Caching Decision Using Fuzzy Logic in Mobile Edge Computing. 2018 ,	5
2030	Real-Time Data Processing Architecture for Multi-Robots Based on Differential Federated Learning. 2018 ,	9
2029	Practical Continuous Aggregation in Wireless Edge Environments. 2018 ,	3
2028	A Language for Online State Processing of Binary Sensors, Applied to Ambient Assisted Living. 2018 , 2, 1-26	2
2027	Detecting Vehicle Anomaly by Sensor Consistency: An Edge Computing Based Mechanism. 2018 ,	2
2026	Preliminary Study of Trusted Execution Environments on Heterogeneous Edge Platforms. 2018 ,	12
2025	Machine-Type Communication in the 5G Era: Massive and Ultrareliable Connectivity Forces of Evolution, Revolution, and Complementarity. 2018 , 519-542	2
2024	Multi-view Learning Based Edge Storage Management Strategy. 2018 ,	4
2023	Resource Management Challenges in the Next Generation Cloud based Systems: A Survey and Research Directions. 2018 ,	
2022	From Insight to Impact: Building a Sustainable Edge Computing Platform for Smart Homes. 2018 ,	6
2021	On the Tradeoff Between Data-Privacy and Utility for Data Publishing. 2018 ,	2
2020	Industrial Device Monitoring and Control System based on oneM2M for Edge Computing. 2018 ,	2
2019	Performance Evaluation of Edge Computing-Based Deep Learning Object Detection. 2018 ,	1
2018	Packet Scheduling for Multiple-Switch Software-Defined Networking in Edge Computing Environment. 2018 , 2018, 1-11	0

2017	Electric Motor Production 4.0 [Application Potentials of Industry 4.0 Technologies in the Manufacturing of Electric Motors. 2018,	13
2016	Interdomain I/O Optimization in Virtualized Sensor Networks. 2018, 18,	17
2015	Optimal Offloading and Resource Allocation in Mobile-Edge Computing with Inter-User Task Dependency. 2018,	6
2014	StreamSight: A Query-Driven Framework for Streaming Analytics in Edge Computing. 2018,	7
2013	X-Reality System Architecture for Industry 4.0 Processes. 2018, 2, 72	11
2012	Enabling Edge Intelligence for Activity Recognition in Smart Homes. 2018,	6
2011	Design and optimization of edge computing distributed neural processor for biomedical rehabilitation with sensor fusion. 2018,	4
2010	An Efficient Availability Guaranteed Deployment Scheme for IoT Service Chains over Fog-Core Cloud Networks. 2018, 18,	14
2009	. 2018,	1
2008	Microservice Patterns for the Life Cycle of Industrial Edge Software. 2018,	2
2007	Graph-Based Computing Resource Allocation for Mobile Blockchain. 2018,	6
2006	An IoT-Aware Architectural Model for Smart Habitats. 2018,	3
2005	A WiFi-Direct Based Local Communication System. 2018,	6
2004	A High-Performance VLSI Architecture of the Present Cipher and its Implementations for SoCs. 2018,	3
2003	Offloading Positioning onto Network Edge. 2018, 2018, 1-13	4
2002	Edge Computing architecture to support Real Time Analytic applications : A State-of-the-art within the application area of Smart Factory and Industry 4.0. 2018,	11
2001	LL-MEC: Enabling Low Latency Edge Applications. 2018,	12
2000	EdgeBench: Benchmarking Edge Computing Platforms. 2018,	27

1999	LPDA-EC: A Lightweight Privacy-Preserving Data Aggregation Scheme for Edge Computing. 2018,	10
1998	Service Placement in Fog Computing Environment. 2018,	5
1997	A Game-theoretic Framework for Revenue Sharing in Edge-Cloud Computing System. 2018,	5
1996	CICO: A Credit-Based Incentive Mechanism for COoperative Fog Computing Paradigms. 2018,	3
1995	QoS-Aware Matching of Edge Computing Services to Internet of Things. 2018,	11
1994	A Survey: Integration of IoT and Fog Computing. 2018,	5
1993	Task Allocation for Multi-APs with Mobile Edge Computing. 2018,	3
1992	Implementing a Mobile Identity Application in a Ubiquitous Computing Environment. 2018,	0
1991	Towards In-Network Industrial Feedback Control. 2018,	14
1990	Multichoice Games for Optimizing Task Assignment in Edge Computing. 2018,	5
1989	Minimum Completion Time Offloading Algorithm for Mobile Edge Computing. 2018,	0
1988	Non-Intrusive Activity Detection and Prediction in Smart Residential Spaces. 2018,	1
1987	Impact of Edge Computing Paradigm on Energy Consumption in IoT. 2018, 51, 162-167	33
1986	Approach for a simulation-based and event-driven production planning and control in decentralized manufacturing execution systems. 2018, 72, 1351-1356	14
1985	Design Considerations and Architecture for Cooperative Smart Factory: MAPE/BD Approach. 2018, 26, 1094-1106	8
1984	Low-Complexity Compressed Analysis in Eigenspace with Limited Labeled Data for Real-Time Electrocardiography Telemonitoring. 2018,	2
1983	Delay-Optimal Computation Offloading for Computation-Constrained Mobile Edge Networks. 2018	3
1982	Energy Saving Strategy for Task Migration Based on Genetic Algorithm. 2018,	2

1981 Deployment of Batch Mode Scientific Workflow on a Computation-as-a-Service Private Cloud. **2018,**

1980 Derandomized Distributed Multi-resource Allocation with Little Communication Overhead. **2018,**

1979 Deep Square Similarity Learning for Person Re-Identification in the Edge Computing System. **2018,**

1978 An Edge-Focused Model for Distributed Streaming Data Applications. **2018,**

3

1977 . **2018,**

1976 Reduction of Communication Cost for Edge-Heavy Sensor using Divided CNN. **2018,**

2

1975 A Thread-Saving Schedule with Graph Analysis for Parallel Deep Learning Applications on Embedded Systems. **2018,**

1

1974 Edge Consensus Computing for Heterogeneous Data Sets. **2018,**

1973 Numerical computing on the web: benchmarking for the future. **2018,**

7

1972 Hypergraph clustering model-based association analysis of DDOS attacks in fog computing intrusion detection system. **2018, 2018,**

20

1971 Wearable Hardware Design for the Internet of Medical Things (IoMT). **2018, 18,**

62

1970 Context Interoperability for IoT Through an Edge-Centric Context Sharing Architecture. **2018,**

2

1969 CHAINMAIL: Distributed Coordination for Multi-task k-Assignment Using Autonomous Mobile IoT Devices. **2018,**

2

1968 Cloud-Edge Collaboration Framework for IoT data analytics. **2018,**

6

1967 Smart Surveillance as an Edge Network Service: From Harr-Cascade, SVM to a Lightweight CNN. **2018,**

28

1966 Real-World Applications and Research Challenges of Fog/Edge Services. **2018,**

1965 A Resource Identity Management Strategy for Combined Fog-to-Cloud Systems. **2018,**

1

1964 Smart Forests: fire detection service. **2018,**

4

1963	. 2018, 1-1	14
1962	. 2018,	2
1961	DARE: Dynamic Adaptive Mobile Augmented Reality with Edge Computing. 2018,	21
1960	Towards Privacy Preserving IoT Environments: A Survey. 2018, 2018, 1-15	35
1959	. 2018,	6
1958	Enabling deep learning at the IoT edge. 2018,	13
1957	Evaluation and Enhancement of the EdgeCloudSim using Poisson Interarrival time and Load capacity. 2018,	1
1956	Service Deployment for Latency Sensitive Applications in Mobile Edge Computing. 2018,	5
1955	Proactive Video Push for Optimizing Bandwidth Consumption in Hybrid CDN-P2P VoD Systems. 2018,	14
1954	A Case for Web Service Bandwidth Reduction on Mobile Devices with Edge-Hosted Personal Services. 2018,	5
1953	Lightweight and Secure Certificateless Multi-receiver Encryption based on ECC. 2018, 26, 612-624	4
1952	IoT Applications in Fog and Edge Computing: Where Are We and Where Are We Going?. 2018,	8
1951	Using Osmotic Services Composition for Dynamic Load Balancing of Smart City Applications. 2018,	0
1950	From Cell Towers to Smart Street Lamps: Placing Cloudlets on Existing Urban Infrastructures. 2018,	5
1949	Collective Abstractions and Platforms for Large-Scale Self-Adaptive IoT. 2018,	5
1948	ShareLatex on the Edge. 2018,	3
1947	CamThings: IoT Camera with Energy-Efficient Communication by Edge Computing based on Deep Learning. 2018,	4
1946	. 2018,	4

1945	An Edge Computing Based Smart Healthcare Framework for Resource Management. 2018 , 18,	91
1944	Learning Multi-paths for Edge Networks in a Stochastic Approximation Approach. 2018 ,	1
1943	Time Constrained Service-Aware Migration of Virtualized Services for Mobile Edge Computing. 2018 ,	3
1942	A Succinct Provable Data Possession Mechanism for Lightweight Clients in Network Computing. 2018 ,	
1941	A Low-Cost Edge Server Placement Strategy in Wireless Metropolitan Area Networks. 2018 ,	7
1940	Coordination Model with Reinforcement Learning for Ensuring Reliable On-Demand Services in Collective Adaptive Systems. 2018 , 257-273	5
1939	An Envy-Free Auction Mechanism for Resource Allocation in Edge Computing Systems. 2018 ,	24
1938	A UCB1-Based Online Job Dispatcher for Heterogeneous Mobile Edge Computing System. 2018 ,	
1937	Hierarchical edge computing. 2018 ,	1
1936	FastPay: A Secure Fast Payment Method for Edge-IoT Platforms using Blockchain. 2018 ,	9
1935	CAVBench: A Benchmark Suite for Connected and Autonomous Vehicles. 2018 ,	20
1934	Urban Pollution Monitoring Based on Mobile Crowd Sensing: An Osmotic Computing Approach. 2018 ,	1
1933	A Novel Architecture for Automatic Document Classification for Effective Security in Edge Computing Environments. 2018 ,	3
1932	Performace Oriented Edge Computing of Geospatial Information with 3D Scenery. 2018 ,	1
1931	A Beacon-assisted direction-aware scanning scheme for 802.11-based discovery in Fog-to-Cloud systems. 2018 ,	2
1930	A Survey on Industrial Internet of Things: A Cyber-Physical Systems Perspective.. 2018 , 6,	203
1929	Edge computing for space applications: Field programmable gate array-based implementation of multiscale probability distribution functions. 2018 , 89, 125005	9
1928	Privacy-Preserving Task Allocation for Edge Computing Enhanced Mobile Crowdsensing. 2018 , 431-446	3

1927	Dependency Mining for Service Resilience at the Edge. 2018,	17
1926	Cooperative-Competitive Task Allocation in Edge Computing for Delay-Sensitive Social Sensing. 2018,	30
1925	A Deep Neural Network Compression Algorithm Based on Knowledge Transfer for Edge Device. 2018,	1
1924	DyCREM: Dynamic Credit Risk Management Using Edge-Based Blockchain. 2018,	2
1923	EdgeBox: Live Edge Video Analytics for Near Real-Time Event Detection. 2018,	7
1922	A Heuristic Algorithm Based on Resource Requirements Forecasting for Server Placement in Edge Computing. 2018,	12
1921	Demo: ThingsMigrate - Platform-Independent Live-Migration of JavaScript Processes. 2018,	1
1920	EveryLite: A Lightweight Scripting Language for Micro Tasks in IoT Systems. 2018,	6
1919	How Edge Computing and Initial Congestion Window Affect Latency of Web-Based Services: Early Experiences with Baidu?. 2018,	3
1918	Enabling Semantics in oneM2M Service Delivery Platform. 2018,	
1917	Application-Aware IoT Camera Virtualization for Video Analytics Edge Computing. 2018,	14
1916	An Offloading Approach in Fog Computing Environment. 2018,	4
1915	Job Scheduling with Adaptable Computing Levels for Edge Computing. 2018, 287-296	0
1914	Towards Secure Network Computing Services for Lightweight Clients Using Blockchain. 2018, 2018, 1-12	37
1913	. 2018,	2
1912	Information-Centric Network-Based Vehicular Communications: Overview and Research Opportunities. 2018, 18,	29
1911	A Survey on Computation Offloading for Mobile Edge Computing Information. 2018,	14
1910	Towards Ubiquitous Intelligent Computing: Heterogeneous Distributed Deep Neural Networks. 2018, 1-1	6

1909	. 2018 , 6, 61994-62017	40
1908	Information-Centric Networking With Edge Computing for IoT: Research Challenges and Future Directions. 2018 , 6, 73465-73488	33
1907	Cloud, Edge, or Both? Towards Decision Support for Designing IoT Applications. 2018 ,	12
1906	Sensing Trees in Smart Cities with Open-Design Hardware. 2018 ,	
1905	IoT-Centric Edge Computing for Context-Aware Smart Environments. 2018 ,	
1904	Dynamic Service Request Scheduling for Mobile Edge Computing Systems. 2018 , 2018, 1-10	2
1903	Requirements for Energy Efficient Edge Computing: A Survey. 2018 , 3-15	6
1902	QueryGuard: Privacy-Preserving Latency-Aware Query Optimization for Edge Computing. 2018 ,	7
1901	Reconfigurable Security: Edge-Computing-Based Framework for IoT. 2018 , 32, 92-99	125
1900	MirageOS Unikernel with Network Acceleration for IoT Cloud Environments. 2018 ,	1
1899	A Multidomain Standards-Based Fog Computing Architecture for Smart Cities. 2018 , 2018, 1-14	4
1898	Live Demonstration. 2018 ,	
1897	IoT-based smart homes: A review of system architecture, software, communications, privacy and security. 2018 , 1-2, 81-98	100
1896	The Internet of Things, Fog and Cloud continuum: Integration and challenges. 2018 , 3-4, 134-155	99
1895	The future of waste management in smart and sustainable cities: A review and concept paper. 2018 , 81, 177-195	167
1894	An Edge Network Orchestrator for Mobile Augmented Reality. 2018 ,	55
1893	Joint Service Caching and Task Offloading for Mobile Edge Computing in Dense Networks. 2018 ,	222
1892	Enterprise Scale Privacy Aware Occupancy Sensing. 2018 ,	1

1891	Smart Classrooms Aided by Deep Neural Networks Inference on Mobile Devices. 2018,	5
1890	DeepThings: Distributed Adaptive Deep Learning Inference on Resource-Constrained IoT Edge Clusters. 2018, 37, 2348-2359	120
1889	Developing Agent-Based Smart Objects for IoT Edge Computing: Mobile Crowdsensing Use Case. 2018, 235-247	4
1888	Performance Evaluation of Service Functions Chain Placement Algorithms in Edge Cloud. 2018,	4
1887	A Survey of Blockchain: Techniques, Applications, and Challenges. 2018,	47
1886	An Energy-Aware Edge Server Placement Algorithm in Mobile Edge Computing. 2018,	83
1885	Mobile Resource Aware Scheduling for Mobile Edge Environment. 2018,	1
1884	Automatic Matching Method for Ocean Observation Elements Based on Edge Computing. 2018,	1
1883	Analyzing the availability and performance of an e-health system integrated with edge, fog and cloud infrastructures. 2018, 7,	30
1882	LiReD: A Light-Weight Real-Time Fault Detection System for Edge Computing Using LSTM Recurrent Neural Networks. 2018, 18,	59
1881	SDN Controller Placement With Delay-Overhead Balancing in Wireless Edge Networks. 2018, 15, 1446-1459	27
1880	Energy balancing between computation and communication in IoT edge devices using data offloading schemes. 2018,	2
1879	SpatioTemporal Edge Service Placement: A Bandit Learning Approach. 2018, 17, 8388-8401	46
1878	Supporting Augmented Reality. 2018,	3
1877	Semi-Autonomous Industrial Robotic Inspection: Remote Methane Detection in Oilfield. 2018,	3
1876	Cross-Domain Based Data Sharing Scheme in Cooperative Edge Computing. 2018,	12
1875	SeCEE: Edge Environment Data Sharing and Processing Framework with Service Composition. 2018, 33-47	
1874	Cloud, Fog, and Edge Computing: A Software Engineering Perspective. 2018,	3

1873	Adaptive Computing Optimization in Software-Defined Network-Based Industrial Internet of Things with Fog Computing. 2018 , 18,	25
1872	A Prototype for Dynamic Provisioning of QoS-oriented Virtualized Network Functions in the Internet of Things. 2018 ,	1
1871	An Agent Based Model for Health Surveillance Systems and Early Biological Threat Detection. 2018 ,	1
1870	PASHE: Privacy Aware Scheduling in a Heterogeneous Fog Environment. 2018 ,	9
1869	Cost Efficient Scheduling for Delay-Sensitive Tasks in Edge Computing System. 2018 ,	23
1868	Perceptual Hashing of Cyclostationary Signal with Sparse Coding. 2018 ,	
1867	High Stability Gain Structure and Filter Realization with less than 50 ppm/°C Temperature Variation with Ultra-low Power Consumption using Switched-capacitor and Sub-threshold Biasing. 2018 ,	4
1866	Data-driven perspectives for energy efficient operations in railway systems: Current practices and future opportunities. 2018 , 95, 679-697	29
1865	On Delay-Sensitive Healthcare Data Analytics at the Network Edge Based on Deep Learning. 2018 ,	11
1864	A Distributed and Context-Aware Task Assignment Mechanism for Collaborative Mobile Edge Computing. 2018 , 18,	33
1863	Edge Intelligence: Challenges and Opportunities of Near-Sensor Machine Learning Applications. 2018 ,	26
1862	EdgeMQ: Towards a Message Queuing Processing System for Cloud-Edge Computing: (Use Cases on Water and Forest Monitoring). 2018 ,	0
1861	Distribution of Semantic Reasoning on the Edge of Internet of Things. 2018 ,	13
1860	. 2018 ,	12
1859	Mesh-IoT Based System For Large-Scale Environment. 2018 ,	1
1858	Asynchronous Variance Reduced SGD with Momentum Tuning in Edge Computing. 2018 ,	0
1857	An anonymous access authentication scheme for vehicular ad hoc networks under edge computing. 2018 , 14, 155014771875658	9
1856	A D2D offloading approach to efficient mobile edge resource pooling. 2018 ,	6

1855	A Novel PMU Fog Based Early Anomaly Detection for an Efficient Wide Area PMU Network. 2018,	5
1854	Practical Criteria for Scheduling CPU-Bound Jobs in Mobile Devices at the Edge. 2018,	2
1853	Democratization of runtime verification for internet of things. 2018, 68, 570-580	6
1852	An efficient edge sparse coding approach to ultra-short-term household electricity demand estimation. 2018, 13, 1586-1594	
1851	Multi-agent cognitive architecture-enabled IoT applications of mobile edge computing. 2018, 73, 487-497	8
1850	Edge Enhanced Deep Learning System for Large-Scale Video Stream Analytics. 2018,	24
1849	Breaking Bandwidth Limitation for Mission-Critical IoT Using Semisequential Multiple Relays. <i>IEEE Internet of Things Journal</i> , 2018, 5, 3316-3329	10.7 5
1848	Towards low-energy, low-cost and high-performance IoT-based operation of interconnected systems. 2018,	1
1847	Saving Energy on the Edge: In-Memory Caching for Multi-Tier Heterogeneous Networks. 2018, 56, 102-107	55
1846	IoT edge computing in quick service restaurants. 2018,	1
1845	A Taxonomy for Management and Optimization of Multiple Resources in Edge Computing. 2018, 2018, 1-23	58
1844	DHEA: A dynamic hierarchical edge architecture for a participatory approach toward IoT evolution. 2018,	1
1843	Exploring analytical models to maintain quality-of-service for resource management using a proactive approach in highly mobile environments. 2018,	
1842	Processing Optimization of Typed Resources with Synchronized Storage and Computation Adaptation in Fog Computing. 2018, 2018, 1-13	9
1841	Cloud vs edge: Who serves the Internet-of-Things better?. 2018, 1, e66	18
1840	Survey of advances and challenges in intelligent autonomy for distributed cyber-physical systems. 2018, 3, 75-82	31
1839	Fog Computing: An Overview of Big IoT Data Analytics. 2018, 2018, 1-22	73
1838	A Research Perspective on Fog Computing. 2018, 198-210	17

1837	A Robust Retail POS System Based on Blockchain and Edge Computing. 2018 , 99-110	4
1836	A Multi-Cloudlet Infrastructure for Future Smart Cities. 2018 ,	7
1835	Edge-CoCaCo: Toward Joint Optimization of Computation, Caching, and Communication on Edge Cloud. 2018 , 25, 21-27	105
1834	Simulating Large-Scale Social Sensing Based Edge Computing Systems with Heterogeneous Network Configurations. 2018 ,	3
1833	Delay-Sensitive Video Computing in the Cloud. 2018 , 14, 1-29	12
1832	Method of Resource Estimation Based on QoS in Edge Computing. 2018 , 2018, 1-9	11
1831	Pairing based anonymous and secure key agreement protocol for smart grid edge computing infrastructure. 2018 , 88, 491-500	52
1830	Survey on Multi-Access Edge Computing for Internet of Things Realization. 2018 , 20, 2961-2991	331
1829	. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 4212-4222	10.7 33
1828	Computation Peer Offloading for Energy-Constrained Mobile Edge Computing in Small-Cell Networks. 2018 , 26, 1619-1632	170
1827	. 2018 ,	46
1826	A Data Stream Processing Optimisation Framework for Edge Computing Applications. 2018 ,	14
1825	Sensing, communication and security planes: A new challenge for a smart city system design. 2018 , 144, 163-200	51
1824	Ultra-Low Latency Service Provision in Edge Computing. 2018 ,	4
1823	An Edge Computing Architecture in the Internet of Things. 2018 ,	12
1822	Study on Distributed Cloud Computing Environment with Composition Model and Graph Model. 2018 ,	
1821	Design and Implementation of Deep Neural Network for Edge Computing. 2018 , E101.D, 1982-1996	6
1820	Composing network service chains at the edge: A Resilient and adaptive software-defined approach. 2018 , 29, e3489	4

1819	Making Big Data Open in Collaborative Edges: A Blockchain-Based Framework with Reduced Resource Requirements. 2018,	12
1818	Mobile Big Data Based Network Intelligence. <i>IEEE Internet of Things Journal</i> , 2018, 5, 4365-4379	10.7 10
1817	Characterizing User Behaviors in Mobile Personal Livecast. 2018, 14, 1-24	10
1816	Alife in the Clouds: A Short Review of Applications of Artificial Life to Cloud Computing and Back. 2018, 4,	
1815	. <i>IEEE Internet of Things Journal</i> , 2018, 5, 3580-3593	10.7 19
1814	A Study of Robotic Cooperation in Cloud Robotics: Architecture and Challenges. 2018, 6, 36662-36682	30
1813	Neuromodulated Synaptic Plasticity on the SpiNNaker Neuromorphic System. 2018, 12, 105	14
1812	A new methodology for condition monitoring based on perceptual hashing. 2018,	1
1811	A Security Framework for Fog Networks Based on Role-Based Access Control and Trust Models. 2018, 168-180	5
1810	Cyber-secure decentralized energy management for IoT-enabled active distribution networks. 2018 , 6, 900-917	32
1809	Migration towards digital manufacturing automation [An assessment approach. 2018,	8
1808	Discrimination on offloading performance in two-class mobile edge computing systems. 2018,	
1807	SoC-Based Edge Computing Gateway in the Context of the Internet of Multimedia Things: Experimental Platform. 2018, 8, 1	36
1806	A Survey on Data Storage and Information Discovery in the WSAWs-Based Edge Computing Systems. 2018, 18,	10
1805	Drawing Inspiration from Human Brain Networks: Construction of Interconnected Virtual Networks. 2018, 18,	4
1804	Edge-Based Efficient Search over Encrypted Data Mobile Cloud Storage. 2018, 18,	19
1803	LiteNet: Lightweight Neural Network for Detecting Arrhythmias at Resource-Constrained Mobile Devices. 2018, 18,	23
1802	Cooperative Computing System for Heavy-Computation and Low-Latency Processing in Wireless Sensor Networks. 2018, 18,	5

1801	Big data and extreme-scale computing: Pathways to Convergence-Toward a shaping strategy for a future software and data ecosystem for scientific inquiry. 2018 , 32, 435-479	62
1800	A multi-source feedback based trust calculation mechanism for edge computing. 2018 ,	13
1799	A Stackelberg Game Model for Dynamic Resource Scheduling in Edge Computing with Cooperative Cloudlets. 2018 ,	1
1798	Anomaly detection for Smart City applications over 5G low power wide area networks. 2018 ,	23
1797	Distributed Trade-Based Edge Device Management in Multi-Gateway IoT. 2018 , 2, 1-25	4
1796	A real IoT device deployment for e-Health applications under lightweight communication protocols, activity classifier and edge data filtering. 2018 , 128, 60-73	28
1795	On dependability of smart applications within edge-centric and fog computing paradigms. 2018 ,	6
1794	. 2018 , 14, 4995-5004	29
1793	FASTBEE: A Fast and Self-Adaptive Clustering Algorithm Towards to Edge Computing. 2018 ,	1
1792	BinaryEye: A 20 kfps Streaming Camera System on FPGA with Real-Time On-Device Image Recognition Using Binary Neural Networks. 2018 ,	10
1791	Patient Facial Emotion Recognition and Sentiment Analysis Using Secure Cloud With Hardware Acceleration. 2018 , 61-89	6
1790	. 2018 , 6, 47980-48009	222
1789	AL-FEC Application on NGMN-Edge Computing Integrated Systems. 2018 ,	1
1788	Evaluation of Predictive-Maintenance-as-a-Service Business Models in the Internet of Things. 2018 ,	2
1787	An Adaptive Offloading Decision Scheme in Two-Class Mobile Edge Computing Systems. 2018 ,	
1786	Demo Abstract: Real-Time Heterogeneous Edge Computing System for Social Sensing Applications. 2018 ,	0
1785	Mobile Privacy Protection Enhanced with Multi-access Edge Computing. 2018 ,	14
1784	Real-Time Human Objects Tracking for Smart Surveillance at the Edge. 2018 ,	33

1783	. 2018, 20, 2562-2577	33
1782	Introducing the new paradigm of Social Dispersed Computing: Applications, Technologies and Challenges. 2018, 91, 83-102	36
1781	Investigating blockchain as a data management tool for IoT devices in smart city initiatives. 2018,	11
1780	Towards statistical machine learning for edge analytics in large scale networks: Real-time Gaussian function generation with generic DSP. 2018,	5
1779	Evolving IoT networks by the confluence of MEC and LP-WAN paradigms. 2018, 88, 199-208	20
1778	Artificial intelligence framework for smart city microgrids: State of the art, challenges, and opportunities. 2018,	32
1777	Optimized resource allocation in edge-cloud environment. 2018,	2
1776	. 2018,	5
1775	On the efficiency of lightweight content placement heuristics for cache-enabled networks. 2018,	1
1774	An efficient module deployment algorithm in edge computing. 2018,	2
1773	The Droplet—A new personal device to enable fog computing. 2018,	1
1772	Adaptive and Cost-Effective Collection of High-Quality Data for Critical Infrastructure and Emergency Management in Smart Cities—Framework and Challenges. 2018, 10, 1-6	4
1771	. 2018, 6, 33727-33739	22
1770	Augmenting computing capabilities at the edge by jointly exploiting mobile devices: A survey. 2018 , 88, 644-662	17
1769	Achieving Scalable Access Control Over Encrypted Data for Edge Computing Networks. 2018, 6, 30049-30059	18
1768	Efficient support vector machines implementation on Intel/Movidius Myriad 2. 2018,	5
1767	An Edge-Based Architecture to Support Efficient Applications for Healthcare Industry 4.0. 2019, 15, 481-489	174
1766	An advanced decision model enabling two-way initiative offloading in edge computing. 2019, 90, 39-48	11

1765	. 2019 , 12, 698-711	26
1764	Enabling technologies for fog computing in healthcare IoT systems. 2019 , 90, 62-78	274
1763	An Efficient Message-Authentication Scheme Based on Edge Computing for Vehicular Ad Hoc Networks. 2019 , 20, 1621-1632	86
1762	Multi-access edge computing aided mobility for privacy protection in Internet of Things. 2019 , 101, 729-742	14
1761	Differential privacyBased location privacy enhancing in edge computing. 2019 , 31, e4735	8
1760	Blockchain for Large-Scale Internet of Things Data Storage and Protection. 2019 , 12, 762-771	119
1759	Edge server placement in mobile edge computing. 2019 , 127, 160-168	182
1758	A smart caching mechanism for mobile multimedia in information centric networking with edge computing. 2019 , 91, 590-600	26
1757	On the Integration of Information Centric Networking and Fog Computing for Smart Home Services. 2019 , 75-93	7
1756	. 2019 , 29, 2112-2125	8
1755	Averaged one-dependence estimators on edge devices for smart pregnancy data analysis. 2019 , 77, 435-444	8
1754	. 2019 ,	0
1753	HetMEC: Latency-Optimal Task Assignment and Resource Allocation for Heterogeneous Multi-Layer Mobile Edge Computing. 2019 , 18, 4942-4956	38
1752	Synergizing Roadway Infrastructure Investment with Digital Infrastructure for Infrastructure-Based Connected Vehicle Applications: Review of Current Status and Future Directions. 2019 , 25, 03119001	9
1751	Overload Protection of Cloud-IoT Applications by Feedback Control of Smart Devices. 2019 ,	1
1750	Software-Defined Networking Enhanced Edge Computing: A Network-Centric Survey. 2019 , 107, 1500-1519	20
1749	Privacy-Preserving Compressive Model for Enhanced Deep-Learning-Based Service Provision System in Edge Computing. 2019 , 7, 92921-92937	4
1748	On-Device Deep Learning Inference for Efficient Activity Data Collection. 2019 , 19,	4

1747	A Novel Edge Analytics Assisted Motor Movement Recognition Framework Using Multi-Stage Convo-GRU Model. 2019 , 1	
1746	Edge Computing [Scanning the Issue]. 2019 , 107, 1474-1481	45
1745	Query-Driven Descriptive Analytics for IoT and Edge Computing. 2019 ,	8
1744	A distributed, proactive intelligent scheme for securing quality in large scale data processing. 2019 , 101, 1687-1710	7
1743	A Commodity SBC-Edge Cluster for Smart Cities. 2019 ,	1
1742	Health Monitoring with Low Power IoT Devices using Anomaly Detection Algorithm. 2019 ,	5
1741	Multidimensional behavioral profiling of internet-of-things in edge networks. 2019 ,	6
1740	Hardware implementation of RRAM based binarized neural networks. 2019 , 7, 081105	7
1739	Assignment of IoT Nodes to Edge Computing Devices in Internet of Things. 2019 ,	0
1738	Designing Future Precision Agriculture: Detection of Seeds Germination Using Artificial Intelligence on a Low-Power Embedded System. 2019 , 19, 11573-11582	26
1737	Aspect Based Hierarchical System: A Fine-grained Sentiment Analysis System in Edge Computing. 2019 ,	1
1736	Elastic Regression-Tree Learning in a Heterogeneous Computing Environment. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 8826-8834	10.7 1
1735	Offloading and system resource allocation optimization in TDMA based wireless powered mobile edge computing. 2019 , 98, 221-230	7
1734	Search Engine for the Internet of Things: Lessons From Web Search, Vision, and Opportunities. 2019 , 7, 104673-104691	16
1733	Human-Cyber-Physical Systems (HCPSs) in the Context of New-Generation Intelligent Manufacturing. 2019 , 5, 624-636	109
1732	Towards secure 5G networks: A Survey. 2019 , 162, 106871	36
1731	Transparent Access to 5G Edge Computing Services. 2019 ,	2
1730	. 2019 ,	

1729	Cognitive facility management—Definition, system architecture, and example scenario. 2019 , 107, 102922	15
1728	. 2019 , 107, 1482-1499	47
1727	eMES: Easing Maintenance of Entity Services in Service Oriented Software-Defined Internet of Things. 2019 ,	1
1726	Edge computing in smart health care systems: Review, challenges, and research directions. 2019 , e3710	26
1725	Modeling Data, Information and Knowledge for Security Protection of Hybrid IoT and Edge Resources. 2019 , 7, 99161-99176	17
1724	Design of a Reconfigurable Multi-Sensor Testbed for Autonomous Vehicles and Ground Robots. 2019 ,	6
1723	Age & Gender Classifier for Edge Computing. 2019 ,	3
1722	LiRUL: A Lightweight LSTM Based Model for Remaining Useful Life Estimation at the Edge. 2019 ,	3
1721	On Cost-Driven Computation Offloading in the Edge: A New Model Approach. 2019 ,	0
1720	Energy Management for Smart Homes—State of the Art. 2019 , 9, 3459	5
1719	Heterogeneous LoRa-Based Wireless Multimedia Sensor Network Multiprocessor Platform for Environmental Monitoring. 2019 , 19,	7
1718	A DOA-Based Factor Graph Technique for 3D Multi-Target Geolocation. 2019 , 7, 94630-94641	6
1717	Deep Learning With Edge Computing: A Review. 2019 , 107, 1655-1674	298
1716	A Mobile Edge Computing Device to Support Data Collecting and Processing from IoT. 2019 ,	2
1715	Single-Board-Computer Clusters for Cloudlet Computing in Internet of Things. 2019 , 19,	6
1714	A Heterogeneous IoT Data Analysis Framework with Collaboration of Edge-Cloud Computing: Focusing on Indoor PM10 and PM2.5 Status Prediction. 2019 , 19,	13
1713	EDCrammer: An Efficient Caching Rate-Control Algorithm for Streaming Data on Resource-Limited Edge Nodes. 2019 , 9, 2560	2
1712	SAHCI: Scheduling Approach for Heterogeneous Content-Centric IoT Applications. 2019 , 7, 80342-80349	6

1711	A Utility-Based Optimization Framework for Edge Service Entity Caching. 2019 , 30, 2384-2395	14
1710	Federated learning-based computation offloading optimization in edge computing-supported internet of things. 2019 ,	1
1709	Edge Computing Based Traffic Analysis System Using Broad Learning. 2019 , 238-251	1
1708	. 2019 , 7, 100283-100295	13
1707	Resource Allocation for Ultra-Low Latency Virtual Network Services in Hierarchical 5G Network. 2019 ,	5
1706	Queec. 2019 ,	2
1705	Cloud Based IoT Network Virtualization for Supporting Dynamic Connectivity among Connected Devices. 2019 , 8, 742	10
1704	A Two-Stage Household Electricity Demand Estimation Approach Based on Edge Deep Sparse Coding. 2019 , 10, 224	5
1703	Bibliometric Analysis on Smart Cities Research. 2019 , 11, 3606	83
1702	Offloading for Edge Computing in Low Power Wide Area Networks With Energy Harvesting. 2019 , 7, 78919-78929	5
1701	Computation Offloading Toward Edge Computing. 2019 , 107, 1584-1607	127
1700	A Comprehensive View of Different Computing Techniques - A Systematic Detailed Literature Review. 2019 ,	2
1699	Peer-assisted content delivery network by vehicular clouds: Algorithm and evaluation. 2019 , 2, e103	1
1698	A Joint-MeTask Deployment Strategy for Load Balancing in Edge Computing. 2019 , 7, 99658-99669	11
1697	Using Virtual Events for Edge-based Data Stream Reduction in Distributed Publish/Subscribe Systems. 2019 ,	
1696	Home Edge Computing Architecture for Smart and Sustainable Agriculture and Breeding. 2019 ,	3
1695	Making BREAD: Biomimetic Strategies for Artificial Intelligence Now and in the Future. 2019 , 13, 666	5
1694	Reliability-aware and Deadline-constrained workflow scheduling in Mobile Edge Computing. 2019 ,	8

1693	A Proactive Context-Aware Service Replication Scheme for Adhoc IoT Scenarios. 2019 , 16, 1797-1811	5
1692	A Survey on Fog Computing. 2019 , 160-169	5
1691	A Smart Manufacturing Service System Based on Edge Computing, Fog Computing, and Cloud Computing. 2019 , 7, 86769-86777	87
1690	Fusion of Cognitive Wireless Networks and Edge Computing. 2019 , 26, 69-75	25
1689	Edge Computing and Networking: A Survey on Infrastructures and Applications. 2019 , 7, 101213-101230	32
1688	YAFS: A Simulator for IoT Scenarios in Fog Computing. 2019 , 7, 91745-91758	58
1687	Predictive Online Server Provisioning for Cost-Efficient IoT Data Streaming Across Collaborative Edges. 2019 ,	7
1686	Edge Computing Based Applications in Vehicular Environments: Comparative Study and Main Issues. 2019 , 34, 869-886	15
1685	A Universal Complex Event Processing Mechanism Based on Edge Computing for Internet of Things Real-Time Monitoring. 2019 , 7, 101865-101878	9
1684	Edge-Assisted Stream Scheduling Scheme for the Green-Communication-Based IoT. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 7282-7292	10.7 5
1683	Flexible replica placement for enhancing the availability in edge computing environment. 2019 , 146, 1-14	16
1682	Trust management in a blockchain based fog computing platform with trustless smart oracles. 2019 , 101, 747-759	80
1681	Ecosystem of Things: Hardware, Software, and Architecture. 2019 , 107, 1563-1583	3
1680	SMHC. 2019 ,	
1679	A Comparative Research on Open Source Edge Computing Systems. 2019 , 157-170	1
1678	Adaboost-based security level classification of mobile intelligent terminals. 2019 , 75, 7460-7478	36
1677	Closed-Form Delay-Optimal Computation Offloading in Mobile Edge Computing Systems. 2019 , 18, 4653-4667	24
1676	An adaptive offloading framework for Android applications in mobile edge computing. 2019 , 62, 1	22

1675	. 2019 , 7, 71749-71769	16
1674	Real-time task processing method based on edge computing for spinning CPS. 2019 , 14, 320-331	8
1673	Edge Video Analytics for Public Safety: A Review. 2019 , 107, 1675-1696	31
1672	Real-Time Pedestrian Detection Approach with an Efficient Data Communication Bandwidth Strategy. 2019 , 2673, 129-139	8
1671	Mobile Edge Computing. 2019 , 10, 23-46	2
1670	Modeling, planning, and scheduling of shop-floor assembly process with dynamic cyber-physical interactions: a case study for CPS-based smart industrial robot production. 2019 , 105, 3979-3989	13
1669	A short-term energy prediction system based on edge computing for smart city. 2019 , 101, 444-457	27
1668	A survey on wireless sensor network databases. 2019 , 25, 4921-4946	10
1667	Secure data sharing scheme for VANETs based on edge computing. 2019 , 2019,	18
1666	Toward Intelligent Surveillance as an Edge Network Service (iSENSE) using Lightweight Detection and Tracking Algorithms. 2019 , 1-1	6
1665	An energy saving based on task migration for mobile edge computing. 2019 , 2019,	6
1664	Dynamic service deployment for budget-constrained mobile edge computing. 2019 , 31, e5436	7
1663	Personal volunteer computing. 2019 ,	10
1662	. 2019 , 7, 153123-153140	62
1661	Privacy-Preserving Object Detection for Medical Images with Faster R-CNN. 2019 , 1-1	18
1660	. 2019 , 7, 137704-137719	2
1659	Review of the D2D Trusted Cooperative Mechanism in Mobile Edge Computing. 2019 , 10, 259	3
1658	Edge Computing Approach for Vessel Monitoring System. 2019 , 12, 3087	3

1657	Action-Oriented Programming Model: Collective Executions and Interactions in the Fog. 2019 , 157, 110391	7
1656	. 2019 ,	2
1655	PMS: Intelligent Pollution Monitoring System Based on the Industrial Internet of Things for a Healthier City. 2019 , 33, 34-40	7
1654	A survey of smart product-service systems: Key aspects, challenges and future perspectives. 2019 , 42, 100973	124
1653	From distributed coordination to field calculus and aggregate computing. 2019 , 109, 100486	23
1652	Toward Computation Offloading in Edge Computing: A Survey. 2019 , 7, 131543-131558	69
1651	A Computation Offloading Method for Edge Computing With Vehicle-to-Everything. 2019 , 7, 131068-131077	24
1650	Optimizing Data Transfers for Bandwidth Usage and End-to-End Latency between Fogs and Cloud. 2019 ,	0
1649	Adaptive Information Processing and Distribution to Support Command and Control in Situations of Disadvantaged Battlefield Network Connectivity. 2019 ,	3
1648	Energy efficient assignment and deployment of tasks in structurally variable infrastructures. 2019 ,	0
1647	BCEdge: Blockchain-based resource management in D2D-assisted mobile edge computing. 2019 , 51, 2085	3
1646	Orientation Optimization for Full-View Coverage Using Rotatable Camera Sensors. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 10508-10518	10.7 6
1645	Vehicle-Mounted Base Station for Connected and Autonomous Vehicles: Opportunities and Challenges. 2019 , 26, 30-36	15
1644	Multi-Task Scheduling Based on Classification in Mobile Edge Computing. 2019 , 8, 938	1
1643	DeFog. 2019 ,	23
1642	Couper. 2019 ,	3
1641	. 2019 ,	7
1640	F-cooper. 2019 ,	38

1639	Collaborative cloud-edge computation for personalized driving behavior modeling. 2019,	9
1638	IoT fault management in cloud/fog environments. 2019,	3
1637	Simplicity is Best. 2019,	3
1636	Estimating and Controlling the Renewable Microgrid States Using IoT Infrastructure. 2019, 21, 2105-2113	3
1635	Air Pollution Detection System using Edge Computing. 2019,	1
1634	In a Spin-Wave Reservoir for Machine Learning. 2019,	1
1633	A User-Centric Mobility Management Scheme for High-Density Fog Computing Deployments. 2019,	1
1632	Anatomization of Fog Computing and Edge Computing. 2019,	1
1631	Enabling Container-Based Fog Computing with OpenStack. 2019,	2
1630	JSDoop and TensorFlow.js: Volunteer Distributed Web Browser-Based Neural Network Training. 2019, 7, 158671-158684	3
1629	A Case Study On Approximate FPGA Design With an Open-Source Image Processing Platform. 2019,	4
1628	. 2019,	0
1627	An Industrial IoT Solution for Evaluating Workers' Performance Via Activity Recognition. 2019,	8
1626	DMRM: Distributed Market-Based Resource Management of Edge Computing Systems. 2019,	0
1625	ChordEdge. 2019,	1
1624	Zone of control. 2019,	1
1623	Path Selection with Joint Latency and Packet Loss for Edge Computing in SDN. 2019,	1
1622	Addressing Application Latency Requirements through Edge Scheduling. 2019, 17, 677-698	16

1621	Blockchain-Based Mobility-as-a-Service. 2019,	9
1620	EdgeDrive: Supporting Advanced Driver Assistance Systems using Mobile Edge Clouds Networks. 2019,	6
1619	Perceptual Vibration Hashing by Sub-Band Coding: An Edge Computing Method for Condition Monitoring. 2019, 7, 129644-129658	2
1618	. 2019, 7, 164229-164245	42
1617	Resonance $\$p\$$ -Laplacian Problem in Edge Device Control of IoT. 2019, 7, 149776-149784	
1616	What the Fog? Edge Computing Revisited: Promises, Applications and Future Challenges. 2019, 7, 152847-152878	78
1615	Optimality Assessment of Memory-Bounded ConvNets Deployed on Resource-Constrained RISC Cores. 2019, 7, 152599-152611	4
1614	When Social Sensing Meets Edge Computing: Vision and Challenges. 2019,	12
1613	Resource-Aware Decentralized Adaptive Computational Offloading & Task-Caching for Multi-Access Edge Computing. 2019,	1
1612	Adaptive fault-tolerant scheduling strategies for mobile cloud computing. 2019, 75, 4472-4488	10
1611	An Affordable Fast Early Warning System for Edge Computing in Assembly Line. 2019, 9, 84	21
1610	Energy Consumption Prediction System Based on Deep Learning with Edge Computing. 2019,	4
1609	Exploiting Digital Identity for Mobility in Fog Computing. 2019,	1
1608	Edge-to-Edge Resource Discovery using Metadata Replication. 2019,	8
1607	On Pending Interest Table in Named Data Networking based Edge Computing: The Case of Mobile Augmented Reality. 2019,	
1606	Decentralized IoT Edge Nanoservice Architecture for Future Gadget-Free Computing. 2019, 7, 119856-119872	14
1605	. 2019,	3
1604	Remote Debugging for Containerized Applications in Edge Computing Environments. 2019,	7

1603	Towards a Methodology for Benchmarking Edge Processing Frameworks. 2019,	2
1602	Edge Computing, IoT and Social Computing in Smart Energy Scenarios. 2019, 19,	41
1601	Image Mining for Real Time Fault Detection within the Smart Factory. 2019,	4
1600	Integration of Pervasive Platforms with iCasa. 2019,	
1599	The Coming Age of Pervasive Data Processing. 2019,	
1598	A Formal Methodology for Easing Development and Maintenance of Entity Services in Service Oriented Software-Defined Internet of Things. <i>IEEE Internet of Things Journal</i> , 2019, 6, 9516-9530	10.7 2
1597	WiPi. 2019,	
1596	Making a Business Out of (Predictive Application Management in) the Fog*. 2019,	2
1595	A Case for Machine Learning in Edge-Oriented Computing to Enhance Mobility as a Service. 2019,	2
1594	BS-Assisted Task Offloading for D2D Networks with Presence of User Mobility. 2019,	5
1593	Run-Time Managed Mobile Application Execution. 2019,	0
1592	Studying the Impact of CPU and Memory Controller Frequencies on Power Consumption of the Jetson TX1. 2019,	
1591	Distributed Fair Randomized (DFR): a Resource Sharing Protocol for Fog Providers. 2019,	0
1590	. 2019, 7, 97052-97093	49
1589	Edge task allocation scheme based on data classification. 2019,	1
1588	Blockchain-Enabled Security-Aware Applications in Home Internet of Thing. 2019,	1
1587	Implementation of fog computing for data pre-processing in an IoT and cloud computing scenario. 2019,	
1586	Multi Authority Access Control in a Cloud EHR System with MA-ABE. 2019,	2

1585	Towards an Infrastructure Enabling the Internet of Production. 2019 ,		46
1584	A Cloudlet Platform With Virtual Sensors for Smart Edge Computing. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 8455-8462	10.7	4
1583	Toward Fast and Distributed Computation Migration System for Edge Computing in IoT. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 10041-10052	10.7	7
1582	Lightweight and Expressive Fine-grained Access Control for Healthcare Internet-of-Things. 2019 , 1-1		29
1581	Autonomous Cars, 5G Mobile Networks and Smart Cities: Beyond the Hype. 2019 ,		5
1580	Coordinating Computation at the Edge: a Decentralized, Self-Organizing, Spatial Approach. 2019 ,		14
1579	Control from the Cloud: Edge Computing, Services and Digital Shadow for Automation Technologies*. 2019 ,		11
1578	A Sustainable Multi-modal Multi-layer Emotion-aware Service at the Edge. 2019 , 1-1		1
1577	An Integrated IoT Enabled On-Demand Grocery Shopping and Delivery Cloud System Using MTComm at the Edge. 2019 ,		0
1576	ReSeT: Reducing the Service Disruption Time of Follow Me Edges over Wide Area Networks. 2019 ,		2
1575	Mobility-Aware and Migration-Enabled Online Edge User Allocation in Mobile Edge Computing. 2019 ,		46
1574	OMID: Optimized Micro-Architecture Design for Fog Computing Applications. 2019 ,		1
1573	Machine Learning Model Updates in Edge Computing: An Optimal Stopping Theory Approach. 2019 ,		1
1572	Integrating Networking, Storage, and Computing for Resilient Battlefield Networks. 2019 , 57, 56-63		4
1571	Equivalence-Enhanced Microservice Workflow Orchestration to Efficiently Increase Reliability. 2019 ,		2
1570	Efficient Deployment of Predictive Analytics in Edge Gateways: Fall Detection Scenario. 2019 ,		0
1569	Towards Analyzing the Performance of Hybrid Edge-Cloud Processing. 2019 ,		11
1568	A Novel Task Caching and Migration Strategy in Multi-Access Edge Computing Based on the Genetic Algorithm. 2019 , 11, 181		8

1567	Data Caching Optimization in the Edge Computing Environment. 2019,	14
1566	Towards an architecture for big data analytics leveraging edge/fog paradigms. 2019,	2
1565	Context-Aware Enforcement of Privacy Policies in Edge Computing. 2019,	0
1564	Device to Device Collaboration for Mobile Clouds in Drop Computing. 2019,	1
1563	Future Internet: trends and challenges. 2019, 20, 1185-1194	8
1562	Cloud Computing With Kubernetes Cluster Elastic Scaling. 2019,	4
1561	Smart cities as a source for entrepreneurial opportunities: Evidence for Spain. 2019, 148, 119713	28
1560	Learning Process Models in IoT Edge. 2019,	0
1559	Synchronizing physical and digital factory: benefits and technical challenges. 2019, 79, 472-477	28
1558	Industrial smart product-service systems solution design via hybrid concerns. 2019, 83, 187-192	15
1557	Vulnerability-based risk assessment and mitigation strategies for edge devices in the Internet of Things. 2019, 59, 101068	13
1556	. 2019, 26, 99-103	14
1555	Resource Management in Fog/Edge Computing. 2019, 52, 1-37	114
1554	Multi-LeaderFollower Game for MEC-Assisted Fusion-Based Vehicle On-Road Analysis. 2019, 68, 11200-11212	4
1553	Edge-cloud orchestration driven industrial smart product-service systems solution design based on CPS and IIoT. 2019, 42, 100984	54
1552	Real-Time Automatic Music Transcription (AMT) with Zync FPGA. 2019,	6
1551	Towards a computing continuum: Enabling edge-to-cloud integration for data-driven workflows. 2019, 33, 1159-1174	14
1550	In-network context inference in IoT sensory environment for efficient network resource utilization. 2019, 130, 89-103	9

1549	Towards the Design of a Formal Verification and Evaluation Tool of Real-Time Tasks Scheduling of IoT Applications. 2019 , 11, 204	22
1548	Towards the Decentralised Cloud. 2019 , 51, 1-36	95
1547	MASM: A Multiple-Algorithm Service Model for Energy-Delay Optimization in Edge Artificial Intelligence. 2019 , 15, 4216-4224	58
1546	Smart Energy Management and Demand Reduction by Consumers and Utilities in an IoT-Fog-Based Power Distribution System. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 7386-7394	10.7 33
1545	AAIoT: Accelerating Artificial Intelligence in IoT Systems. 2019 , 8, 825-828	42
1544	A computation offloading method over big data for IoT-enabled cloud-edge computing. 2019 , 95, 522-533	164
1543	. 2019 , 7, 6493-6509	0
1542	Dynamic multi-user computation offloading for wireless powered mobile edge computing. 2019 , 131, 1-15	11
1541	A Privacy-Preserving Edge Computation-Based Face Verification System for User Authentication. 2019 , 7, 14186-14197	10
1540	Virtual network function placement and resource optimization in NFV and edge computing enabled networks. 2019 , 152, 12-24	34
1539	A Blockchain-Based Nonrepudiation Network Computing Service Scheme for Industrial IoT. 2019 , 15, 3632-3641	135
1538	Internet of Spatial Things: A New Reference Model With Insight Analysis. 2019 , 7, 19653-19669	16
1537	DEED: Dynamic Energy-Efficient Data offloading for IoT applications under unstable channel conditions. 2019 , 96, 425-437	10
1536	An offloading method using decentralized P2P-enabled mobile edge servers in edge computing. 2019 , 94, 1-13	29
1535	A Survey on Secure Data Analytics in Edge Computing. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4946-4967	10.7 56
1534	Smart Factory [Konzeption und Prototyp zum Image Mining und zur Fehlererkennung in der Produktion. 2019 , 56, 1017-1040	4
1533	A PUF-based mutual authentication scheme for Cloud-Edges IoT systems. 2019 , 101, 246-261	23
1532	Energy-Efficient and Delay-Guaranteed Workload Allocation in IoT-Edge-Cloud Computing Systems. 2019 , 7, 78685-78697	39

1531	Study on distributed lithium-ion power battery grouping scheme for efficiency and consistency improvement. 2019 , 233, 429-445	6
1530	Edge Intelligence: Paving the Last Mile of Artificial Intelligence With Edge Computing. 2019 , 107, 1738-1762	539
1529	Scheduling strategy for computational-intensive data flow in generalized cluster environments. 2019 , 82, 105571	2
1528	. 2019 , 68, 7071-7079	8
1527	Self-organising Coordination Regions: A Pattern for Edge Computing. 2019 , 182-199	10
1526	Development capabilities for smart products. 2019 , 68, 727-750	61
1525	Multiple Workflow Scheduling with Offloading Tasks to Edge Cloud. 2019 , 38-52	3
1524	Characterization of IoT Workloads. 2019 , 1-15	3
1523	A Survey on IoT Security: Application Areas, Security Threats, and Solution Architectures. 2019 , 7, 82721-82743	414
1522	Privacy Techniques for Edge Computing Systems. 2019 , 107, 1632-1654	13
1521	A Survey on Software-Defined Networks and Edge Computing over IoT. 2019 , 289-301	9
1520	. 2019 ,	16
1519	Efficient Indexing Mechanism for Unstructured Data Sharing Systems in Edge Computing. 2019 ,	11
1518	Federated Learning-Based Computation Offloading Optimization in Edge Computing-Supported Internet of Things. 2019 , 7, 69194-69201	75
1517	Reconfiguration of the Multi-channel Communication System with Hierarchical Structure and Distributed Passive Switching. 2019 , 502-516	1
1516	Tolerable Data Transmission of Mobile Edge Computing Under Internet of Things. 2019 , 7, 71859-71871	1
1515	. 2019 , 7, 45881-45890	2
1514	GreenLoading: Using the citizens band radio for energy-efficient offloading of shared interests. 2019 , 144, 66-75	2

1513	A development approach for collective opportunistic Edge-of-Things services. 2019 , 498, 154-169	44
1512	Design and Development of Framework for Platform Level Issues in Fog Computing. 2019 , 8, 1-20	
1511	Raspberry Pi 3 Performance Characterization in an Artificial Vision Automotive Application. 2019 , 1-8	1
1510	Joint Downlink and Uplink Edge Computing Offloading in Ultra-Dense HetNets. 2019 , 24, 1452-1460	8
1509	IRESE: An intelligent rare-event detection system using unsupervised learning on the IoT edge. 2019 , 84, 41-50	22
1508	Lightweight Privacy-Preserving Identity-Based Verifiable IoT-Based Health Storage System. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 8393-8405	10.7 18
1507	Wireless Edge Computing With Latency and Reliability Guarantees. 2019 , 107, 1717-1737	59
1506	Delegated Authorization Framework for EHR Services using Attribute Based Encryption. 2019 , 1-1	3
1505	Smart cities survey: Technologies, application domains and challenges for the cities of the future. 2019 , 15, 155014771985398	73
1504	Real-Time Massive Vector Field Data Processing in Edge Computing. 2019 , 19,	2
1503	SmartHerd management: A microservices-based fog computing-assisted IoT platform towards data-driven smart dairy farming. 2019 , 49, 1055-1078	28
1502	Design and Implementation of an Open Source Framework and Prototype For Named Data Networking-Based Edge Cloud Computing System. 2019 , 7, 57741-57759	23
1501	Auction-Based Optimal Task Offloading in Mobile Cloud Computing. 2019 , 13, 2978-2985	14
1500	Pruning deep convolutional neural networks for efficient edge computing in condition assessment of infrastructures. 2019 , 34, 774-789	38
1499	Deep Unified Model For Face Recognition Based on Convolution Neural Network and Edge Computing. 2019 , 7, 72622-72633	59
1498	Invited Paper: Edge and Fog Computing: Vision and Research Challenges. 2019 ,	8
1497	A review of edge computing reference architectures and a new global edge proposal. 2019 , 99, 278-294	85
1496	Deep Reinforcement Learning Based Service Migration Strategy for Edge Computing. 2019 ,	18

1495	Service Mesh: Challenges, State of the Art, and Future Research Opportunities. 2019,	23
1494	Adaptive resource allocation based on the billing granularity in edge-cloud architecture. 2019, 145, 29-42	20
1493	Role of Fog Computing in IoT-Based Applications. 2019, 99-112	2
1492	Use of Machine Learning in Detecting Network Security of Edge Computing System. 2019,	9
1491	Repair Strategies for Mobile Storage Systems. 2019, 1-1	2
1490	Scheduling Real Time Security Aware tasks in Fog Networks. 2019, 1-1	18
1489	Using Advanced Handover and Localization Techniques for Maintaining Quality-of-Service of Mobile Users in Heterogeneous Cloud-Based Environment. 2019, 27, 972-997	2
1488	Dynamic multi-objective optimized replica placement and migration strategies for SaaS applications in edge cloud. 2019, 100, 921-937	17
1487	Energy-efficient fault-tolerant replica management policy with deadline and budget constraints in edge-cloud environment. 2019, 143, 152-166	16
1486	Energy-efficient computation offloading in 5G cellular networks with edge computing and D2D communications. 2019, 13, 1122-1130	22
1485	Security for 5G and Beyond. 2019, 21, 3682-3722	118
1484	Optimization and deployment of CNNs at the edge. 2019,	6
1483	Using machine learning for handover optimization in vehicular fog computing. 2019,	11
1482	Edge-Computing Video Analytics for Real-Time Traffic Monitoring in a Smart City. 2019, 19,	54
1481	A Fog Node Architecture for Real-Time Processing of Urban IoT Data Streams. 2019, 330-341	1
1480	ACRN: a big little hypervisor for IoT development. 2019,	10
1479	IoT Implementation of Kalman Filter to Improve Accuracy of Air Quality Monitoring and Prediction. 2019, 9, 1831	26
1478	State-of-the-Art Internet of Things in Protected Agriculture. 2019, 19,	125

1477	Convolutional Neural Network on Embedded Platform for People Presence Detection in Low Resolution Thermal Images. 2019,	16
1476	Describing services geolocation in IoT context. 2019,	1
1475	An execution model for serverless functions at the edge. 2019,	40
1474	Links as a Service (LaaS): Guaranteed Tenant Isolation in the Shared Cloud. 2019, 37, 1072-1084	3
1473	HeteroEdge. 2019,	17
1472	An Improved Binary Grey Wolf Optimizer for Dependent Task Scheduling in Edge Computing. 2019,	6
1471	Smart electronic gastroscope system using a cloudEdge collaborative framework. 2019, 100, 395-407	15
1470	Sustainability Analysis for Fog Nodes With Renewable Energy Supplies. <i>IEEE Internet of Things Journal</i> , 2019, 6, 6725-6735	10.7 4
1469	Heterogeneous social sensing edge computing system for deep learning based disaster response. 2019,	1
1468	Modeling and evaluating a complex edge computing based systems: An emergency management support system case study. 2019, 6, 100054	4
1467	Research on Intelligent Supervision Technology of Power Operation Security Risk Based on Internet of Things. 2019, 490, 062007	
1466	TMO: Time Domain Outsourcing Attribute-Based Encryption Scheme for Data Acquisition in Edge Computing. 2019, 7, 40240-40257	10
1465	. 2019, 21, 2849-2885	51
1464	Virtual Edge Computing Using Vehicular Micro Clouds. 2019,	12
1463	AutoVAPS. 2019,	10
1462	How can Big Data and machine learning benefit environment and water management: a survey of methods, applications, and future directions. 2019, 14, 073001	98
1461	Characterization of a pseudo-DRAM Crossbar Computational Memory Array in 55nm CMOS : (Invited Paper). 2019,	0
1460	Towards Energy Efficient non-von Neumann Architectures for Deep Learning. 2019,	9

1459	iRAF: A Deep Reinforcement Learning Approach for Collaborative Mobile Edge Computing IoT Networks. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 7011-7024	10.7	87
1458	Efficient Resource Allocation for Multi-Tenant Monitoring of Edge Infrastructures. 2019 ,		1
1457	Toward Knowledge as a Service Over Networks: A Deep Learning Model Communication Paradigm. 2019 , 37, 1349-1363		8
1456	Data Privacy Protection for Edge Computing of Smart City in a DIKW Architecture. 2019 , 81, 323-335		26
1455	Intelligent Multi-Camera Video Surveillance System for Smart City Applications. 2019 ,		10
1454	Lightweight Privacy-Preserving Ensemble Classification for Face Recognition. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 5778-5790	10.7	39
1453	Systematic Review of the Literature on Big Data in the Transportation Domain: Concepts and Applications. 2019 , 17, 35-44		40
1452	Blockchain-Based Privacy Preserving Deep Learning. 2019 , 370-383		5
1451	MR-Edge: a MapReduce-based Protocol for IoT Edge Computing with Resource Constraints. 2019 ,		2
1450	Deep Learning-Based Multiple Object Visual Tracking on Embedded System for IoT and Mobile Edge Computing Applications. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 5423-5431	10.7	47
1449	An InterPlanetary File System (IPFS) based IoT framework. 2019 ,		19
1448	A survey of privacy enhancing technologies for smart cities. 2019 , 55, 76-95		27
1447	Edge Computing in an IoT Base Station System: Reprogramming and Real-Time Tasks. 2019 , 2019, 1-10		9
1446	Securing Deep Learning Based Edge Finger Vein Biometrics With Binary Decision Diagram. 2019 , 15, 4244-4253		28
1445	Simulating Fog and Edge Computing Scenarios: An Overview and Research Challenges. 2019 , 11, 55		55
1444	Kerman: A Hybrid Lightweight Tracking Algorithm to Enable Smart Surveillance as an Edge Service. 2019 ,		9
1443	IoT Data Compression and Optimization Techniques in Cloud Storage. 2019 , 9, 43-59		20
1442	Decomposition of distributed edge systems based on the Petri nets and linear algebra technique. 2019 , 96, 20-31		6

1441	Fuzzy pattern tree for edge malware detection and categorization in IoT. 2019 , 97, 1-7	99
1440	Toward Edge-Assisted Internet of Things: From Security and Efficiency Perspectives. 2019 , 33, 50-57	53
1439	Smart-Edge-CoCaCo: AI-Enabled Smart Edge with Joint Computation, Caching, and Communication in Heterogeneous IoT. 2019 , 33, 58-64	61
1438	Edge Chaining Framework for Black Ice Road Fingerprinting. 2019 ,	1
1437	Recent advances in physical reservoir computing: A review. 2019 , 115, 100-123	400
1436	A Mobility-Aware Vehicular Caching Scheme in Content Centric Networks: Model and Optimization. 2019 , 68, 3100-3112	44
1435	Resource identification in fog-to-cloud systems: toward an identity management strategy. 2019 , 5, 29-40	2
1434	Partially policy-hidden attribute-based broadcast encryption with secure delegation in edge computing. 2019 , 97, 453-461	73
1433	Process Management in IoT Operating Systems: Cross-Influence between Processing and Communication Tasks in End-Devices. 2019 , 19,	14
1432	Online learning offloading framework for heterogeneous mobile edge computing system. 2019 , 128, 167-183	18
1431	Exploiting Mobile Edge Computing for Enhancing Vehicular Applications in Smart Cities. 2019 , 19,	9
1430	Energy-Efficient Collaborative Task ComputationOffloading in Cloud-Assisted Edge Computingfor IoT Sensors. 2019 , 19,	30
1429	VNF Placement Optimization at the Edge and Cloud □ 2019 , 11, 69	29
1428	A Dynamic Service Migration Mechanism in Edge Cognitive Computing. 2019 , 19, 1-15	100
1427	Reconfigurable Streaming for the Mobile Edge. 2019 ,	4
1426	Fast vibration characteristics analysis of an underwater shield tunnel using the accelerometer network enhanced by edge computing. 2019 , 141, 52-61	9
1425	An edge cloudBased body data sensing architecture for artificial intelligence computation. 2019 , 15, 155014771983901	3
1424	Fog Computing Service Provision using Bargaining Solutions. 2019 , 1-1	11

1423	Fog computing in internet of things: Practical applications and future directions. 2019 , 12, 1236-1262	13
1422	Optimal Pricing and Service Selection in the Mobile Cloud Architectures. 2019 , 7, 43564-43572	19
1421	Cooperative Transmission With Priority and Fairness in Edge Computing Systems. 2019 , 7, 44059-44069	2
1420	When UAV Swarm Meets Edge-Cloud Computing: The QoS Perspective. 2019 , 33, 36-43	78
1419	Detecting Vehicle Anomaly in the Edge via Sensor Consistency and Frequency Characteristic. 2019 , 68, 5618-5628	14
1418	Selective Offloading by Exploiting ARIMA-BP for Energy Optimization in Mobile Edge Computing Networks. 2019 , 12, 48	10
1417	Embedded deep learning in ophthalmology: making ophthalmic imaging smarter. 2019 , 11, 25158414198271727	
1416	Introducing Edge Controlling to Software Defined Networking to Reduce Processing Time. 2019 ,	3
1415	A Unified Model for the Mobile-Edge-Cloud Continuum. 2019 , 19, 1-21	26
1414	Lightweight Reinforcement Learning for Energy Efficient Communications in Wireless Sensor Networks. 2019 , 7, 29355-29364	58
1413	Orbital Edge Computing: Machine Inference in Space. 2019 , 18, 59-62	21
1412	A Video Surveillance System Based on Permissioned Blockchains and Edge Computing. 2019 ,	15
1411	Review of the Complexity of Managing Big Data of the Internet of Things. 2019 , 2019, 1-12	10
1410	Architecture to Embed Software Agents in Resource Constrained Internet of Things Devices. 2018 , 19,	6
1409	Cross-Device Computation Coordination for Mobile Collocated Interactions with Wearables. 2019 , 19,	2
1408	Pervasive computing middleware: current trends and emerging challenges. 2019 , 1, 10-23	13
1407	Lane scheduling around crossroads for edge computing based autonomous driving. 2019 , 95, 1-8	6
1406	Sustainable Offloading in Mobile Cloud Computing. 2019 , 52, 1-37	22

1405	An Approach to Share Self-Taught Knowledge between Home IoT Devices at the Edge. 2019 , 19,	7
1404	Digital Twin and Cloud, Fog, Edge Computing. 2019 , 171-181	3
1403	Real-time city-scale ridesharing via linear assignment problems. 2019 , 101, 208-232	58
1402	Multi-objective resource allocation for Edge Cloud based robotic workflow in smart factory. 2019 , 97, 119-130	48
1401	Artificial intelligence: a survey on evolution, models, applications and future trends. 2019 , 6, 1-29	107
1400	. 2019 , 7, 22495-22508	33
1399	An edge computing-enabled computation offloading method with privacy preservation for internet of connected vehicles. 2019 , 96, 89-100	140
1398	Edge Computing: A Promising Framework for Real-Time Fault Diagnosis and Dynamic Control of Rotating Machines Using Multi-Sensor Data. 2019 , 19, 4211-4220	24
1397	Mobile Transparent Computing: A Novel User-Centric Approach to Unify Device, Edge, and Cloud. 2019 , 33, 132-137	2
1396	Building complex event processing capability for intelligent environmental monitoring. 2019 , 116, 1-6	17
1395	All one needs to know about fog computing and related edge computing paradigms: A complete survey. 2019 , 98, 289-330	468
1394	When Edge Computing Meets Microgrid: A Deep Reinforcement Learning Approach. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 7360-7374	10.7 22
1393	Visible Light Localization Using Conventional Light Fixtures and Smartphones. 2019 , 18, 2968-2983	8
1392	Energy Efficient Dynamic Offloading in Mobile Edge Computing for Internet of Things. 2019 , 1-1	103
1391	An energy efficient IoT data compression approach for edge machine learning. 2019 , 96, 168-175	88
1390	An efficient convolutional neural network for small traffic sign detection. 2019 , 97, 269-277	22
1389	Security and privacy preservation in fog-based crowd sensing on the internet of vehicles. 2019 , 134, 89-99	36
1388	Elucidating the challenges for the praxis of fog computing: An aspect-based study. 2019 , 32, e3926	11

1387	Evaluation and efficiency comparison of evolutionary algorithms for service placement optimization in fog architectures. 2019 , 97, 131-144	47
1386	Enabling real-time audio-video inputs for Internet of Things operational policy enforcement. 2019 , 6, 100041	1
1385	Collaborative In-Network Processing for Internet of Battery-Less Things. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 5184-5195	10.7 12
1384	The path to the Hotel of Things: Internet of Things and Big Data converging in hospitality. 2019 , 11, 93-107	7
1383	A Perspective of Emerging Technologies for Industrial Internet. 2019 ,	3
1382	Is it Time to Revisit Erasure Coding in Data-Intensive Clusters?. 2019 ,	1
1381	Research of Multi-source Perception and Intelligent Diagnosis Technology of Outdoor Installation Protection Based on Data Syncretism. 2019 ,	
1380	Intelligent Eco Networking (IEN) II: A Knowledge-Driven Future Internet Infrastructure for Value-Oriented Ecosystem. 2019 ,	1
1379	Semantic face segmentation on mobile devices. 2019 ,	
1378	Collective hybrid intelligence: towards a conceptual framework. 2019 , 3, 198-220	10
1377	An Edge Computing Platform of Guide-dog Robot for Visually Impaired. 2019 ,	1
1376	PULP-NN: A Computing Library for Quantized Neural Network inference at the edge on RISC-V Based Parallel Ultra Low Power Clusters. 2019 ,	9
1375	Efficient Task Offloading with Dependency Guarantees in Ultra-Dense Edge Networks. 2019 ,	9
1374	DeepBees - Building and Scaling Convolutional Neuronal Nets For Fast and Large-Scale Visual Monitoring of Bee Hives. 2019 ,	5
1373	AD2: Improving Quality of IoT Data through Compressive Anomaly Detection. 2019 ,	1
1372	. 2019 ,	1
1371	An Edge Computing Visual System for Vegetable Categorization. 2019 ,	3
1370	Rendering Scheduling Framework in Edge Computing: A Congestion Game-based Approach. 2019 ,	

1369	An Improved Sierpinski Fractal Based Network Architecture for Edge Computing Datacenters. 2019	2
1368	A CloudSim-Extension for Simulating Distributed Functions-as-a-Service. 2019 ,	5
1367	Efficiency and Security for Edge Computing Assisted Smart Grids. 2019 ,	2
1366	Multi-Source Feedback Based Light-Weight Trust Mechanism for Edge Computing. 2019 ,	1
1365	Using Cyber PLC to Link Physical Operations with Cyber Control Decisions. 2019 , 39, 294-299	1
1364	The Messaging Model Design Based Blockchain and Edge Computing for the Internet of Things. 2019 ,	0
1363	Optimal Task Partition and Power Allocation for Mobile Edge Computing with NOMA. 2019 ,	7
1362	Scalable Blockchain Implementation for Edge-based Internet of Things Platform. 2019 ,	2
1361	Intelligent logistics system architecture design based on edge computing. 2019 ,	1
1360	CoopNet: Cooperative Convolutional Neural Network for Low-Power MCUs. 2019 ,	2
1359	Multi-Access Edge Computing-Assisted D2D Streaming for Proximity-Based Social Networking. 2019 ,	2
1358	Burst-Mode Optical-Clock-Pulse Generator with Enhanced Sensitivity. 2019 ,	
1357	Stochastic Model for Evaluating Smart Hospitals Performance. 2019 ,	4
1356	IoT-based Multi-view Machine Vision Systems. 2019 ,	
1355	A Support Infrastructure for Machine Learning at the Edge in Smart City Surveillance. 2019 ,	5
1354	Temporal Data Fusion at the Edge. 2019 ,	
1353	Global Data Plane: A Federated Vision for Secure Data in Edge Computing. 2019 ,	1
1352	A Null-Space-Based Verification Scheme for Coded Edge Computing against Pollution Attacks. 2019	0

1351	Edge Computing Terminal Equipment Planning Method for Real-time Online Monitoring Service of Power Grid. 2019,	2
1350	Resource-Aware Object Classification and Segmentation for Semi-Autonomous Grasping with Prosthetic Hands. 2019,	5
1349	. 2019,	1
1348	The Messaging Protocols Analysis of Integrating Blockchain and Edge Computing for IoT. 2019,	0
1347	Edge assisted Reliable Landslide Early Warning System. 2019,	3
1346	Area-Efficient Distributed Arithmetic Optimization via Heuristic Decomposition and In-Memroy Computing. 2019,	0
1345	Design and Implementation of the Smart Shopping Basket Based on IoT Technology. 2019,	0
1344	A Learning-Based Expected Best Offloading Strategy in Wireless Edge Networks. 2019,	1
1343	Collaborative Robot Transport System Based on Edge Computing. 2019,	2
1342	Fog Seeding Strategies for Information-Centric Heterogeneous Vehicular Networks. 2019,	1
1341	Research on Information Collection Technology of Power Information Assets Based On NB-IOT. 2019,	
1340	Online Joint Scheduling of Delay-Sensitive and Computation-Oriented Tasks in Edge Computing. 2019,	2
1339	Optimal Placement of Cloudlets Considering Electric Power Communication Network and Renewable Energy Resource. 2019,	1
1338	Low-level strongly typed dataframes for machine learning and statistical computing in resource-constrained devices. 2019,	
1337	The Co-design between Fault-accommodation and Communication Saving for Nonlinear CPS based on Edge Computing. 2019,	
1336	An Open Audio Processing Platform with Zync FPGA. 2019,	2
1335	. 2019,	1
1334	Synergetic Node of Edge Computing and Hybrid Fibre-Wireless (FiWi) Access Networks for IoT. 2019,	1

1333	Demo Abstract: Real-time Social Sensing Task Allocation Strategies in Heterogeneous Edge Computing Systems. 2019,	
1332	Edge-oriented Collaborative Caching in Information-Centric Networking. 2019,	5
1331	Flexible low-latency metro-access converged network architecture based on optical time slice switching. 2019, 11, 624	1
1330	Lightweight Polygonal Approximation-Based ECG Signal Processing Platform. 2019,	1
1329	Highly Cited Papers on Urban Public Security Research: A Bibliometric Analysis. 2019, 136, 04095	
1328	ADDA: Adaptive Distributed DNN Inference Acceleration in Edge Computing Environment. 2019,	5
1327	LTE 230MHz Wireless Private Network-Based Edge-Cloud Collaboration Architecture for Ubiquitous Power Internet of Things. 2019,	0
1326	Mobility-Aware Tasks Offloading in Mobile Edge Computing Environment. 2019,	7
1325	Capacity and Rate Maximization in MEC Systems. 2019,	3
1324	A Development Platform of Intelligent Mobile APP Based on Edge Computing. 2019,	
1323	Computation Task Assignment in Vehicular Fog Computing: A Learning Approach via Neighbor Advice. 2019,	3
1322	Container-based MQTT Broker Cluster for Edge Computing. 2019,	5
1321	Mesh WSN Data Aggregation and Face Identification in Fog Computing Framework. 2019,	3
1320	Internet of M-Health Things System for Remote EKG Monitoring. 2019,	
1319	Resource provisioning for highly reliable and ultra-responsive edge applications. 2019,	3
1318	Integration of Logic Controller with IoT to Form a Manufacturing Edge Computing Environment: A Premise. 2019, 39, 398-405	1
1317	Cloud-Powered Digital Twins: Is It Reality?. 2019,	
1316	The Design and Implementation of a RESTful IoT Service Using the MERN Stack. 2019,	0

1315	Differential Privacy-Based Indoor Localization Privacy Protection in Edge Computing. 2019,	3
1314	An Online Computation Offloading Mechanism for Mobile Edge Computing in Ultra-Dense Small Cell Networks. 2019,	2
1313	Towards Big Data Processing in IoT: Network Management for Online Edge Data Processing. 2019,	2
1312	Dependable and Secure Voting Mechanism in Edge Computing. 2019, 11, 262	1
1311	Participating-Domain Segmentation Based Server Selection Scheme in Successive Participation Scenario. 2019,	1
1310	IoT Demonstration Platform for Education and Research. 2019,	4
1309	The Service Computational Resource Management Strategy Based On Edge-Cloud Collaboration. 2019,	3
1308	Distributed Reprogramming on the Edge: A New Collaborative Code Dissemination Strategy for IoT. 2019, 8, 267	5
1307	Latency aware online tasks scheduling policy for edge computing system. 2019, 1325, 012152	1
1306	Asset Monitoring using Smart Sensing and Advanced Analytics for the Distribution Network. 2019,	3
1305	Towards a Threat Model for Fog Computing. 2019,	1
1304	Lightweight Privacy-Preserving Equality Query in Edge Computing. 2019, 7, 182588-182599	3
1303	Investigating Edge vs. Cloud Computing Trade-offs for Stream Processing. 2019,	3
1302	Analysis of Software Aging Impacts on Plant Anomaly Detection with Edge Computing. 2019,	2
1301	When Learning Joins Edge: Real-Time Proportional Computation Offloading via Deep Reinforcement Learning. 2019,	1
1300	Quantifying Uncertainty in Source Term Estimation with Tensorflow Probability. 2019,	
1299	Object (B)logging: a Decentralized Cognitive Paradigm for the Industrial Internet of Things. 2019,	
1298	A Scalable Testbed for Task Offloading and Deployment of Heterogeneous Edge Computing. 2019,	1

1297 Sensors intelligent interaction based on game theory : An interactive matrix and algorithm design. **2019,**

1296 Social Edge Intelligence: Integrating Human and Artificial Intelligence at the Edge. **2019,**

9

1295 An Efficient Mobile Server Task Scheduling Algorithm in D2D Environment. **2019,**

1294 Internet of Things Device Capability Profiling Using Blockchain. **2019,**

1293 MobileEdge: Enhancing On-Board Vehicle Computing Units Using Mobile Edges for CAVs. **2019,**

4

1292 Teddybear: Enabling Efficient Seamless Container Migration in User-Owned Edge Platforms. **2019,**

1

1291 An Edge Computing Service Model Based on Information-Centric Networking. **2019,**

2

1290 Facial Expression Recognition Based on Edge Computing. **2019,**

2

1289 . **2019,**

1288 Dynamic Adaptive Network Edge Service Migration Method Based on a Docker Container. **2019,**

1

1287 Energy-Aware Workload Allocation for Distributed Deep Neural Networks in Edge-Cloud Continuum. **2019,**

3

1286 EdgeBatch: Towards AI-Empowered Optimal Task Batching in Intelligent Edge Systems. **2019,**

7

1285 Distributed Global Optimization by Annealing. **2019,**

0

1284 Face Recognition in the Fog Cluster Computing. **2019,**

2

1283 DOCMA: A Decentralized Orchestrator for Containerized Microservice Applications. **2019,**

2

1282 OpenEI: An Open Framework for Edge Intelligence. **2019,**

36

1281 Re-designing Compact-structure based Forwarding for Programmable Networks. **2019,**

6

1280 MIGOU: A Low-Power Experimental Platform with Programmable Logic Resources and Software-Defined Radio Capabilities. **2019, 19,**

4

1279	A Credible and Lightweight Multidimensional Trust Evaluation Mechanism for Service-Oriented IoT Edge Computing Environment. 2019,	4
1278	. 2019, 7, 142916-142925	6
1277	Enhancing the User Experience in Vehicular Edge Computing Networks: An Adaptive Resource Allocation Approach. 2019, 7, 161074-161087	19
1276	TuSoW: Tuple Spaces for Edge Computing. 2019,	3
1275	Fog Computing with P2P: Enhancing Fog Computing Bandwidth for IoT Scenarios. 2019,	4
1274	Foundations and Evolution of Modern Computing Paradigms: Cloud, IoT, Edge, and Fog. 2019, 7, 150936-150948	486
1273	Toward High-Performance Computing and Big Data Analytics Convergence: The Case of Spark-DIY. 2019, 7, 156929-156955	2
1272	Multilevel Neural Network for Reducing Expected Inference Time. 2019, 7, 174129-174138	3
1271	Blockchain Based Data Integrity Verification for Large-Scale IoT Data. 2019, 7, 164996-165006	38
1270	Device-Enhanced MEC: Multi-Access Edge Computing (MEC) Aided by End Device Computation and Caching: A Survey. 2019, 7, 166079-166108	78
1269	. 2019,	11
1268	Efficient Caching for Data-Driven IoT Applications and Fast Content Delivery with Low Latency in ICN. 2019, 9, 4730	7
1267	Minimizing Energy for Caching Resource Allocation in Information-Centric Networking with Mobile Edge Computing. 2019,	4
1266	Workload-Aware Task Placement in Edge-Assisted Human Re-identification. 2019,	3
1265	Distributed Middleware for Edge Vision Systems. 2019,	3
1264	A Novel Framework for Intelligent Automation. 2019, 52, 1825-1830	11
1263	A Review of Fog Network Implementations in Current IoT Products. 2019,	0
1262	Edge computing: A tractable model for smart agriculture?. 2019, 3, 42-51	38

1261	Task Offloading for Social Sensing Applications in Mobile Edge Computing. 2019,	1
1260	Privacy-Preserving Data Integrity Verification in Mobile Edge Computing. 2019,	13
1259	Edge Cloud-based Augmented Reality. 2019,	2
1258	Distributed Computation Offloading in Resource Limited Fog Computing. 2019,	1
1257	A Novel Hierarchical Edge Computing Solution Based on Deep Learning for Distributed Image Recognition in IoT Systems. 2019,	2
1256	Deep Learning Based Couple-like Cooperative Computing Method for IoT-based Intelligent Surveillance Systems. 2019,	0
1255	Cartel. 2019,	8
1254	Review of Power Spatio-Temporal Big Data Technologies for Mobile Computing in Smart Grid. 2019 , 7, 174612-174628	4
1253	Security and Privacy Issues in Cloud, Fog and Edge Computing. 2019, 160, 734-739	33
1252	ReLaDec: Reliable Latency Decision Algorithm for Connected Vehicle Applications. 2019,	1
1251	Context-Aware K8S Scheduler for Real Time Distributed 5G Edge Computing Applications. 2019,	2
1250	Emerging Technologies for 5G-Enabled Vehicular Networks. 2019, 7, 181117-181141	24
1249	Reliability-Aware Task Allocation Latency Optimization in Edge Computing. 2019,	3
1248	QoE-Constrained Concurrent Request Optimization Through Collaboration of Edge Servers. <i>IEEE Internet of Things Journal</i> , 2019, 6, 9951-9962	10.7 8
1247	. 2019,	0
1246	An effective metaheuristic algorithm for the deployment problem of edge computing servers. 2019 ,	1
1245	lotbench: A Benchmark Suite for Intelligent Internet of Things Edge Devices. 2019,	2
1244	Mapping the Knowledge Domain of Smart-City Research: A Bibliometric and Scientometric Analysis. 2019, 11, 6648	27

1243	Collaborative Vehicular Edge Computing Networks: Architecture Design and Research Challenges. 2019 , 7, 178942-178952	25
1242	Fast Decentralized Data Analytics in IoT Wireless Networks. 2019 , 7, 181531-181545	1
1241	Interoperability of home automation systems as a critical challenge for IoT. 2019 ,	4
1240	. 2019 , 13, 48-56	31
1239	. 2019 , 33, 44-49	39
1238	. 2019 , 7, 151692-151704	0
1237	Joint Optimization of Energy Conservation and Migration Cost for Complex Systems in Edge Computing. 2019 , 2019, 1-14	3
1236	An Efficient Task Scheduling Strategy Utilizing Mobile Edge Computing in Autonomous Driving Environment. 2019 , 8, 1221	4
1235	Data cache optimization model based on cyclic genetic ant colony algorithm in edge computing environment. 2019 , 15, 155014771986786	2
1234	Business Logic for Resilient Supply Chain Logistics. 2019 ,	1
1233	Data management in an industrial service-oriented platform. 2019 ,	
1232	A Cyclic Game for Joint Cooperation and Competition of Edge Resource Allocation. 2019 ,	7
1231	Design and Deployment of a Wireless BAN at the Edge for Reliable Healthcare Monitoring. 2019 ,	
1230	FRAME: Fault Tolerant and Real-Time Messaging for Edge Computing. 2019 ,	4
1229	. 2019 ,	1
1228	Joint Computation Offloading and Service Caching for MEC in Multi-access Networks. 2019 ,	2
1227	Arbitrary-Precision Convolutional Neural Networks on Low-Power IoT Processors. 2019 ,	
1226	XLF: A Cross-layer Framework to Secure the Internet of Things (IoT). 2019 ,	5

1225	EdgeAI: A Vision for Deep Learning in the IoT Era. 2019 , 1-1		6
1224	Hardware architectures for PRESENT block cipher and their FPGA implementations. 2019 , 13, 958-969		9
1223	Traffic congestion assessment based on street level data for on-edge deployment. 2019 ,		0
1222	Three-Real-Time Architecture of Industrial Automation Based on Edge Computing. 2019 ,		5
1221	Deep Reinforcement Learning Based Offloading Scheme for Mobile Edge Computing. 2019 ,		3
1220	Enabling End-to-End Secure Connectivity for Low-Power IoT Devices with UAVs. 2019 ,		3
1219	Inference on the Edge: Performance Analysis of an Image Classification Task Using Off-The-Shelf CPUs and Open-Source ConvNets. 2019 ,		3
1218	Enhancing Security and Privacy of Next-Generation Edge Computing Technologies. 2019 ,		1
1217	Privacy-Preserving Pedestrian Detection for Smart City with Edge Computing. 2019 ,		1
1216	Task Adaptation Algorithm Based on Edge Computing in Internet of Vehicles. 2019 ,		
1215	Improving Cloud-Based IoT Services Through Virtual Network Embedding in Elastic Optical Inter-DC Networks. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 986-996	10.7	31
1214	A Double Deep Q-Learning Model for Energy-Efficient Edge Scheduling. 2019 , 12, 739-749		62
1213	Learning in Memristive Neural Network Architectures Using Analog Backpropagation Circuits. 2019 , 66, 719-732		59
1212	Minimizing dependency on internetwork: Is dew computing a solution?. 2019 , 30, e3496		16
1211	Improving the Energy Efficiency by Exceeding the Conservative Operating Limits. 2019 , 241-271		
1210	Joint Optimization of Energy Consumption and Latency in Mobile Edge Computing for Internet of Things. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4791-4803	10.7	57
1209	Revisiting Computation Partitioning in Future 5G-Based Edge Computing Environments. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 2427-2438	10.7	17
1208	A Secure IoT Service Architecture With an Efficient Balance Dynamics Based on Cloud and Edge Computing. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4831-4843	10.7	135

1207	A review of information centric network-based internet of things: communication architectures, design issues, and research opportunities. 2019 , 78, 30241-30256		25
1206	Computational negotiation-based edge analytics for smart objects. 2019 , 480, 222-236		19
1205	The Internet of Things: A Review of Enabled Technologies and Future Challenges. 2019 , 7, 7606-7640		99
1204	ePhysio: A Wearables-Enabled Platform for the Remote Management of Musculoskeletal Diseases. 2018 , 19,		18
1203	Encyclopedia of Wireless Networks. 2019 , 1-5		1
1202	Seamless Virtualized Controller Migration for Drone Applications. 2019 , 23, 51-58		1
1201	Edge-based personal computing services: fall detection as a pilot study. 2019 , 101, 1199-1223		3
1200	FPGA based acceleration of game theory algorithm in edge computing for autonomous driving. 2019 , 93, 33-39		15
1199	Stochastic Computation Offloading and Trajectory Scheduling for UAV-Assisted Mobile Edge Computing. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 3688-3699	10.7	105
1198	An Internet-of-Things (IoT) Network System for Connected Safety and Health Monitoring Applications. 2018 , 19,		124
1197	LAMANCO: A Lightweight Anonymous Mutual Authentication Scheme for $\$N\$$ -Times Computing Offloading in IoT. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4462-4471	10.7	19
1196	A survey on fog computing for the Internet of Things. 2019 , 52, 71-99		105
1195	An Energy-Aware Offloading Framework for Edge-Augmented Mobile RFID Systems. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 3994-4004	10.7	30
1194	Technology Fundamentals. 2019 , 67-126		3
1193	. 2019 , 68, 1757-1771		46
1192	Joint Resource Allocation for Latency-Sensitive Services Over Mobile Edge Computing Networks With Caching. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4283-4294	10.7	58
1191	ERP: Edge Resource Pooling for Data Stream Mobile Computing. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4355-4368	10.7	12
1190	Computation Offloading and Resource Allocation in Vehicular Networks Based on Dual-Side Cost Minimization. 2019 , 68, 1079-1092		127

1189	Edge Computing for Smart Grid: An Overview on Architectures and Solutions. 2019 , 21-42		9
1188	The Extreme Edge at the Bottom of the Internet of Things: A Review. 2019 , 19, 3179-3190		34
1187	Architectural Considerations for Next Generation IoT Processors. 2019 , 13, 2906-2917		4
1186	P2TA: Privacy-preserving task allocation for edge computing enhanced mobile crowdsensing. 2019 , 97, 130-141		22
1185	Swarm Economy: A Model for Transactions in a Distributed and Organic IoT Platform. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4561-4572	10.7	4
1184	Green and Sustainable Cloud of Things: Enabling Collaborative Edge Computing. 2019 , 57, 72-78		91
1183	Towards Dynamically Reconfigurable IoT Camera Virtualization for Video Analytics Edge Cloud Services. 2019 , 23, 10-17		2
1182	Fog Computing Realization for Big Data Analytics. 2019 , 259-290		9
1181	Addressing the Challenges in Federating Edge Resources. 2019 , 25-49		3
1180	Management and Orchestration of Network Slices in 5G, Fog, Edge, and Clouds. 2019 , 79-101		9
1179	Adaptive machine learning-based alarm reduction via edge computing for distributed intrusion detection systems. 2019 , 31, e5101		26
1178	Collaborative cache allocation and task scheduling for data-intensive applications in edge computing environment. 2019 , 95, 249-264		49
1177	Cost-effective replication management and scheduling in edge computing. 2019 , 129, 46-61		19
1176	Hybrid approach of parallel implementation on CPUGPU for high-speed ECDSA verification. 2019 , 75, 4329-4349		3
1175	Fog/Edge Computing-Based IoT (FECIoT): Architecture, Applications, and Research Issues. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4118-4149	10.7	108
1174	. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4019-4034	10.7	5
1173	Joint Task Assignment, Transmission, and Computing Resource Allocation in Multilayer Mobile Edge Computing Systems. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 2872-2884	10.7	69
1172	Smart Musical Instruments: Vision, Design Principles, and Future Directions. 2019 , 7, 8944-8963		15

1171	Privacy Preserving Data Aggregation Scheme for Mobile Edge Computing Assisted IoT Applications. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4755-4763	10.7	90
1170	EdgeChain: An Edge-IoT Framework and Prototype Based on Blockchain and Smart Contracts. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4719-4732	10.7	111
1169	A Novel and Scalable Naming Strategy for IoT Scenarios. 2019 , 122-133		1
1168	Data fusion and machine learning for industrial prognosis: Trends and perspectives towards Industry 4.0. 2019 , 50, 92-111		215
1167	. 2019 , 107, 123-143		42
1166	Bringing Deep Learning at the Edge of Information-Centric Internet of Things. 2019 , 23, 52-55		55
1165	Cooperative Base Station Caching and X2 Link Traffic Offloading System for Video Streaming Over SDN-Enabled 5G Networks. 2019 , 18, 2005-2019		15
1164	Dynamic Computation Offloading in Edge Computing for Internet of Things. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4242-4251	10.7	59
1163	Non-Real-Time Transportation Applications: Potential Use of Connected Vehicle Data and Data Infrastructure Requirements. 2019 , 25, 02518002		
1162	EdgeFlow: Open-Source Multi-layer Data Flow Processing in Edge Computing for 5G and Beyond. 2019 , 33, 166-173		25
1161	Online task dispatching and pricing for quality-of-service-aware sensing data collection for mobile edge clouds. 2019 , 2, 28-42		2
1160	A survey on data fusion in internet of things: Towards secure and privacy-preserving fusion. 2019 , 51, 129-144		90
1159	Mobility-Aware Fog Computing in Dynamic Environments: Understandings and Implementation. 2019 , 7, 38867-38879		22
1158	Beef Up the Edge: Spectrum-Aware Placement of Edge Computing Services for the Internet of Things. 2019 , 18, 2783-2795		26
1157	Privacy Preserving Collaborative Computing: Heterogeneous Privacy Guarantee and Efficient Incentive Mechanism. 2019 , 67, 221-233		19
1156	A Survey of Cloudlet-Based Mobile Augmentation Approaches for Resource Optimization. 2019 , 51, 1-28		14
1155	Edge Computing and Efficient Resource Management for Integration of Video Devices in Smart Grid Deployments. 2019 , 115-132		1
1154	Bibliography. 2019 , 339-347		

1153	Joint optimization of data placement and scheduling for improving user experience in edge computing. 2019 , 125, 93-105	50
1152	Making Big Data Open in Edges: A Resource-Efficient Blockchain-Based Approach. 2019 , 30, 870-882	127
1151	A 2321996-kS/s Robust Compressive Sensing Reconstruction Engine for Real-Time Physiological Signals Monitoring. 2019 , 54, 307-317	11
1150	A wearable sensor-based activity prediction system to facilitate edge computing in smart healthcare system. 2019 , 123, 46-53	77
1149	Efficient Live Migration of Edge Services Leveraging Container Layered Storage. 2019 , 18, 2020-2033	40
1148	Virtual Reality for Smart City Visualization and Monitoring. 2019 , 1-18	2
1147	QoS prediction for service recommendations in mobile edge computing. 2019 , 127, 134-144	80
1146	Towards a cloud-based automated surveillance system using wireless technologies. 2019 , 25, 535-549	4
1145	. 2019 , 12, 712-725	71
1144	Adaptive Wireless Video Streaming Based on Edge Computing: Opportunities and Approaches. 2019 , 12, 685-697	51
1143	Edge cloud computing service composition based on modified bird swarm optimization in the internet of things. 2019 , 22, 8079-8087	19
1142	Take your time, get it closer: content dissemination within mobile pedestrian crowds. 2019 , 25, 3385-3403	1
1141	Privacy-Preserving Reputation Management for Edge Computing Enhanced Mobile Crowdsensing. 2019 , 12, 786-799	81
1140	Towards energy efficient service composition in green energy powered CyberPhysical Fog Systems. 2020 , 105, 757-765	34
1139	A software defined caching framework based on user access behavior analysis for transparent computing server. 2020 , 13, 64-81	
1138	A survey: energy-efficient sensor and VM selection approaches in green computing for X-IoT applications. 2020 , 42, 290-305	6
1137	Optimizing Social Welfare of Live Video Streaming Services in Mobile Edge Computing. 2020 , 19, 922-934	20
1136	Edge Computing Architectures in Industry 4.0: A General Survey and Comparison. 2020 , 121-131	8

1135	SherlockFog: a new tool to support application analysis in Fog and Edge computing. 2020 , 23, 165-176	2
1134	A novel edge-enabled SLAM solution using projected depth image information. 2020 , 32, 15369-15381	2
1133	Random Caching Optimization in Large-Scale Cache-Enabled Internet of Things Networks. 2020 , 7, 385-397	5
1132	Fast Operation Mode Selection for Highly Efficient IoT Edge Devices. 2020 , 39, 572-584	2
1131	User allocation-aware edge cloud placement in mobile edge computing. 2020 , 50, 489-502	49
1130	Latency-Aware Distributed Resource Provisioning for Deploying IoT Applications at the Edge of the Network. 2020 , 377-391	9
1129	Developing applications in large scale, dynamic fog computing: A case study. 2020 , 50, 519-532	4
1128	Characterizing application scheduling on edge, fog, and cloud computing resources. 2020 , 50, 558-595	20
1127	Neuromemristive Circuits for Edge Computing: A Review. 2020 , 31, 4-23	90
1126	Edge-enabled IoT gateway criteria selection and evaluation. 2020 , 32, e5219	8
1125	Detecting removed attributes in the cyber system for smart manufacturing. 2020 , 76, 6280-6301	
1124	An Overview of Internet of Dental Things: New Frontier in Advanced Dentistry. 2020 , 110, 1345-1371	14
1123	Serverless Management of Sensing Systems for Fog Computing Framework. 2020 , 20, 1564-1572	17
1122	Measuring data-centre workflows complexity through process mining: the Google cluster case. 2020 , 76, 2449-2478	7
1121	A survey of edge computing-based designs for IoT security. 2020 , 6, 195-202	77
1120	A cloud-edge based data security architecture for sharing and analysing cyber threat information. 2020 , 102, 710-722	30
1119	Optimal Task Offloading and Resource Allocation in Mobile-Edge Computing With Inter-User Task Dependency. 2020 , 19, 235-250	73
1118	The Inherent Mechanism and a Case Study of the Constructional Evolution of the JointCloud Ecosystem. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 1561-1571	10.7 1

1117	Compact bilinear pooling via kernelized random projection for fine-grained image categorization on low computational power devices. 2020 , 398, 411-421		5
1116	Joint Optimization of Offloading Utility and Privacy for Edge Computing Enabled IoT. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 2622-2629	10.7	78
1115	Cognitive computing and wireless communications on the edge for healthcare service robots. 2020 , 149, 99-106		120
1114	Mildip: An energy efficient code offloading framework in mobile cloudlets. 2020 , 513, 84-97		4
1113	Remote condition monitoring for photovoltaic systems. 2020 , 133-142		3
1112	Workload forecasting based elastic resource management in edge cloud. 2020 , 139, 106136		7
1111	Privacy on the Edge: Customizable Privacy-Preserving Context Sharing in Hierarchical Edge Computing. 2020 , 7, 2298-2309		20
1110	An osmotic computing infrastructure for urban pollution monitoring. 2020 , 50, 533-557		7
1109	A New Approach: Edge Computing and Blockchain for Industry 4.0. 2020 , 201-204		2
1108	A Smart Home Assistive Living Framework Using Fog Computing for Audio and Lighting Stimulation. 2020 , 366-375		1
1107	Optimization of lightweight task offloading strategy for mobile edge computing based on deep reinforcement learning. 2020 , 102, 847-861		50
1106	Prediction Based Vehicular Caching: Where and What to Cache?. 2020 , 25, 760-771		1
1105	Edge Computing Framework for Wearable Sensor-Based Human Activity Recognition. 2020 , 376-387		1
1104	Self-Organized Laboratories for Smart Campus. 2020 , 13, 404-416		13
1103	Learning-Aided Computation Offloading for Trusted Collaborative Mobile Edge Computing. 2020 , 19, 2833-2849		40
1102	Data-Driven Edge Intelligence for Robust Network Anomaly Detection. 2020 , 7, 1481-1492		12
1101	Big Data Cleaning Based on Mobile Edge Computing in Industrial Sensor-Cloud. 2020 , 16, 1321-1329		97
1100	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 800-817	10.7	11

1099	A Game-Theoretical Approach for User Allocation in Edge Computing Environment. 2020 , 31, 515-529	116
1098	Two-Tier Matching Game in Small Cell Networks for Mobile Edge Computing. 2020 , 1-1	8
1097	VTracer: When Online Vehicle Trajectory Compression Meets Mobile Edge Computing. 2020 , 14, 1635-1646	19
1096	LW-CoEdge: a lightweight virtualization model and collaboration process for edge computing. 2020 , 23, 1127-1175	11
1095	Blockchain and edge computingBased architecture for participatory smart city applications. 2020 , 32, e5566	10
1094	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 6056-6068	10.7 17
1093	Energy-Efficient Pattern Recognition Hardware With Elementary Cellular Automata. 2020 , 69, 392-401	6
1092	Dynamic decision support for resource offloading in heterogeneous Internet of Things environments. 2020 , 101, 102019	11
1091	IoT-Based Electric Vehicle State Estimation and Control Algorithms Under Cyber Attacks. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 874-881	10.7 23
1090	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 2509-2520	10.7 10
1089	5G network-based Internet of Things for demand response in smart grid: A survey on application potential. 2020 , 257, 113972	125
1088	e-LiteSense: Self-adaptive energy-aware data sensing in WSN environments. 2020 , 33, e4153	0
1087	. 2020 , 19, 447-457	149
1086	Privacy-preserving clustering for big data in cyber-physical-social systems: Survey and perspectives. 2020 , 515, 132-155	13
1085	Hardware Resource Analysis in Distributed Training with Edge Devices. 2020 , 9, 28	2
1084	Delay and Energy Consumption Analysis of Frame Slotted ALOHA variants for Massive Data Collection in Internet-of-Things Scenarios. 2020 , 10, 327	0
1083	Resource management for meteorological service in cloud-edge computing: A survey. 2020 , e3844	1
1082	Energy aware edge computing: A survey. 2020 , 151, 556-580	39

1081	Artificial Perception Built on Memristive System: Visual, Auditory, and Tactile Sensations. 2020 , 2, 1900118	21
1080	Smart computing and cyber technology for cyberization. 2020 , 23, 1089-1100	3
1079	A zone-based content pre-caching strategy in vehicular edge networks. 2020 , 106, 22-33	2
1078	. 2020 , 8, 8202-8250	93
1077	A Survey of Vehicular Cloud Research: Trends, Applications and Challenges. 2020 , 21, 2648-2663	31
1076	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 3067-3082	10.7 14
1075	mVideo: Edge Computing Based Mobile Video Processing Systems. 2020 , 8, 11615-11623	8
1074	Multiuser Physical Layer Authentication in Internet of Things With Data Augmentation. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 2077-2088	10.7 19
1073	Online VNF chain deployment on resource-limited edges by exploiting peer edge devices. 2020 , 170, 107069	4
1072	A hybrid machine learning approach for malicious behaviour detection and recognition in cloud computing. 2020 , 151, 102507	16
1071	A novel majority based imprecise 4:2 compressor with respect to the current and future VLSI industry. 2020 , 73, 102962	9
1070	Architecting and Deploying IoT Smart Applications: A Performance-Oriented Approach. 2019 , 20,	21
1069	OFFM-ANFIS analysis for flood prediction using mobile IoS, fog and cloud computing. 2020 , 23, 2659-2676	5
1068	Resource and replica management strategy for optimizing financial cost and user experience in edge cloud computing system. 2020 , 516, 33-55	31
1067	Convolution Based Feature Extraction for Edge Computing Access Authentication. 2020 , 7, 2336-2346	6
1066	A Distributed and Anonymous Data Collection Framework Based on Multilevel Edge Computing Architecture. 2020 , 16, 6114-6123	14
1065	Mobile Edge Intelligence and Computing for the Internet of Vehicles. 2020 , 108, 246-261	136
1064	A decentralized Artificial Immune System for solution selection in CyberPhysical Systems. 2020 , 86, 105920	5

1063	Distributed Green Offloading and Power Optimization in Virtualized Small Cell Networks With Mobile Edge Computing. 2020 , 4, 69-82		7
1062	Toward Optimal Hybrid Service Function Chain Embedding in Multiaccess Edge Computing. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 6035-6045	10.7	5
1061	Distributed Blockchain-Based Trusted Multidomain Collaboration for Mobile Edge Computing in 5G and Beyond. 2020 , 16, 7094-7104		69
1060	A Survey of Internet of Things (IoT) for Geohazard Prevention: Applications, Technologies, and Challenges. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 4371-4386	10.7	60
1059	Blockchain of Finite-Lifetime Blocks With Applications to Edge-Based IoT. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 2102-2116	10.7	16
1058	On-demand resource provision based on load estimation and service expenditure in edge cloud environment. 2020 , 151, 102506		11
1057	Mercury: A modeling, simulation, and optimization framework for data stream-oriented IoT applications. 2020 , 101, 102037		5
1056	Dynamic Power-Latency Tradeoff for Mobile Edge Computation Offloading in NOMA-Based Networks. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 2763-2776	10.7	19
1055	Fog Computing Applications in Smart Cities: A Systematic Survey. 2020 , 26, 1433-1457		47
1054	Challenges to IoT-Enabled Predictive Maintenance for Industry 4.0. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 4585-4597	10.7	62
1053	Optimal Downlink-Uplink Scheduling of Wireless Networked Control for Industrial IoT. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 1756-1772	10.7	12
1052	MATLAB-based framework for data analytics applied to Hajj dataset: Hajj health meter. 2020 , 38, 2481-2490		0
1051	ECSNet++ : A simulator for distributed stream processing on edge and cloud environments. 2020 , 111, 401-418		7
1050	Toward Big Data Processing in IoT: Path Planning and Resource Management of UAV Base Stations in Mobile-Edge Computing System. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 5995-6009	10.7	43
1049	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 1910-1918	10.7	21
1048	Reliable pharma cold chain monitoring and analytics through Internet of Things Edge. 2020 , 133-161		0
1047	Cyber-Physical-Social Systems: A State-of-the-Art Survey, Challenges and Opportunities. 2020 , 22, 389-425		43
1046	Computation Offloading with Multiple Agents in Edge-Computing-Supported IoT. 2020 , 16, 1-27		36

1045	PULP-NN: accelerating quantized neural networks on parallel ultra-low-power RISC-V processors. 2020 , 378, 20190155	37
1044	Toward Edge-Based Deep Learning in Industrial Internet of Things. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 4329-4341	10.7 69
1043	Toward a Non-Intrusive, Affordable Platform for Elderly Assistance and Health Monitoring. 2020 ,	2
1042	The Tradeoff Between Coverage and Computation in Wireless Networks. 2020 ,	1
1041	Edge Emergency Demand Response Control via Scheduling in Cloudlet Cluster. 2020 ,	0
1040	Two-Level Stackelberg Game for IoT Computational Resource Trading Mechanism: A Smart Contract Approach. 2020 , 1-1	4
1039	A Lightweight Location-Aware Fog Framework (LAFF) for QoS in Internet of Things Paradigm. 2020 , 2020, 1-15	4
1038	Energy-Efficient Resource Provisioning Strategy for Reduced Power Consumption in Edge Computing. 2020 , 10, 6057	1
1037	A Multi-Criteria Multi-Cloud Service Composition in Mobile Edge Computing. 2020 , 12, 7661	4
1036	Fog Computing for Realizing Smart Neighborhoods in Smart Grids. 2020 , 9, 76	4
1035	Network-Density-Controlled Decentralized Parallel Stochastic Gradient Descent in Wireless Systems. 2020 ,	2
1034	A Lightweight Cyber-Security Defense Framework for Smart Homes. 2020 ,	1
1033	Crowdsourced Edge: A Novel Networking Paradigm for the Collaborative Community. 2020 ,	
1032	Cloud-Edge Collaborative Industrial Robotic Intelligent Service Platform. 2020 ,	1
1031	Edge computational task offloading scheme using reinforcement learning for IIoT scenario. 2020 , 6, 291-299	13
1030	Custom-IP for Gradient Descent Optimization based on Hardware/Software Co-design Paradigm. 2020 ,	
1029	Oxide-Based Electrolyte-Gated Transistors for Spatiotemporal Information Processing. 2020 , 32, e2003018	48
1028	Towards cost-effective service migration in mobile edge: A Q-learning approach. 2020 , 146, 175-188	0

1027	Urban Traffic Flow Prediction Model with CPSO/SSVM Algorithm under the Edge Computing Framework. 2020 , 2020, 1-11	2
1026	A Task Offloading Method with Edge for 5G-Envisioned Cyber-Physical-Social Systems. 2020 , 2020, 1-9	3
1025	Large Scale Distributed Data Processing for a Network of Humanoid Telepresence Robots. 2020 ,	1
1024	Optimal Resource Allocation for Delay Minimization in NOMA-MEC Networks. 2020 , 68, 7867-7881	43
1023	Smart Contracts for Service-Level Agreements in Edge-to-Cloud Computing. 2020 , 18, 673-690	11
1022	SoftSystem: Smart Edge Computing Device Selection Method for IoT Based on Soft Set Technique. 2020 , 2020, 1-10	5
1021	A deep neural network compression algorithm based on knowledge transfer for edge devices. 2020 , 163, 186-194	8
1020	Leveraging Deep Learning and IoT big data analytics to support the smart cities development: Review and future directions. 2020 , 38, 100303	76
1019	Scalable edge cloud platforms for IoT services. 2020 , 170, 102785	12
1018	A novel privacy-preserving speech recognition framework using bidirectional LSTM. 2020 , 9,	9
1017	Fine-Grained Access Control-Enabled Logging Method on ARM TrustZone. 2020 , 8, 81348-81364	3
1016	Distributed Storage Codes Based on Double- Layered Piggybacking Framework. 2020 , 8, 150447-150464	1
1015	On the Continuous Processing of Health Data in Edge-Fog-Cloud Computing by Using Micro/Nanoservice Composition. 2020 , 8, 120255-120281	14
1014	CLAWER: Context-aware Cloud-Fog based Workflow Management Framework for Health Emergency Services. 2020 ,	4
1013	Priority-based Fair Scheduling in Edge Computing. 2020 ,	3
1012	New Frontiers in IoT: Networking, Systems, Reliability, and Security Challenges. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 11330-11346	10.7 11
1011	Trading off between User Coverage and Network Robustness for Edge Server Placement. 2020 , 1-1	22
1010	Interference-aware SaaS User Allocation Game for Edge Computing. 2020 , 1-1	9

1009	. 2020, 1-1	14
1008	CloudScout: A Deep Neural Network for On-Board Cloud Detection on Hyperspectral Images. 2020, 12, 2205	30
1007	Scientific AI in Materials Science: a Path to a Sustainable and Scalable Paradigm. 2020, 1,	19
1006	HydraView: A Synchronized 360o-View of Multiple Sensors for Autonomous Vehicles. 2020,	
1005	Mobility-aware computation offloading in edge computing using prediction. 2020,	4
1004	ADHD fMRI short-time analysis method for edge computing based on multi-instance learning. 2020, 111, 101834	6
1003	Air-Ground Integrated Mobile Edge Networks: A Survey. 2020, 8, 125998-126018	32
1002	HydraMini: An FPGA-based Affordable Research and Education Platform for Autonomous Driving. 2020,	3
1001	A Filament Supply System Capable of Remote Monitoring and Automatic Humidity Control for 3D Printer. 2020, 2020, 1-10	3
1000	BSV-PAGS: Blockchain-based special vehicles priority access guarantee scheme. 2020, 161, 28-40	12
999	. 2020, 22, 2462-2488	111
998	Secure Drone Network Edge Service Architecture Guaranteed by DAG-Based Blockchain for Flying Automation under 5G. 2020, 20,	2
997	Energy efficient compressive sensing with predictive model for IoT based medical data transmission. 2020, 1	
996	Decode-and-Compare: An Efficient Verification Scheme for Coded Edge Computing. 2020,	1
995	Knowledge-based edge computing framework based on CoAP and HTTP for enabling heterogeneous connectivity. 2020, 1	2
994	Edge-Computing Architectures for Internet of Things Applications: A Survey. 2020, 20,	22
993	An Energy Management System at the Edge based on Reinforcement Learning. 2020,	3
992	Falcon: A Blockchain-Based Edge Service Migration Framework in MEC. 2020, 2020, 1-17	4

991	Offloading Dependent Tasks in Mobile Edge Computing with Service Caching. 2020,	20
990	A Multi-grained Reconfigurable Accelerator for Approximate Computing. 2020,	2
989	SoSA: Socializing Static APs for Edge Resource Pooling in Large-Scale WiFi System. 2020,	3
988	Internet-of-Things-Infrastructure-as-a-Service: The democratization of access to public Internet-of-Things Infrastructure. 2020, 33, e4562	4
987	Survey on Deep Neural Networks in Speech and Vision Systems. 2020, 417, 302-321	36
986	Intrusion Detection for Smart Home Security Based on Data Augmentation with Edge Computing. 2020,	7
985	IoTArgos: A Multi-Layer Security Monitoring System for Internet-of-Things in Smart Homes. 2020,	11
984	Energy-Efficient Machine Learning on the Edges. 2020,	2
983	Enhanced Online Q-Learning Scheme for Resource Allocation with Maximum Utility and Fairness in Edge-IoT Networks. 2020, 7, 3074-3086	6
982	Video-assisted smart health monitoring for affliction determination based on fog analytics. 2020, 109, 103513	5
981	FlowTrace: Maximizing the Service Payoff of Heterogeneous Communications Networks. 2020, 7, 2481-2493	2
980	Privacy-Preserved Task Offloading in Mobile Blockchain With Deep Reinforcement Learning. 2020, 17, 2536-2549	50
979	SMS: A Secure Healthcare Model for Smart Cities. 2020, 9, 1135	13
978	A WoT Platform for Supporting Full-Cycle IoT Solutions from Edge to Cloud Infrastructures: A Practical Case. 2020, 20,	1
977	Run-time Mapping of Spiking Neural Networks to Neuromorphic Hardware. 2020, 92, 1293-1302	11
976	On Edge Computing for Remote Pathology Consultations and Computations. 2020, 24, 2523-2534	7
975	. 2020,	1
974	Deep Reinforcement Learning for the Management of Software-Defined Networks and Network Function Virtualization in an Edge-IoT Architecture. 2020, 12, 5706	10

973	Cognitive edge computing through artificial intelligence. 2020,	2
972	Deep learning architectures in emerging cloud computing architectures: Recent development, challenges and next research trend. 2020, 96, 106582	18
971	Learning Automata for Multi-Access Edge Computing Server Allocation with Minimal Service Migration. 2020,	4
970	Virtual Mobile Edge Computing Based on IoT Devices Resources in Smart Cities. 2020,	1
969	Deep Reinforcement Learning for MEC Streaming with Joint User Association and Resource Management. 2020,	5
968	Aviation Data Analytics in MRO Operations: Prospects and Pitfalls. 2020,	4
967	Optimizing Mobile Edge Computing Multi-Level Task Offloading via Deep Reinforcement Learning. 2020,	3
966	Deep Reinforcement Learning Based Offloading for Mobile Edge Computing with General Task Graph. 2020,	3
965	Abnormal activity detection using shear transformed spatio-temporal regions at the surveillance network edge. 2020, 79, 27511-27532	1
964	A Security-aware Workflow Scheduling Strategy for Edge-cloud Computing used in UVA Delivery System. 2020, 1544, 012080	
963	A distributed sensing data anomaly detection scheme. 2020, 97, 101960	1
962	Latency-Sensitive Web Service Workflows: A Case for a Software-Defined Internet. 2020,	
961	Power of random choices made efficient for fog computing. 2020, 1-1	2
960	. 2020,	3
959	Equinox: A Road-Side Edge Computing Experimental Platform for CAVs. 2020,	6
958	A survey on computation offloading modeling for edge computing. 2020, 169, 102781	62
957	Analyzing Deep Learning Model Inferences for Image Classification using OpenVINO. 2020,	5
956	Internet of smart charging points with photovoltaic Integration: A high-efficiency scheme enabling optimal dispatching between electric vehicles and power grids. 2020, 278, 115640	15

955	Cerberus: Privacy-Preserving Computation in Edge Computing. 2020,	2
954	A Software Architecture to enable Self-Organizing, Collaborative IoT Ressource Networks. 2020,	3
953	A Scheduling Strategy for Reduced Power Consumption in Mobile Edge Computing. 2020,	1
952	Performance Optimization for Edge-Cloud Serverless Platforms via Dynamic Task Placement. 2020,	8
951	A new Edge Architecture for AI-IoT services deployment. 2020, 175, 10-19	22
950	Robustness-oriented k Edge Server Placement. 2020,	14
949	Federated Region-Learning for Environment Sensing in Edge Computing System. 2020, 7, 2192-2204	12
948	A service-oriented edge platform for cyber-physical systems. 2020, 2, 206-217	3
947	Edge Intelligence: Challenges and Opportunities. 2020,	1
946	Tool Remaining Useful Life Prediction based on Edge Data Processing and LSTM Recurrent Neural Network. 2020,	0
945	. 2020,	1
944	AVAC: A Machine Learning Based Adaptive RRAM Variability-Aware Controller for Edge Devices. 2020,	2
943	Emergence of Edge Computing: An Advancement over Cloud and Fog. 2020,	0
942	VNF Placement for Service Function Chains with Strong Low-Delay Restrictions in Edge Computing Networks. 2020, 10, 6573	2
941	Deep Learning Models Compression for Agricultural Plants. 2020, 10, 6866	6
940	Edge Intelligence in the Making: Optimization, Deep Learning, and Applications. 2020, 1, 1-233	3
939	A Survey of Deep Learning for Data Caching in Edge Network. 2020, 7, 43	7
938	Privacy-preserving searchable encryption in the intelligent edge computing. 2020, 164, 31-41	3

937	An Effective Electronic waste management solution based on Blockchain Smart Contract in 5G Communities. 2020,	15
936	Smart Data Collection in Mobile Edge Computing Environment. 2020,	1
935	Trading off between Multi-tenancy and Interference: A Service User Allocation Game. 2020, 1-1	8
934	Secure Edge Computing Management Based on Independent Microservices Providers for Gateway-Centric IoT Networks. 2020, 8, 187975-187990	12
933	Distributed Fog Computing for Internet of Things (IoT) Based Ambient Data Processing and Analysis. 2020, 9, 1756	6
932	. 2020,	1
931	Advantages and Limitations of Fully on-Chip CNN FPGA-Based Hardware Accelerator. 2020,	4
930	A video-based vehicle counting system using an embedded device in realistic traffic conditions. 2020,	1
929	DDR-ESC: A Distributed and Data Reliability Model for Mobile Edge-Based Sensor-Cloud. 2020, 8, 185752-185760	60
928	A Discussion on Context-Awareness to Better Support the IoT Cloud/Edge Continuum. 2020, 8, 193686-193694	2
927	Review on the Two-layer Coordinated Architecture for Optimal Regulation and Control of Energy Interconnection System in ew-type Towns. 2020,	
926	Research on dynamic load balancing of data center network based on openflow technology. 2020,	0
925	Greening Reliability of Virtual Network Functions via Online Optimization. 2020,	3
924	A blockchain-based IoT data management scheme using Bernoulli distribution convergence in the mobile edge computing. 2020, 1	1
923	. 2020,	0
922	Detection and Tracking Contagion using IoT-Edge Technologies: Confronting COVID-19 Pandemic. 2020,	16
921	GPU based Re-trainable Pruned CNN design for Camera Trapping at the Edge. 2020,	
920	Real-Time Automatic Seizure Detection Using Ordinary Kriging Method in an Edge-IoMT Computing Paradigm. 2020, 1, 1	9

919	Overview of Edge Computing in the Agricultural Internet of Things: Key Technologies, Applications, Challenges. 2020 , 8, 141748-141761	26
918	Federated Network Utility Maximization. 2020 ,	2
917	Recent Progress on Memristive Convolutional Neural Networks for Edge Intelligence. 2020 , 2, 2000114	11
916	Verifiable Edge Computing for Indoor Positioning. 2020 ,	3
915	A Method of Searching for Optimal Coalition Structure for Solving Resource Scheduling Problem of Overall Load Balancing in Edge Computing Environments. 2020 , 1550, 032080	1
914	Augmenting Banking and FinTech with Intelligent Internet of Things Technology. 2020 ,	2
913	Artificial Intelligence for Securing IoT Services in Edge Computing: A Survey. 2020 , 2020, 1-13	19
912	A Social Sensing Approach for Quality Changes of Real-World Services. 2020 ,	0
911	BAGUETTE: Towards a Secure and Cost-effective Switch Upgrade in Hybrid Software-Defined Networks. 2020 ,	1
910	. 2020 ,	1
909	Peer-to-Peer Enhanced Task Scheduling for D2D Enabled MEC Network. 2020 , 8, 138236-138250	7
908	Edge Computing Enabled Production Anomalies Detection and Energy-Efficient Production Decision Approach for Discrete Manufacturing Workshops. 2020 , 8, 158197-158207	3
907	. 2020 , 8, 158402-158415	7
906	IoT reliability: a review leading to 5 key research directions. 2020 , 2, 147-163	24
905	Minimizing Data Breach by a Malicious Fog Node within a Fog Federation. 2020 ,	2
904	Green Offloading in Fog-Assisted IoT Systems: An Online Perspective Integrating Learning and Control. 2020 ,	2
903	Task Allocation Mechanism of Power Internet of Things Based on Cooperative Edge Computing. 2020 , 8, 158488-158501	5
902	Real-Time and Robust Hydraulic System Fault Detection via Edge Computing. 2020 , 10, 5933	5

901	. 2020 , 69, 10606-10618	2
900	A comparative analysis of resource allocation schemes for real-time services in high-performance computing systems. 2020 , 16, 155014772093275	3
899	A Stacked Human Activity Recognition Model Based on Parallel Recurrent Network and Time Series Evidence Theory. 2020 , 20,	2
898	Recognition of Crop Diseases Based on Depthwise Separable Convolution in Edge Computing. 2020 , 20,	4
897	Reducing the Service Function Chain Backup Cost over the Edge and Cloud by a Self-adapting Scheme. 2020 ,	10
896	Efficient and Secure Multi-User Multi-Task Computation Offloading for Mobile-Edge Computing in Mobile IoT Networks. 2020 , 17, 2410-2422	47
895	Data-Intensive Task Scheduling for Heterogeneous Big Data Analytics in IoT System. 2020 , 13, 4508	0
894	An Experimental Study on the Impact of Execution Location in Edge-Cloud Computing. 2020 ,	0
893	CRIME: Input-Dependent Collaborative Inference for Recurrent Neural Networks. 2020 , 1-1	3
892	. 2020 , 22, 2586-2633	80
891	DLASE: A light-weight framework supporting Deep Learning for Edge Devices. 2020 ,	1
890	Architectural Design Alternatives Based on Cloud/Edge/Fog Computing for Connected Vehicles. 2020 , 22, 2349-2377	33
889	Service Placement for Real-Time Applications: Rate-Adaptation and Load-Balancing at the Network Edge. 2020 ,	2
888	Joint Configuration Adaptation and Bandwidth Allocation for Edge-based Real-time Video Analytics. 2020 ,	19
887	Electric Vehicles Plug-In Duration Forecasting Using Machine Learning for Battery Optimization. 2020 , 13, 4208	2
886	Adaptive Service Function Chain Scheduling in Mobile Edge Computing via Deep Reinforcement Learning. 2020 , 8, 164922-164935	3
885	Scaling up an Edge Server Deployment. 2020 ,	5
884	A Demand-driven, Proactive Tasks Management Model at the Edge. 2020 ,	5

883	Incentive-Aware Recruitment of Intelligent Vehicles for Edge-Assisted Mobile Crowdsensing. 2020 , 69, 12085-12097	6
882	A Review of Techniques and Methods for IoT Applications in Collaborative Cloud-Fog Environment. 2020 , 2020, 1-15	10
881	Detection and Analysis Framework of Anomalous Internet Crime Data Based on Edge Computing. 2020 ,	1
880	Complex Event Processing on the Edge - Bringing Data Consolidation and Processing closer to Wireless Sensor Networks. 2020 ,	
879	Sum of squares: a new metric for NFV service chain placement in edge computing environments and efficient heuristic algorithms. 2020 , 3, 140-153	1
878	An IoT data sharing privacy preserving scheme. 2020 ,	5
877	Research on Artificial Intelligence Enhancing Internet of Things Security: A Survey. 2020 , 8, 153826-153848	28
876	Multiattribute Evaluation Model Based on the KSP Algorithm for Edge Computing. 2020 , 8, 146932-146943	1
875	A Review on Computational Intelligence Techniques in Cloud and Edge Computing. 2020 , 4, 742-763	20
874	Knowledge Transfer for On-Device Deep Reinforcement Learning in Resource Constrained Edge Computing Systems. 2020 , 8, 146588-146597	7
873	Improved Matrix-based Attribute Reduction Algorithm Based on Minimal Elements for Mobile Edge Computing. 2020 ,	
872	Model-size reduction for reservoir computing by concatenating internal states through time. 2020 , 10, 21794	2
871	The Use of MQTT in M2M and IoT Systems: A Survey. 2020 , 8, 201071-201086	36
870	Edge Computing and Its Convergence With Blockchain in 5G and Beyond: Security, Challenges, and Opportunities. 2020 , 8, 205340-205373	8
869	Key Advances in Pervasive Edge Computing for Industrial Internet of Things in 5G and Beyond. 2020 , 8, 206734-206754	14
868	EdgeFed: Optimized Federated Learning Based on Edge Computing. 2020 , 8, 209191-209198	31
867	. 2020 , 8, 223418-223460	30
866	Securing IT/OT Links for Low Power IIoT Devices: Design Considerations for Industry 4.0. 2020 , 8, 200305-200321	

865	Cloud-Edge Fusion Based Abnormal Object Detection of Power Transmission Lines Using Incremental Learning. 2020 , 8, 218694-218701	0
864	A Taste of Scientific Computing on the GPU-Accelerated Edge Device. 2020 , 8, 208337-208347	4
863	. 2020 , 8, 211973-211985	6
862	Distributed Secure Sparse Modeling Based on Random Unitary Transform. 2020 , 8, 211762-211772	2
861	Towards an Machine Learning-Based Edge Computing Oriented Monitoring System for the Desert Border Surveillance Use Case. 2020 , 8, 218304-218322	1
860	. 2020 , 8, 221975-221985	12
859	Protecting Health Care Workers from Infectious Diseases using Physical Proximity Networks (PPN). 2020 ,	1
858	Agricultural Productive Service System Based on the Block Chain and Edge Computing. 2020 , 2020, 1-9	0
857	IRRISENS: An IoT Platform Based on Microservices Applied in Commercial-Scale Crops Working in a Multi-Cloud Environment. 2020 , 20,	5
856	SEVA: Secure E-Voting Application in Cyber Physical System. 2020 , 1-31	0
855	Towards the Use of Artificial Intelligence on the Edge in Space Systems: Challenges and Opportunities. 2020 , 35, 44-56	21
854	Fall-detection on a wearable micro controller using machine learning algorithms. 2020 ,	1
853	A Novel Coevolutionary Approach to Reliability Guaranteed Multi-Workflow Scheduling upon Edge Computing Infrastructures. 2020 , 2020, 1-11	0
852	A Secure and Verifiable Outsourcing Scheme for Assisting Mobile Device Training Machine Learning Model. 2020 , 2020, 1-16	1
851	A Review on Scaling Mobile Sensing Platforms for Human Activity Recognition: Challenges and Recommendations for Future Research. 2020 , 1, 451-473	4
850	A holistic view on sector coupling. 2020 , 147, 111913	28
849	References. 2020 , 203-204	
848	Research on Security Issues of Docker and Container Monitoring System in Edge Computing System. 2020 , 1673, 012067	

847	Accelerate Personalized IoT Service Provision by Cloud-Aided Edge Reinforcement Learning: A Case Study on Smart Lighting. 2020 , 69-84	3
846	A Binarized Segmented ResNet Based on Edge Computing for Re-Identification. 2020 , 20,	3
845	The renaissance of augmented reality in construction: history, present status and future directions. 2020 , ahead-of-print,	5
844	Face Recognition and Machine Learning at the Edge. 2020 , 884, 012084	
843	Hybrid Workflow Provisioning and Scheduling on Edge Cloud Computing Using a Gradient Descent Search Approach. 2020 ,	4
842	A Deep Learning Model for Demand-Driven, Proactive Tasks Management in Pervasive Computing. 2020 , 1, 240-258	3
841	Optimal Placement of Social Digital Twins in Edge IoT Networks. 2020 , 20,	8
840	Blockchain-based Mobility-aware Offloading mechanism for Fog computing services. 2020 , 164, 261-273	9
839	Research on Construction and Application of Power Distribution Internet of Things. 2020 , 1634, 012038	
838	Optimal path strategy for the web computing under deep reinforcement learning. 2020 , 16, 529-544	
837	A Survey of Computation Offloading in Edge Computing. 2020 ,	7
836	Deep Learning Model Reuse and Composition in Knowledge Centric Networking. 2020 ,	3
835	Energy Efficient Software Matching in Distributed Vehicular Fog Based Architecture with Cloud and Fixed Fog Nodes. 2020 ,	1
834	Energy-efficient Deployment of IoT Applications in Edge-based Infrastructures: A Software Product Line Approach. <i>IEEE Internet of Things Journal</i> , 2020 , 1-1	10.7 2
833	CNN Inference acceleration using low-power devices for human monitoring and security scenarios. 2020 , 88, 106859	3
832	Krig-Detect: Exploring Alternative Kriging Methods for Real-Time Seizure Detection from EEG Signals. 2020 ,	1
831	Security Requirements for the Internet of Things: A Systematic Approach. 2020 , 20,	43
830	A Platform Base on RPECCF: Raspberry Pi Edge-Cloud Collaboration Framework. 2020 ,	0

829	Retention Correlated Read Disturb Errors in 3-D Charge Trap NAND Flash Memory: Observations, Analysis, and Solutions. 2020 , 39, 4042-4051	5
828	An Energy-Efficient Service Scheduling Algorithm in Federated Edge Cloud. 2020 ,	1
827	A Video Capturing and Processing Platform Based on Mobile Edge Computing. 2020 ,	1
826	Trade-offs in the Design of Blockchain of Finite-Lifetime Blocks for Edge-IoT Applications. 2020 ,	0
825	An Edge Storage Acceleration Service for Collaborative Mobile Devices. 2020 , 1-1	0
824	Data Caching Optimization in the Edge Computing Environment. 2020 , 1-1	6
823	A Survey on QoS Requirements Based on Particle Swarm Optimization Scheduling Techniques for Workflow Scheduling in Cloud Computing. 2020 , 12, 551	14
822	Improving the Robustness of Threshold-Based Single Hidden Layer Neural Networks via Regularization. 2020 ,	2
821	Fog Intelligence for Network Anomaly Detection. 2020 , 34, 78-82	3
820	Physical reservoir computing—An introductory perspective. 2020 , 59, 060501	75
819	Enhancing live virtual machine migration process via optimized resource allocation in next generation mobile edge network: A hybrid evolutionary approach. 2020 , 33, e4442	1
818	Revenue sharing in edge-cloud systems: A Game-theoretic perspective. 2020 , 176, 107286	0
817	An Integrated Method for High-Dimensional Imbalanced Assembly Quality Prediction Supported by Edge Computing. 2020 , 8, 71279-71290	7
816	Federated Learning in Mobile Edge Networks: A Comprehensive Survey. 2020 , 22, 2031-2063	414
815	Computation Offloading- Based Task Scheduling in the Vehicular Communication Environment for Computation-Intensive Vehicular Tasks. 2020 ,	5
814	An Edge-Cloud-Aided High-Order Possibilistic c-Means Algorithm for Big Data Clustering. 2020 , 28, 3100-3109	2
813	Edge Machine Learning for AI-Enabled IoT Devices: A Review. 2020 , 20,	78
812	RES: Real-time Video Stream Analytics using Edge Enhanced Clouds. 2020 , 1-1	13

811	Machine learning and data analytics for the IoT. 2020 , 32, 16205-16233	71
810	Optimum resource allocation in optical wireless systems with energy-efficient fog and cloud architectures. 2020 , 378, 20190188	11
809	Performance evaluation of a fog WSN infrastructure for emergency management. 2020 , 104, 102120	4
808	Privacy-preserving Real-time Anomaly Detection Using Edge Computing. 2020 ,	5
807	Embedded and Enterprise Fault Management for Aerospace Domain. 2020 ,	
806	Accessibility Analysis and Modeling for IoV in an Urban Scene. 2020 , 69, 4246-4256	47
805	. 2020 ,	0
804	Development and optimization of an MTConnect based edge computing node for remote monitoring in cyber manufacturing systems. 2020 ,	0
803	Sustainable IoT Sensing Applications Development through GraphQL-Based Abstraction Layer. 2020 , 9, 564	4
802	Machine Learning on Mainstream Microcontrollers. 2020 , 20,	24
801	Introduction. 2020 , 1-10	
800	Overview of Modern Computer Networks. 2020 , 11-51	
799	Mechanism Design and Auction Theory in Computer Networks. 2020 , 52-71	
798	Open-Cry Auction. 2020 , 72-99	
797	First-Price Sealed-Bid Auction. 2020 , 100-118	
796	Double-Sided Auction. 2020 , 189-214	
795	Other Auctions. 2020 , 215-235	
794	Index. 2020 , 278-280	

793 Second-Price Sealed-Bid Auction. **2020**, 119-157

792 Combinatorial Auction. **2020**, 158-188

791 Optimal Auction Using Machine Learning. **2020**, 236-259

790 EdgeRNN: A Compact Speech Recognition Network With Spatio-Temporal Features for Edge Computing. **2020**, 8, 81468-81478 25

789 Heterogeneous Network Architecture and Device-to-Device Communications in 5G Cellular Networks. **2020**, 1-24

788 Edge and Fog: A Survey, Use Cases, and Future Challenges. **2020**, 43-65 17

787 Study of Demand-Side Resources Collaborative Optimization System Based on the Cloud & Edge Computing. **2020**, 1

786 Distributed and Context Aware Application of Deep Neural Networks in Mobile 3D-Multi-sensor Systems Based on Cloud-, Edge- and FPGA-Computing. **2020**, 1

785 CE-IoT: Cost-Effective Cloud-Edge Resource Provisioning for Heterogeneous IoT Applications. *IEEE Internet of Things Journal*, **2020**, 7, 8600-8614 10.7 15

784 . *IEEE Internet of Things Journal*, **2020**, 7, 10733-10744 10.7 8

783 Offloading and Resource Allocation With General Task Graph in Mobile Edge Computing: A Deep Reinforcement Learning Approach. **2020**, 19, 5404-5419 39

782 Deep Learning in the Era of Edge Computing: Challenges and Opportunities. **2020**, 67-78 5

781 End-to-end learning interpolation for object tracking in low frame-rate video. **2020**, 14, 1066-1072 7

780 Research on Application Strategy of Deep Learning of Internet of Things Based on Edge Computing Optimization Method. **2020**, 1486, 022024 2

779 Using micro/mini PLC/PAC in the Edge Computing Architecture. **2020**, 1

778 Privacy-Preserving and Distributed Algorithms for Modular Exponentiation in IoT With Edge Computing Assistance. *IEEE Internet of Things Journal*, **2020**, 7, 8769-8779 10.7 8

777 ECCO: Edge-Cloud Chaining and Orchestration Framework for Road Context Assessment. **2020**, 2

776 Sparse Modeling on Distributed Encryption Data. **2020**, 2

775	CMS: A Continuous Machine-Learning and Serving Platform for Industrial Big Data. 2020 , 12, 102	2
774	Joint Task Scheduling and Energy Management for Heterogeneous Mobile Edge Computing With Hybrid Energy Supply. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 8419-8429	10.7 24
773	End-edge-cloud collaborative computation offloading for multiple mobile users in heterogeneous edge-server environment. 2020 , 1	23
772	Location Privacy Preservation Mechanism for Location-Based Service With Incomplete Location Data. 2020 , 8, 95843-95854	15
771	Adaptive computation offloading and resource allocation strategy in a mobile edge computing environment. 2020 , 537, 116-131	17
770	Analysis of High Frequency Data of a Machine Tool via Edge Computing. 2020 , 45, 343-348	3
769	A method for distribution network line selection and fault location based on a hierarchical fault monitoring and control system. 2020 , 123, 106061	8
768	An Intelligent Path Planning Scheme of Autonomous Vehicles Platoon Using Deep Reinforcement Learning on Network Edge. 2020 , 8, 99059-99069	16
767	FedStep: A Federated Transfer Learning Framework for Secure Image Steganalysis. 2020 , 1-1	16
766	Privacy and security challenges in smart and sustainable mobility. 2020 , 2, 1	6
765	Adaptive Data Replication in Real-Time Reliable Edge Computing for Internet of Things. 2020 ,	4
764	Lightweight Deep Learning Based Intelligent Edge Surveillance Techniques. 2020 , 6, 1146-1154	19
763	Edge Federation: Towards an Integrated Service Provisioning Model. 2020 , 28, 1116-1129	19
762	Cloud-Based Cyber-Physical Robotic Mobile Fulfillment Systems: A Case Study of Collision Avoidance. 2020 , 8, 89318-89336	16
761	. 2020 , 8, 100533-100541	5
760	An Architectural Study for Inference Coprocessor Core at the Edge in IoT Sensing. 2020 ,	1
759	QoE Based Revenue Maximizing Dynamic Resource Allocation and Pricing for Fog-Enabled Mission-Critical IoT Applications. 2020 , 1-1	5
758	Toward Privacy-Aware Task Allocation in Social Sensing-Based Edge Computing Systems. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 11384-11400	10.7 9

757	. 2020 , 22, 46-54	9
756	Subspace Energy Monitoring for Anomaly Detection @Sensor or @Edge. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 7575-7589	10.7 7
755	Moving Toward 5G: Significance, Differences, and Impact on Quality of Experience. 2020 , 9, 9-14	4
754	An Erasure-Coded Storage System for Edge Computing. 2020 , 8, 96271-96283	7
753	From the edge to the cloud: A continuous delivery and preparation model for processing big IoT data. 2020 , 105, 102136	7
752	Benchmarking Q-Learning Methods for Intelligent Network Orchestration in the Edge. 2020 ,	1
751	. 2020 ,	5
750	. 2020 , 5, 4423-4430	5
749	Security Issues in Fog Environment: A Systematic Literature Review. 2020 , 27, 467-483	19
748	Hierarchical Classification for Constrained IoT Devices: A Case Study on Human Activity Recognition. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 8287-8295	10.7 15
747	Representation and Reinforcement Learning for Task Scheduling in Edge Computing. 2020 , 1-1	4
746	. 2020 , 28, 1684-1697	4
745	Implementation of a Topology Independent MAC (TiMAC) Policy on a Low-Cost IoT System. 2020 , 12, 86	
744	Dynamically Reconfigurable Data Readout of Pixel Detectors for Automatic Synchronization with Data Acquisition Systems. 2020 , 20,	1
743	Lightweight edge-based kNN privacy-preserving classification scheme in cloud computing circumstance. 2020 , 32, e5804	2
742	Secure key agreement for multi-device home IoT environment. 2020 , 11, 100249	2
741	Big data analytics for smart factories of the future. 2020 , 69, 668-692	45
740	Online Scheduling Optimization for DAG-Based Requests Through Reinforcement Learning in Collaboration Edge Networks. 2020 , 8, 72985-72996	2

739	. 2020 , 27, 24-30		61
738	Reinforcement Learning-Based Optimal Computing and Caching in Mobile Edge Network. 2020 , 38, 2343-2355	11	
737	A Reconfigurable Convolutional Neural Network-Accelerated Coprocessor Based on RISC-V Instruction Set. 2020 , 9, 1005		7
736	REVAMP2T: Real-Time Edge Video Analytics for Multicamera Privacy-Aware Pedestrian Tracking. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 2591-2602	10.7	20
735	Study QoS Optimization and Energy Saving Techniques in Cloud, Fog, Edge, and IoT. 2020 , 2020, 1-16		5
734	Machine learning based fog computing assisted data-driven approach for early lameness detection in dairy cattle. 2020 , 171, 105286		27
733	In direction on dealing with timeliness in fog ecosystems: a healthcare case study. 2020 ,		
732	System delay optimization for Mobile Edge Computing. 2020 , 109, 17-28		14
731	A Systematic Review of Big Data Analytics for Oil and Gas Industry 4.0. 2020 , 8, 61183-61201		36
730	Real-time task processing for spinning cyber-physical production systems based on edge computing. 2020 , 31, 2069-2087		10
729	SAZD: A Low Computational Load Coded Distributed Computing Framework for IoT Systems. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 3640-3649	10.7	8
728	Social Network Aware Dynamic Edge Server Placement for Next-Generation Cellular Networks. 2020 ,		2
727	Deep-Reinforcement-Learning-Based Offloading Scheduling for Vehicular Edge Computing. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 5449-5465	10.7	58
726	NOMA-Assisted Machine-Type Communications in UDN: State-of-the-Art and Challenges. 2020 , 22, 1276-1304		51
725	An optimal network coding based backpressure routing approach for massive IoT network. 2020 , 26, 3657-3674		18
724	A Reliable IoT Edge Computing Trust Management Mechanism for Smart Cities. 2020 , 8, 46373-46399		26
723	Efficient Online Algorithm for Assigning Resources of Fog Computers and Communication Networks. 2020 ,		
722	LVPDA: A Lightweight and Verifiable Privacy-Preserving Data Aggregation Scheme for Edge-Enabled IoT. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 4016-4027	10.7	22

721	A comparative node evaluation model for highly heterogeneous massive-scale Internet of Things-Mist networks. 2020 , 31, e3924	2
720	Cooperative and Energy-Efficient Strategies in Emergency Navigation Using Edge Computing. 2020 , 8, 54441-54455	8
719	Fog Computing: A Comprehensive Architectural Survey. 2020 , 8, 69105-69133	36
718	On Connectivity of UAV-Assisted Data Acquisition for Underwater Internet of Things. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 5371-5385	10.7 27
717	Intelligent security and optimization in Edge/Fog Computing. 2020 , 107, 1140-1142	8
716	Satellite-Terrestrial Integrated Edge Computing Networks: Architecture, Challenges, and Open Issues. 2020 , 34, 224-231	44
715	Privacy-preserving data aggregation scheme for edge computing supported vehicular ad hoc networks. 2020 , e3952	6
714	Efficient instance reuse approach for service function chain placement in mobile edge computing. 2022 , 211, 109010	0
713	Online Scheduling Unbiased Distributed Learning over Wireless Edge Networks. 2021 ,	0
712	TSC-ECFA:A Trusted Service Composition Scheme for Edge Cloud. 2021 ,	
711	Near-Optimal Resource Allocation and Virtual Network Function Placement at Network Edges. 2021 ,	
710	Joint Optimization of Auto-Scaling and Adaptive Service Placement in Edge Computing. 2021 ,	1
709	Towards Network-accelerated ML-based Distributed Computer Vision Systems. 2021 ,	0
708	Cloud Computing and Its Impact on Industry 4.0. 2022 , 99-120	0
707	Utilizing AI Planning on the Edge. 2022 , 26, 28-35	0
706	Opportunistic Edge Computing Architecture for Smart Healthcare Systems. 2022 , 321-338	
705	A Privacy-Preserving Data Aggregation Scheme for Fog/Cloud-Enhanced IoT Applications Using a Trusted Execution Environment. 2022 ,	2
704	Resource Allocation Scheduling Algorithm Based on Incomplete Information Dynamic Game for Edge Computing. 2022 , 414-439	

703	Bridging the IoT Gap Through Edge Computing. 2022 , 381-386		
702	Lightweight Virtualization for Edge Computing. 2022 , 280-298		
701	A Constrained Static Scheduling Strategy in Edge Computing for Industrial Cloud Systems. 2022 , 681-714		
700	A Comprehensive Survey on Edge Computing for the IoT. 2022 , 564-570		
699	Mobile Edge Computing. 2022 , 354-380		
698	Edge-of-Things Computing-Based Smart Healthcare System. 2022 , 299-320		
697	Overview of Edge Computing and Its Exploring Characteristics. 2022 , 1-17		
696	Edge Architecture Integration of Technologies. 2022 , 42-65		
695	Edge Cloud. 2022 , 158-181		
694	Real-time edge computing on multi-processes and multi-threading architectures for deep learning applications. 2022 , 104554		1
693	Key technologies of cloud-edge intelligent coordination in twin basin. 2022 ,		
692	Intrusion Detection in Internet of Things Systems: A Review on Design Approaches Leveraging Multi-Access Edge Computing, Machine Learning, and Datasets. 2022 , 22, 3744		3
691	Artificial Neural Pathway Based on a Memristor Synapse for Optically Mediated Motion Learning.. 2022 ,		8
690	Bindi: Affective Internet of Things to Combat Gender-based Violence. <i>IEEE Internet of Things Journal</i> , 2022 , 1-1	10.7	1
689	Scenario-based AI Benchmark Evaluation of Distributed Cloud/Edge Computing Systems. 2022 , 1-1		1
688	Joint CB and SIC technology to optimize throughput and cost under IoV. 2022 , 1-1		1
687	Robust Design of Federated Learning for Edge-Intelligent Networks. 2022 , 1-1		
686	A Game-Theoretic Approach for Increasing Resource Utilization in Edge Computing Enabled Internet of Things. 2022 , 1-1		1

685	Computational Aspects in BSN-Based Wearable Computing Systems: From Raw-Data Collection to High-Level Data Analysis. 2022,	
684	Lightweight Neural Architecture Search for Temporal Convolutional Networks at the Edge. 2022, 1-1	1
683	LiM-HDL: HDL-Based Synthesis for In-Memory Computing. 2022,	0
682	Intersection over Union based analysis of Image detection/segmentation using CNN model. 2022,	
681	SGRM: Stackelberg Game-Based Resource Management for Edge Computing Systems. 2022,	
680	Design and Implementation of a Radioactive Source Intelligent Search Robot Based on Artificial Intelligence Edge Computing. 2022, 2022, 1-12	
679	VPFL: A verifiable privacy-preserving federated learning scheme for edge computing systems. 2022	0
678	A highly reliable cross-domain identity authentication protocol based on blockchain in edge computing environment. 2022,	0
677	Long-term Automated Visual Monitoring of Antarctic Benthic Fauna.	1
676	Research on edge nodes of substation auxiliary services based on an improved LEACH protocol. 2022, 210, 108079	
675	Battery lifespan enhancement strategies for edge computing-enabled wireless Bluetooth mesh sensor network for structural health monitoring. 2022, 140, 104355	2
674	A Computation Offloading Game for Jointly Managing Local Pre-Processing Time-Length and Priority Selection in Edge Computing. 2022, 1-1	0
673	Edge computing-assisted IoT framework with an autoencoder for fault detection in manufacturing predictive maintenance. 2022, 1-1	0
672	Edgevpn: Self-Organizing Layer-2 Virtual Edge Networks.	
671	Dynamic Time Window Intersection Scheduling Algorithm Based on RSU and High Precision Map. 2022, 113-129	
670	A Storage Resource Collaboration Model among Edge Nodes in Edge Federation Service. 2022, 1-1	0
669	A Comprehensive Study of Edge Computing and the Impact of Distributed Computing on Industrial Automation. 2022, 215-225	1
668	Towards A Trust Evaluation Framework against Malicious Behaviors of Industrial IoT. <i>IEEE Internet of Things Journal</i> , 2022, 1-1	10.7

- 667 Utilization of Fog Computing in Task Scheduling and Offloading: Modern Growth and Future Challenges. **2022**, 1
- 666 Towards a real-time tool state detection in sheet metal forming processes validated by wear classification during blanking. **2022**, 1238, 012067
- 665 Deep Reinforcement Learning Multi-Agent System for Resource Allocation in Industrial Internet of Things. **2022**, 22, 4099 1
- 664 Assisting Smart Construction With Reliable Edge Computing Technology. 10,
- 663 Edge Computing Based on Federated Learning for Machine Monitoring. **2022**, 12, 5178 1
- 662 Optimal Feature Selection with Weight Optimised Deep Neural Network for Incremental Learning-Based Intrusion Detection in Fog Environment.
- 661 Methods of transmission channel insulator detection based on deep learning model. **2022**,
- 660 Convolutional Echo-State Network with Random Memristors for Spatiotemporal Signal Classification. 2200027 1
- 659 Time and Energy optimization Scheme of Task Offloading for Single-Cell MEC-D2D Networks. **2022**,
- 658 Lightweight anonymous authentication and key agreement protocols for mobile edge computing.
- 657 Benchmarking Object Detection Deep Learning Models in Embedded Devices. **2022**, 22, 4205 1
- 656 Latency minimization for IRS-assisted mobile edge computing networks. **2022**, 101768
- 655 Task-aware swapping for efficient DNN inference on DRAM-constrained edge systems.
- 654 From ideas to entrepreneurial opportunity: A study on AI.
- 653 On Delivering Cloud-Network Slicing Networking and Service Management Through EDCS Slice Granularity Monitoring.
- 652 Workload-optimized sensor data store for industrial IoT gateways. **2022**, 135, 394-408 0
- 651 Deployment Archetypes for Cloud Applications. **2023**, 55, 1-48 1
- 650 High-speed Train Intelligent Maintenance Pattern and Edge-computing Perception Model. **2021**,

649	Characterization and Implication of Edge WebAssembly Runtimes. 2021,	0
648	Towards Large-Scale Hybrid Edge Server Provision: An Online Mean Field Learning Approach. 2022, 1-1	
647	Dynamic Reliability Management of Multi-Gateway IoT Edge Computing Systems. <i>IEEE Internet of Things Journal</i> , 2022, 1-1	10.7 1
646	Reliable Task Offloading Mechanism Based on Trusted Rsu Service for Internet of Vehicles.	
645	Edge Computing-Enabled Internet of Vehicles: Towards Federated Learning Empowered Scheduling. 2022, 1-17	2
644	Edge Computing Technology Enablers: A Systematic Lecture Study. 2022, 1-1	1
643	Edge-Assisted IoT Architecture: A Case of Air Pollution Monitoring Frameworks. 2022, 244-256	
642	Collective Intelligence using 5G: Concepts, Applications, and Challenges in Sociotechnical Environments. 2022, 1-1	1
641	Industrial Internet of Things: Requirements, Architecture, Challenges, and Future Research Directions. 2022, 1-1	3
640	LM-CNN: A Cloud-Edge Collaborative Method for Adaptive Fault Diagnosis With Label Sampling Space Enlarging. 2022, 1-11	0
639	Industry 4.0 Driven Supply Chains Technological Advancements Regarding Logistics Service Providers. 2022, 151-205	
638	High-Efficiency Data Conversion Interface for Reconfigurable Function-in-Memory Computing. 2022, 1-14	1
637	Adaptive Partition of ECG Diagnosis Between Cloud and Wearable Sensor Net Using Open-Loop and Closed-Loop Switch Mode. 2022, 10, 63684-63697	0
636	DSOS: A Distributed Secure Outsourcing System for Edge Computing Service in IoT. 2022, 1-13	
635	Exploring the dichotomy on opportunities and challenges of smart technologies in healthcare systems. 2022, 1-24	
634	A New Approach to Accelerate Edge Computing Process Based on Multi-User Computation Offloading. 2022,	
633	A review of fog computing and its simulators. 2022, 25, 745-756	
632	Federated Learning Driven Secure Internet of Medical Things. 2022, 29, 68-75	2

631	Facial Recognition Using Edge-Driven Biometric System. 2022,	
630	Specification and Operation of Privacy Models for Data Streams on the Edge. 2022,	0
629	Learning for Robust Combinatorial Optimization: Algorithm and Application. 2022,	
628	MoDEMS: Optimizing Edge Computing Migrations for User Mobility. 2022,	2
627	Joint Resource Management and Flow Scheduling for SFC Deployment in Hybrid Edge-and-Cloud Network. 2022,	1
626	Utilization of DCT Coefficients for the Classification of Standard Datasets in Cloud/Edge Computing Environment. 2022,	1
625	A Review on Edge-Computing: Challenges in Security and Privacy. 2022,	
624	Intelligent Task Dispatching and Scheduling Using a Deep Q-Network in a Cluster Edge Computing System. 2022, 22, 4098	0
623	Decentralized Task Offloading in Edge Computing: A Multi-User Multi-Armed Bandit Approach. 2022,	0
622	EdgeMatrix: A Resources Redefined Edge-Cloud System for Prioritized Services. 2022,	1
621	Multimodal Federated Learning on IoT Data. 2022,	3
620	DHT-based Edge and Fog Computing Systems: Infrastructures and Applications. 2022,	0
619	EdgeTuner: Fast Scheduling Algorithm Tuning for Dynamic Edge-Cloud Workloads and Resources. 2022,	1
618	Optimal Rate Adaption in Federated Learning with Compressed Communications. 2022,	1
617	Deep learning in hospitality and tourism: a research framework agenda for future research.	0
616	Edge Computing in Wireless Sensing Applications. 2022,	
615	Game-Theory-Based Task Offloading and Resource Scheduling in Cloud-Edge Collaborative Systems. 2022, 12, 6154	
614	Ubiquitous Power Internet of Things-Oriented Low-Latency Edge Task Scheduling Optimization Strategy. 10,	

613	Edge AI and Blockchain for Smart Sustainable Cities: Promise and Potential. 2022 , 14, 7609	3
612	Internet of Things data management: A systematic literature review, vision, and future trends.	
611	Towards 6G Internet of Things: Recent advances, use cases, and open challenges. 2022 ,	6
610	Imperative Role of Technology Intervention and Implementation for Automation in the Construction Industry. 2022 , 2022, 1-19	1
609	Embedded intelligence and the data-driven future of application-specific Internet of Things for smart environments. 2022 , 18, 155013292211023	1
608	An Edge-Fog Architecture for Distributed 3D Reconstruction and Remote Monitoring of a Power Plant Site in the Context of 5G. 2022 , 22, 4494	
607	Secure Olympics Games with Technology: Intelligent Border Surveillance for the 2022 Beijing Winter Olympics. 2022 , 102634	1
606	An Energy-Efficient Partial Data Offloading-Based Priority Rate Controller Technique in Edge-Based IoT Network to Improve QoS. 2022 , 2022, 1-10	
605	An Efficient Delay Tolerance and Cost-Effective Secure NFV Enabled Multi-casting in Mobile Edge Cloud Networks.	
604	Industrial Needs in the Fields of Artificial Intelligence, Internet of Things and Edge Computing. 2022 , 22, 4501	
603	Self-powered sensing systems with learning capability. 2022 ,	2
602	Edge artificial intelligence camera network: an efficient object detection and tracking framework. 2022 , 31,	
601	Video-zilla: An Indexing Layer for Large-Scale Video Analytics. 2022 ,	
600	ChevroCrypto [Security & Cryptography Broker. 2022 ,	0
599	Joint wireless resource allocation and service function chaining scheduling for Tactile Internet. 2022 , 109113	
598	Aggregated Boolean Query Processing for Document Retrieval in Edge Computing. 2022 , 11, 1908	0
597	Convergence of Information-Centric Networks and Edge Intelligence for IoV: Challenges and Future Directions. 2022 , 14, 192	1
596	Privacy-Aware Task Assignment for IoT Audit Applications on Collaborative Edge Devices. 2022 , 2022, 1-15	0

- 595 WebAssembly as a Common Layer for the Cloud-edge Continuum. **2022**, 2
- 594 Better Memorization, Better Recall: A Lifelong Learning Framework for Remote Sensing Image Scene Classification. **2022**, 1-1 1
- 593 A Novel Evaluation Model of Data Security Protection Capability in Edge Computing Environment. **2022**, 556-565
- 592 Design and Research of M2M Message Transfer Mechanism of Looms for Information Transmission. **2022**, 1-1
- 591 Integrating Edge Intelligence and Blockchain: What, Why, and How. **2022**, 1-1 2
- 590 Integrated Sensing and Communication: Enabling Techniques, Applications, Tools and Datasets, Standardization, and Future Directions. *IEEE Internet of Things Journal*, **2022**, 1-1 10.7 2
- 589 SCESP: An Edge Server Placement Method Based on Spectral Clustering in Mobile Edge Computing. **2022**, 527-539
- 588 Task Offloading Decision Algorithm for Vehicular Edge Network Based on Multi-dimensional Information Deep Learning. **2022**, 143-154
- 587 Migration Model for Distributed Server Allocation. **2022**,
- 586 Lightweight Blockchain-Based Architecture for 5g Enabled Iot.
- 585 QSFM: Model Pruning Based on Quantified Similarity between Feature Maps for AI on Edge. *IEEE Internet of Things Journal*, **2022**, 1-1 10.7 1
- 584 Distributed Location-Aware Task Offloading in Multi-UAVs Enabled Edge Computing. **2022**, 10, 72416-72428 1
- 583 Introduction to Federated Learning Systems. **2022**, 195-212
- 582 PTAC: Privacy-Preserving Time and Attribute Factors Combined Cloud Data Access Control with Computation Outsourcing. **2022**, 540-555
- 581 Integrating Sensing, Computing, and Communication in 6G Wireless Networks: Design and Optimization. **2022**, 1-1 1
- 580 ElasticEdge: An Intelligent Elastic Edge Framework for Live Video Analytics. *IEEE Internet of Things Journal*, **2022**, 1-1 10.7
- 579 Development of Smart Sensor for IoT Based Environmental Data Analysis Through Edge Computing. **2022**, 1-10
- 578 Computation Offloading in Edge Computing Based on Deep Reinforcement Learning. **2022**, 339-353 0

577 Emerging Technologies. **2022**, 41-190

576 Intelligent Data Analysis System Based on Edge Computing. **2022**, 76-89

575 Machine Learning in Event-Triggered Control: Recent Advances and Open Issues. **2022**, 1-1

574 Edge-Artificial Intelligence-Powered Parking Surveillance With Quantized Neural Networks. **2022**, 2-16 2

573 Optimization of task unloading strategy based on Game Theory in cloud edge collaborative system. **2022**,

572 Accelerated Machine Learning for On-Device Hardware-Assisted Cybersecurity in Edge Platforms. **2022**, 0

571 Semantically Rich Access Control in Cloud EHR Systems Based on MA-ABE. **2022**, 1

570 DEAN: A Lightweight and Resource-efficient Blockchain Protocol for Reliable Edge Computing. **2022**,

569 A Review on Optimisation Strategies for Cloud Computing Technologies. **2022**,

568 Novel Adaptive DNN Partitioning Method Based on Image-Stream Pipeline Inference between the Edge and Cloud. **2022**,

567 Dynamic Computation Offloading for Green Things-Edge-Cloud Computing with Local Caching. **2022**,

566 A unifying model for distributed data-intensive systems. **2022**, 0

565 The Vision-Based Data Reader in IoT System for Smart Factory. **2022**, 12, 6586 1

564 An approach of multi-objective computing task offloading scheduling based NSGS for IOV in 5G. 2

563 Dynamic Pricing Scheme for Edge Computing Services: A Two-layer Reinforcement Learning Approach. **2022**,

562 The Hitchhiker's Guide to Fused Twins: A Review of Access to Digital Twins In Situ in Smart Cities. **2022**, 14, 3095 1

561 A Comprehensive System for Smart Homes with a Minimalist Information Security Framework. **2023**, 401-411

560 Reuse of Client Models in Federated Learning. **2022**,

- 559 Edge Computing Based Electricity-Theft Detection of Low-Voltage Users. 10,
- 558 Security and Privacy Issues in the Internet of Things. **2022**, 70-91
- 557 Fog-Edge Collaborative Task Offloading Strategy Based on Chaotic Teaching and Learning Particle Swarm Optimization. **2022**, 2022, 1-21 0
- 556 Intelligent computation offloading for educational virtual reality applications in smart campus using MoCell.
- 555 Service Placement and User Assignment in Multi-Access Edge Computing with Base-Station Failure. **2022**,
- 554 Reaching for the Sky: Maximizing Deep Learning Inference Throughput on Edge Devices with AI Multi-tenancy.
- 553 Paradigms for the conceptualization of Cyber-Physical-Social-Thinking hyperspace: A Thematic Synthesis. **2022**, 1-32 1
- 552 Latency-aware Computation Offloading and DQN-based Resource Allocation Approaches in SDN-enabled MEC. **2022**, 102950
- 551 Cost research of Internet of Things service architecture for random mobile users based on edge computing.
- 550 Evolution in Computing Paradigms for Internet of Things-Enabled Smart Grid Applications: Their Contributions to Power Systems. **2022**, 8, 8-20
- 549 PECCO: A profit and cost-oriented computation offloading scheme in edge-cloud environment with improved Moth-flame optimization. 0
- 548 RESEKRA: Remote Enrollment Using SEaled Keys for Remote Attestation. **2022**, 22, 5060 1
- 547 Low power and high I/O efficiency hybrid memory for Internet of Things edge devices. **2022**, 105517
- 546 Design of IoT Gateway for Crop Growth Environmental Monitoring Based on Edge-Computing Technology. **2022**, 2022, 1-13 1
- 545 Solving Task Scheduling Problems in Dew Computing via Deep Reinforcement Learning. **2022**, 12, 7137 1
- 544 Eye-Tracking Technologies in Mobile Devices Using Edge Computing: A Systematic Review.
- 543 Resource allocation for MEC system with multi-users resource competition based on deep reinforcement learning approach. **2022**, 109181 1
- 542 Dynamic computation offloading for ground and flying robots: Taxonomy, state of art, and future directions. **2022**, 45, 100488 1

- 541 Cross-camera tracking of vehicle loads based on deep metric learning and edge computing. **2022**, 199, 111578
- 540 The big picture on the internet of things and the smart city: a review of what we know and what we need to know. **2022**, 19, 100565 3
- 539 Multi-Complexity-Loss DNAs for Energy-Efficient and Memory-Constrained Deep Neural Networks. **2022**,
- 538 A joint function warm-up and request routing scheme for performing confident serverless computing. **2022**, 2, 100071 0
- 537 Use of regional computing to minimize the social big data effects. **2022**, 171, 108433 1
- 536 Task offloading in fog computing: A survey of algorithms and optimization techniques. **2022**, 214, 109137 2
- 535 Intelligent energy and ecosystem for real-time monitoring of glaciers. **2022**, 102, 108163 1
- 534 Secure and efficient multifunctional data aggregation without trusted authority in edge-enhanced IoT. **2022**, 69, 103270
- 533 Edge intelligence-driven digital twin of CNC system: Architecture and deployment. **2023**, 79, 102418 1
- 532 Single ship target detection based on the concept of edge computing. **2021**,
- 531 Joint Radio Map Construction and Dissemination in MEC Networks: A Deep Reinforcement Learning Approach. **2022**, 2022, 1-12
- 530 Ephemeral data handling in microservices with Tquery. 8, e1037
- 529 Non-intrusive Load Monitoring Using Gramian Angular Field Color Encoding in Edge Computing. **2022**, 31, 595-603 1
- 528 A Federated Learning-Based Fault Detection Algorithm for Power Terminals. **2022**, 2022, 1-10 0
- 527 ES-PPDA: an efficient and secure privacy-protected data aggregation scheme in the IoT with an edge-based XaaS architecture. **2022**, 11,
- 526 Secure Distributed Data Integrity Auditing with High Efficiency in 5G-enabled Software-Defined Edge Computing. **2022**, 100004
- 525 Online scheduling algorithms for unbiased distributed learning over wireless edge networks. **2022**, 102673 0
- 524 Edge computing. 0

- 523 Energy-Efficient Service Placement Based on Equivalent Bandwidth in Cell Zooming Enabled Mobile Edge Cloud Networks. **2022**, 1-16
- 522 Disease Prediction in Edge Computing: A Privacy-Preserving Technique for PHI Collection and Analysis. **2022**, 1-7
- 521 Edge Computing Approach For Crowd Sensed Environmental Noise Data Mapping. **2022**,
- 520 Toward A Decentralized, Trustworthy and Fair Vehicle Resource Sharing as a Service: Key Technologies and Challenges. **2022**,
- 519 Fast Adaptive Similarity Search through Variance-Aware Quantization. **2022**, 2
- 518 Edge-Based NILM System with MDMR Filter-Based Feature Selection. **2022**, 0
- 517 Efficient and error-bounded spatiotemporal quantile monitoring in edge computing environments. **2022**, 15, 1753-1765 0
- 516 Secure and Authorized Client-to-Client Communication for LwM2M. **2022**,
- 515 Traffic Data Scheduling of Frequent Application Sets for Task Offloading in Multi-access Edge Computing. **2022**,
- 514 Mobility-Aware Computation Offloading with Adaptive Load Balancing in Small-Cell MEC. **2022**,
- 513 A computing-aware routing protocol for Computing Force Network. **2022**,
- 512 Towards supervised real-time human activity recognition on embedded equipment. **2022**,
- 511 Edgelet Computing: Pushing Query Processing and Liability at the Extreme Edge of the Network. **2022**,
- 510 Grid Division-Based Service Migration Path Selection Method in Edge Computing Environment. **2022**,
- 509 Automating Edge-to-cloud Workflows for Science: Traversing the Edge-to-cloud Continuum with Pegasus. **2022**, 0
- 508 Multi-leader Multi-follower Stackelberg Game based Resource Allocation in Multi-access Edge Computing. **2022**,
- 507 KneeScale: Efficient Resource Scaling for Serverless Computing at the Edge. **2022**, 0
- 506 C-LSTM: CNN and LSTM Based Offloading Prediction Model in Mobile Edge Computing (MEC). **2022**, 0

- 505 Architectural Tactics to Optimize Software for Energy Efficiency in the Public Cloud. **2022,**
- 504 Federating EdgeNet with Fed4FIRE+ and Deploying its Nodes Behind NATs. **2022,**
- 503 Memory Efficient Binary Convolutional Neural Networks on Microcontrollers. **2022,**
- 502 A Real-Time Monitoring and Warning System for Power Grids Based on Edge Computing. **2022,**
2022, 1-8
- 501 Federated Split Learning Model for Industry 5.0: A Data Poisoning Defense for Edge Computing. **2022,** 11, 2393 0
- 500 Bring Trust to Edge: Secure and Decentralized IoT Framework with BFT and Permissioned Blockchain. **2022,**
- 499 A Comprehensive Review on Intrusion Detection in Edge-Based IoT Using Machine Learning. **2023,** 615-624
- 498 Deep Model-Based Security-Aware Entity Alignment Method for Edge-Specific Knowledge Graphs. **2022,** 14, 8877 0
- 497 A Survey on the combined use of IoT and Edge AI to improve Driver Monitoring systems. **2022,**
- 496 Keyword Spotting with Deep Neural Network on Edge Devices. **2022,** 0
- 495 IIoT Malware Detection Using Edge Computing and Deep Learning for Cybersecurity in Smart Factories. **2022,** 12, 7679 2
- 494 Privacy-preserving method of edge computing based on secret sharing and homomorphic encryption. **2022,**
- 493 An intelligent Face Recognition Technology for IoT based Smart City Application using Condition-CNN with Foraging Learning PSO Model.
- 492 Deep Q-Network Driven Task Offloading for Efficient Multimedia Data Analysis in Edge Computing Assisted IoV. 0
- 491 Comparative Analysis of Indexing Schemes Used in Cloud Computing Data Management. **2022,** 135-158
- 490 Machine Learning for Intelligent-Reflecting-Surface-Based Wireless Communication towards 6G: A Review. **2022,** 22, 5405 4
- 489 Mitigating 5G security challenges for next-gen industry using quantum computing. **2022,** 0
- 488 Design and Implementation of an HCPS-Based PCB Smart Factory System for Next-Generation Intelligent Manufacturing. **2022,** 12, 7645 1

- 487 Edge Computing Network Ecosystem Based on Blockchain. **2022**,
- 486 Energy-Efficient Resource Sharing Offloading Schemes for Collaborative Edge-Cloud Computing in Optical-Wireless Networks. **2022**,
- 485 The future of computing paradigms for medical and emergency applications. **2022**, 45, 100494 0
- 484 Edge Intelligence in Smart Grids: A Survey on Architectures, Offloading Models, Cyber Security Measures, and Challenges. **2022**, 11, 47 1
- 483 Edge Computing with Artificial Intelligence: A Machine Learning Perspective. 2
- 482 Scheduling optimization for upstream dataflows in edge computing. **2022**,
- 481 Vertical Metal-Oxide Electrochemical Memory for High-Density Synaptic Array Based High-Performance Neuromorphic Computing. **2022**, 8, 2200378 1
- 480 A dynamic decentralized strategy of replica placement on edge computing. **2022**, 18, 155013292211150 0
- 479 Deep Reinforcement Learning Based Resource Allocation Strategy in Cloud-Edge Computing System. 10,
- 478 Design and implementation of 5G network user interface function selection method based on knowledge map. **2022**,
- 477 Deep learning model based multimedia retrieval and its optimization in augmented reality applications.
- 476 A Primer on the Factories of the Future. **2022**, 22, 5834 0
- 475 Engineering Brain: Metaverse for future engineering. **2022**, 1, 2
- 474 EnforceSNN: Enabling resilient and energy-efficient spiking neural network inference considering approximate DRAMs for embedded systems. 16, 0
- 473 Theater Music Data Acquisition and Genre Recognition Using Edge Computing and Deep Brief Network. **2022**, 2022, 1-6
- 472 ROGI: Partial Computation Offloading and Resource Allocation in the Fog-Based IoT Network Towards Optimizing Latency and Power Consumption. 0
- 471 Tag Estimation Method for ALOHA RFID System Based on Machine Learning Classifiers. **2022**, 11, 2605 0
- 470 Edge-Computing-Driven Internet of Things: A Survey. 2

469	Platform Design of Psychological Teaching Classroom Evaluation Based on Mobile Edge Computing Resource Allocation. 2022 , 2022, 1-10	
468	Towards Efficient Full 8-bit Integer DNN Online Training on Resource-limited Devices without Batch Normalization. 2022 ,	
467	Functional Modeling-Based Digital Twin Architecture Representation: An Instructional Example of a COVID-19 Breathalyzer Kiosk. 2022 , 144,	
466	DPMA: a distributed profit-based placement scheme for multi-sp mobile edge computing.	
465	A Brief Review of Deep Neural Network Implementations for ARM Cortex-M Processor. 2022 , 11, 2545	1
464	Delay-sensitive Task offloading combined with Bandwidth Allocation in Multi-access Edge Computing. 2022 ,	
463	Improved MobileNetV2-SSDLite for automatic fabric defect detection system based on cloud-edge computing. 2022 , 201, 111665	1
462	A comprehensive bibliometric analysis and visualization of smart home research. 2022 , 184, 121975	1
461	Edge and Fog Computing Business Value Streams through IoT Solutions: A Literature Review for Strategic Implementation. 2022 , 13, 427	0
460	Edge-SLAM: Edge-Assisted Visual Simultaneous Localization and Mapping.	0
459	Towards explainable AI for hyperspectral image classification in Edge Computing environments. 2022 , 103, 108381	1
458	Representation model and cloud-based orchestrator for pervasive storytelling. 2022 ,	0
457	A novel multidimensional trust evaluation and fusion mechanism in fog-based Internet of Things. 2022 , 217, 109354	0
456	Pricing-based resource allocation in three-tier edge computing for social welfare maximization. 2022 , 217, 109311	0
455	Intelligent Traffic Scheduling for Mobile Edge Computing in IoT via Deep Learning. 2023 , 134, 1815-1835	0
454	Providing Aerial MEC Service in Areas Without Infrastructure: a Tethered-UAV-Based Energy-Efficient Task Scheduling Framework. 2022 , 1-1	0
453	Active Reconfigurable Intelligent Surface for Mobile Edge Computing. 2022 , 1-1	0
452	Delay and QoS Aware Low Complex Optimal Service Provisioning for Edge Computing. 2022 , 1-15	0

451	Cloud and Fog Computing. 2022 , 343-365	0
450	A Proposal for FPGA-Accelerated Deep Learning Ensembles in MPSoC Platforms Applied to Malware Detection. 2022 , 239-249	0
449	An Anonymous and Outsourcing-Supported Multiauthority Access Control Scheme With Revocation for Edge-Enabled IIoT System. 2022 , 1-12	0
448	Security in Internet of Things: A Review. 2022 , 1-1	2
447	Applications of IoT and Cloud Computing: A COVID-19 Disaster Perspective. 2022 , 287-322	0
446	A Survey on Observability of Distributed Edge & Container-Based Microservices. 2022 , 10, 86904-86919	1
445	Privacy Protection of Edge Computing Using Homomorphic Encryption. 2022 , 395-407	0
444	GASE: A Lightweight Group Authentication Scheme with Key Agreement for Edge Computing Applications. 2022 , 1-1	0
443	Edge Computing-Assisted DNN Image Recognition System With Progressive Image Retransmission. 2022 , 10, 91253-91262	0
442	Smart Parking Lot based on Edge Cluster Computing for Full Self-Driving Vehicles. 2022 , 1-1	0
441	Federated Learning at Mobile Edge Networks: A Tutorial. 2022 , 1-51	0
440	Motivations for Integrating Edge Intelligence with Blockchain. 2022 , 33-41	0
439	HW/SW Acceleration of Multiple Workloads Within the SERRANO Computing Continuum. 2022 , 394-405	0
438	Serverless Platforms on the Edge: A Performance Analysis. 2022 , 165-184	2
437	A Retrospective on Workload Identifiers: From Data Center to Cloud-Native Networks. 2022 , 1-1	0
436	Digital Twin Driven End-Face Defect Control Method for Hot-rolled Coil With Cloud-Edge Collaboration. 2022 , 1-9	1
435	Edge Computing for Internet of Everything: A Survey. 2022 , 1-1	5
434	Real-Time Data Analytics in Internet of Things Systems. 2022 , 541-568	0

- 433 CEBPM: A Cloud-Edge Collaborative Non-Contact Blood Pressure Estimation Model. **2022**, 1-1 ○
- 432 Low-Overhead Early-Stopping Policies for Efficient Random Forests Inference on Microcontrollers. **2022**, 25-47 ○
- 431 Evolutionary Edge Association and Auction in Hierarchical Federated Learning. **2022**, 117-145 ○
- 430 Evaluating the Performance of Monolithic and Microservices Architectures in an Edge Computing Environment. **2022**, 5, 1-18 ○
- 429 Edge Workloads Monitoring and Failover: a StarlingX-Based Testbed Implementation and Measurement Study. **2022**, 10, 97101-97116 ○
- 428 Joint Task Offloading and Resource Allocation for Cooperative Mobile Edge Computing under Sequential Task Dependency. **2022**, 1-1 1
- 427 Preference-Aware Computation Offloading for IoT in Multi-access Edge Computing Using Probabilistic Model Checking. **2022**, 275-297 ○
- 426 An Overview of Wearable Biosensor Systems for Real-Time Substance Use Detection. **2022**, 1-1 ○
- 425 Dynamic Offloading Strategy for Delay Sensitive Task in Mobile Edge Computing Networks. **2022**, 1-1 ○
- 424 FedRUL: A New Federated Learning Method for Edge-Cloud Collaboration Based Remaining Useful Life Prediction of Machines. **2022**, 1-10 1
- 423 Elastic Container Scheduling for Stochastically Arrived Workflows in Cloud and Edge Computing. **2022**, 44-58 ○
- 422 Preliminary Design of an AI Service to Assist Self-regulated Learning by Edge Computing. **2022**, 577-581 ○
- 421 Improving Cached Data Offloading Optimization Based on Enhanced Hybrid Ant Colony Genetic Algorithm. **2022**, 10, 84558-84568 ○
- 420 Fusion of IoT, AI, Edge-Fog-Cloud, and Blockchain: Challenges, Solutions, and a Case Study in Healthcare and Medicine. **2022**, 1-1 ○
- 419 Multi-server Intelligent Task Caching Strategy for Edge Computing. **2022**, ○
- 418 ICU4SAT: A General-Purpose Reconfigurable Instrument Control Unit Based on Open Source Components. **2022**, ○
- 417 OptiMaP: swarm-powered Optimized 3D Mapping Pipeline for emergency response operations. **2022**, ○
- 416 Design and Implementation of Load Balancing Module of Substation Intelligent Gateway under Multi-service Access. **2022**, ○

- 415 Design of Intelligent Video Monitoring System Based on Edge Cloud Collaboration. **2022**, 0
- 414 Real-Time Low Power Audio Distortion Circuit Modeling: a TinyML Deep Learning Approach. **2022**, 0
- 413 Securing Distributed Data Mechanism Based On Blockchain Technology. **2022**, 0
- 412 YeSQL. **2022**, 15, 2270-2283 3
- 411 Feasibility Study of Artificial Intelligence Technology for Home Video Surveillance System. **2022**, 0
- 410 Deep Reinforcement Learning Based Resource Allocation Strategy in Cloud-Edge Computing System. **2022**, 0
- 409 Performance optimization of serverless edge computing function offloading based on deep reinforcement learning. **2023**, 139, 74-86 0
- 408 Engage: Session Guarantees for the Edge. **2022**, 0
- 407 Accuracy Evaluation of Transposed Convolution-Based Quantized Neural Networks. **2022**, 0
- 406 DNN Real-Time Collaborative Inference Acceleration with Mobile Edge Computing. **2022**, 0
- 405 IoT Data Compression and Optimization Techniques in Cloud Storage. **2022**, 702-720 0
- 404 Less is more: Low-precision feature selection for wearables. **2022**, 0
- 403 History-Assisted Online User Allocation in Mobile Edge Computing. **2022**, 0
- 402 Research on Lightweight Blockchain Technology Based on Edge Computing. **2022**, 0
- 401 Real-World Computer Vision for Real-World Applications: Challenges and Directions. **2023**, 727-750 0
- 400 An Efficient Computation Offloading Approach in Multi-access Edge Computing Using Deep Reinforcement Learning. **2022**, 0
- 399 Building Integrated Photovoltaics 4.0: Digitization of the Photovoltaic Integration in Buildings for a Resilient Infra at Large Scale. **2022**, 11, 2700 0
- 398 A VANTAGEM COMPETITIVA DAS EMPRESAS CLEANTECHS E O DESENVOLVIMENTO DE CAPACIDADES DINMICAS UTILIZANDO INTERNET DAS COISAS. **2022**, 28, 455-486 0

- 397 QoE-Aware User Allocation in Edge Computing Systems for Popular Services. **2022**, ○
- 396 Scalable and Bounded-time Decisions on Edge Device Network using Eclipse Zenoh. **2022**, ○
- 395 SQLite. **2022**, 15, 3535-3547 ○
- 394 Adaptive Acceleration of Inference Services at the Network Edge. **2022**, ○
- 393 A Literature Review of the Challenges and Opportunities of the Transition from Industry 4.0 to Society 5.0. **2022**, 15, 6276 9
- 392 Evolution of Attacks on Intelligent Surveillance Systems and Effective Detection Techniques. ○
- 391 Load Balance Traffic Scheduling for Live Streaming Services in Edge. **2022**, ○
- 390 Lightweight CNN-Based Deep Neural Networks Application in Safety Measurement. **2022**, ○
- 389 HWOA: an intelligent hybrid whale optimization algorithm for multi-objective task selection strategy in edge cloud computing system. **2022**, 25, 2265-2295 ○
- 388 Improving makespan in dynamic task scheduling for cloud robotic systems with time window constraints. ○
- 387 Scalable Dew Computing. **2022**, 12, 9510 ○
- 386 FedMSA: A Model Selection and Adaptation System for Federated Learning. **2022**, 22, 7244 ○
- 385 Online data caching in edge-cloud collaborative system with the data center. ○
- 384 A dark and stormy night: Reallocation storms in edge computing. **2022**, 2022, ○
- 383 Fractal Parallel Computing. **2022**, 2022, 1-10 ○
- 382 A variational inference based learning approach for decentralized building fire estimation. **2022**, 105310 ○
- 381 SCOTT: Scheduling of Comprehensive Objectives for Tasks with Multitargets in Computing Networks. **2022**, 2022, 1-17 ○
- 380 Analysis on Resource Allocation at Edge using Federated Fuzzy Learning with Artificial Neural Network. ○

- 379 Edge Computing on IoT. **2022**, 67-97 ○
- 378 Container Orchestration in Edge and Fog Computing Environments for Real-Time IoT Applications. **2023**, 1-21 ○
- 377 Edge-Computing Meshed Wireless Acoustic Sensor Network for Indoor Sound Monitoring. **2022**, 22, 7032 1
- 376 Computation Offloading Scheme Classification Using Cloud-Edge Computing for Internet of Vehicles (IoV). **2023**, 459-485 ○
- 375 Performance Analysis of Storage Systems in Edge Computing Infrastructures. **2022**, 12, 8923 ○
- 374 Towards Efficient Edge Computing Through Adoption of Reinforcement Learning Strategies: A Review. **2023**, 245-263 ○
- 373 Implementation of a software defined FLISR solution on an active distribution grid. 1, 142 ○
- 372 Cloud-Edge-Terminal-Based Synchronized Decision-Making and Control System for Municipal Solid Waste Collection and Transportation. **2022**, 10, 3558 ○
- 371 A privacy-preserving data collection scheme for smart agriculture based on edge blockchain. **2022**, ○
- 370 Joint computation offloading and parallel scheduling to maximize delay-guarantee in cooperative MEC systems. **2022**, ○
- 369 Dynamic visual SLAM and MEC technologies for B5G: a comprehensive review. **2022**, 2022, ○
- 368 A Survey and Challenges: Embedded System on IoT. **2023**, 113-129 ○
- 367 Availability-aware Provision of Service Function Chains in Mobile Edge Computing. ○
- 366 Using machine learning to analyze longitudinal data: A tutorial guide and best-practice recommendations for social science researchers. ○
- 365 Distributed Logistics Resources Allocation with Blockchain, Smart Contract, and Edge Computing. ○
- 364 Software and hardware co-design and implementation of intelligent optimization algorithms. **2022**, 129, 109639 ○
- 363 A data collection and supplementary control platform of a modern building for smart energy applications. **2022**, 32, 100928 ○
- 362 Scalable Edge Computing Environment Based on the Containerized Microservices and Minikube. **2022**, 14, 1-14 ○

361	Blive. 2022 , 12, 1-22	o
360	A Lightweight YOLOv4-EDAM Model for Accurate and Real-time Detection of Foreign Objects Suspended On Power Lines. 2022 , 1-12	o
359	Dynamic Computation Offloading for Energy Efficiency in Mobile Edge Computing. 2022 , 27-60	o
358	Model-Driven Engineering in Digital Thread Platforms: A Practical Use Case and Future Challenges. 2022 , 195-207	o
357	ECCVideo: A Scalable Edge Cloud Collaborative Video Analysis System. 2022 , 1-9	o
356	Model-Driven Edge Analytics: Practical Use Cases in Smart Manufacturing. 2022 , 406-421	1
355	Real-Time Dynamic Map with Crowdsourcing Vehicles in Edge Computing. 2022 , 1-10	o
354	Multiple-dimension Biohealth Data Acquisition System for 5G Tele-healthcare Application. 2022 , 1-9	o
353	Edge Computing Based Autonomous Robot for Secured Industrial IoT. 2022 ,	o
352	A Game Theoretical Balancing Approach for Offloaded Tasks in Edge Datacenters. 2022 ,	o
351	A Complete Framework for the Smart City through Artificial Intelligence. 2022 ,	o
350	A Digital-Twin Based Architecture for Software Longevity in Smart Homes. 2022 ,	o
349	A QoS-aware, Proactive Tasks Offloading Model for Pervasive Applications. 2022 ,	o
348	EaaS: A Service-Oriented Edge Computing Framework Towards Distributed Intelligence. 2022 ,	1
347	Deep Learning on FPGAs with Multiple Service Levels for Edge Computing. 2022 ,	o
346	Designing a Deep Q-Learning Model with Edge-Level Training for Multi-Level Task Offloading in Edge Computing Networks. 2022 , 12, 10664	o
345	Journey from cloud of things to fog of things: Survey, new trends, and research directions.	o
344	Link-Aware Frame Selection for Efficient License Plate Recognition in Dynamic Edge Networks. 2022 , 11, 3186	o

- 343 Analysis of distributed ledger technologies for industrial manufacturing. **2022**, 12, 0
- 342 Architecting Optically-Controlled Phase Change Memory. 1
- 341 An Offloading Algorithm for Maximizing Inference Accuracy on Edge Device in an Edge Intelligence System. **2022**, 0
- 340 A Literature Review Research on Monitoring Conditions of Mechanical Equipment Based on Edge Computing. **2022**, 2022, 1-10 0
- 339 Manipulating vulnerability: Poisoning attacks and countermeasures in federated cloud-edge-client learning for image classification. **2022**, 110072 0
- 338 All-atomristor logic gates. 0
- 337 Clean-label poisoning attacks on federated learning for IoT. 0
- 336 Many-to-Many Data Aggregation Scheduling Based on Multi-Agent Learning for Multi-Channel WSN. **2022**, 11, 3356 0
- 335 Container-based task scheduling in cloud-edge collaborative environment using priority-aware greedy strategy. 0
- 334 FPSA-SMS: first price sealed auction-based service migration strategy in mobile edge computing. 0
- 333 AIBot: A Novel Botnet Capable of Performing Distributed Artificial Intelligence Computing. **2022**, 11, 3241 0
- 332 An edge-aware-oriented semantic association retrieval method for industrial data. **2022**, 0
- 331 Deep Learning and 5G and Beyond for Child Drowning Prevention in Swimming Pools. **2022**, 22, 7684 0
- 330 Vehicle Computing: Vision and Challenges. **2022**, 0
- 329 Resource management at the network edge for federated learning. **2022**, 0
- 328 Edge emotion recognition: applying fast Fourier transform on speech Mel spectrograms to classify emotion on a Raspberry Pi for near real-time analytics. 0
- 327 Integration of blockchain and edge computing in internet of things: A survey. **2022**, 0
- 326 An intelligent edge-enabled distributed multi-task learning architecture for large-scale IoT-based cyber-physical systems. **2022**, 102685 1

325	Enhancing wisdom manufacturing as industrial metaverse for industry and society 5.0.	0
324	On-device context-aware misuse detection framework for heterogeneous IoT edge.	0
323	Evaluation and comparison of federated learning algorithms for Human Activity Recognition on smartphones. 2022 , 87, 101714	0
322	Ubiquitous and smart healthcare monitoring frameworks based on machine learning: A comprehensive review. 2022 , 134, 102431	2
321	Task assignment for hybrid scenarios in spatial crowdsourcing: A Q-Learning-based approach. 2022 , 131, 109749	0
320	An online dynamic pricing framework for resource allocation in edge computing. 2022 , 133, 102759	0
319	Real-time surrogate-assisted preprocessing of streaming sensor data. 2022 , 219, 109422	0
318	EdgeVPN: Self-organizing layer-2 virtual edge networks. 2023 , 140, 104-116	0
317	Orfeon: An AIOps framework for the goal-driven operationalization of distributed analytical pipelines. 2023 , 140, 18-35	0
316	Edge Computing Technology: State-of-the-Art and Challenges in an Internet of Things. 2022 , 455-468	0
315	A Survey on Mobile Edge Computing for Video Streaming: Opportunities and Challenges. 2022 , 1-1	0
314	When User-Centric Network Meets Mobile Edge Computing: Challenges and Optimization. 2022 , 1-7	0
313	Energy-Aware Offloading and Power Optimization in Full Duplex Mobile Edge Computing-Enabled Cellular IoT Networks. 2022 , 1-1	0
312	REMR: A Reliability Evaluation Method for Dynamic Edge Computing Network under Time Constraint. 2022 , 1-1	0
311	Air-Ground Integrated Mobile Edge Computing in Vehicular Visual Sensor Networks. 2022 , 1-1	1
310	Electric Power Asynchronous Heterogeneous Data Accelerated Compression for Edge Computing. 2022 ,	0
309	Power Grid Data Monitoring and Analysis System based on Edge Computing. 2022 ,	0
308	Improving Security in Edge Computing by using Cognitive Trust Management Model. 2022 ,	0

307	Spectrum monitoring system based on edge computing and application. 2022,	0
306	Reliable Task Offloading Mechanism Based on Trusted Roadside Uint Service for Internet of Vehicles. 2022, 103045	0
305	Energy-efficient workload allocation in edge-cloud fiber-wireless networks.	1
304	Explainable Data Fusion on Edge: Challenges and Opportunities. 2023, 117-138	0
303	SVM-based subspace optimization domain transfer method for unsupervised cross-domain time series classification.	0
302	Verifiable Data Search with Fine-Grained Authorization in Edge Computing. 2022, 2022, 1-15	0
301	A privacy oriented authorized key agreement framework for vehicular edge computing.	0
300	EEPPDAEdge-enabled efficient privacy-preserving data aggregation in smart healthcare Internet of Things network.	0
299	A Method of Connecting Traditional Energy-Consuming Equipment to the Internet of Things. 2022, 2365, 012040	0
298	Intelligent Reflecting Surfaces Enhanced Mobile Edge Computing: Minimizing the Maximum Computational Time. 2022, 22, 8719	0
297	Modeling and simulation of smart grid-aware edge computing federations.	0
296	An Evaluation of Modern Accelerator-Based Edge Devices for Object Detection Applications. 2022, 10, 4299	2
295	Orchestrator Architecture and Communication Methodology for Flexible Event Driven Message Based Communication. 2023, 127-137	0
294	Resource scheduling in mobile edge computing using improved ant colony algorithm for space information network.	0
293	More-than-Human-Data Interaction. 2022,	0
292	Ultrafast Near-Ideal Phase-Change Memristive Physical Unclonable Functions Driven by Amorphous State Variations. 2204453	0
291	Distributed resource scheduling in edge computing: Problems, solutions, and opportunities. 2022, 219, 109430	0
290	Intelligent contracts: Making smart contracts smart for blockchain intelligence. 2022, 104, 108421	0

289	EdgeMatrix: A Resource-Redefined Scheduling Framework for SLA-Guaranteed Multi-Tier Edge-Cloud Computing Systems. 2022 , 1-1	0
288	Service Routing in Multi-tier Edge Computing: A Matching Game Approach. 2022 , 1-1	0
287	Semi-Asynchronous Hierarchical Federated Learning over Mobile Edge Networks. 2022 , 1-1	1
286	Synchronous Federated Learning Latency Optimization Based on \square Model Splitting. 2022 , 495-506	0
285	Dry laboratories \square Mapping the required instrumentation and infrastructure for online monitoring, analysis, and characterization in the mineral industry. 2023 , 191, 107971	0
284	A Descriptive Study on Metaverse. 2023 , 15, 1-14	0
283	CoopFL: Accelerating federated learning with DNN partitioning and offloading in heterogeneous edge computing. 2023 , 220, 109490	0
282	OMCBIR: Offline mobile content-based image retrieval with lightweight CNN optimization. 2023 , 76, 102355	0
281	Challenges in predictive maintenance \square A review. 2023 , 40, 53-67	0
280	Energy consumption of on-device machine learning models for IoT intrusion detection. 2023 , 21, 100670	0
279	Multi-agent deep reinforcement learning for online request scheduling in edge cooperation networks. 2023 , 141, 258-268	0
278	Deep Reinforcement Learning-based Resource Allocation for Cloud Gaming via Edge Computing. 2022 , 1-1	0
277	Comparison of Machine Learning Algorithms for Performance Evaluation of Photovoltaic Energy Forecasting and Management in the TinyML Framework. 2022 , 10, 121010-121020	0
276	Digital implementation of Radial Basis Function Neural Networks based on Stochastic Computing. 2022 , 1-1	0
275	A Survey of Blockchain and Intelligent Networking for the Metaverse. 2022 , 1-1	6
274	End-Edge Cooperative Scheduling Strategy Based on \square Software-Defined Networks. 2022 , 431-443	0
273	Efficient Differential Privacy Federated Learning Mechanism for \square Intelligent Selection of \square Optimal Privacy Protection Levels. 2022 , 603-614	0
272	GNN at the Edge: Cost-Efficient Graph Neural Network Processing over Distributed Edge Servers. 2022 , 1-1	0

- 271 A Threat Model for Vehicular Fog Computing. **2022**, 1-1 ○
- 270 Blockchain-Enabled Secure Big Data Analytics for Internet of Things Smart Applications. **2022**, 1-1 ○
- 269 Software-Defined Space-Ground-Vehicle Integrated Network Architecture for Unconscious Payment. **2022**, 10, 128122-128131 ○
- 268 GRAPH-BASED FOG COMPUTING NETWORK MODEL. **2020**, 16, 5-20 ○
- 267 General Purpose and Neural Network Approach for Benchmarking Microcontrollers Under Radiation. **2021**, ○
- 266 Research on hardware assisted data cleaning algorithm for IoT Edge Computing. **2022**, ○
- 265 FPGA Based Simulation Study of Wear-Leveling Block Searching Algorithm. **2022**, ○
- 264 Intelligent Load Scheduling in Cognitive Buildings: A Use Case. **2023**, 305-328 ○
- 263 Providing Location Information at Edge Networks: A Federated Learning-Based Approach. **2022**, 36, 114-120 ○
- 262 Joint Optimization of Offloading Scheduling and Path Planning for Space-air-ground Integrated Edge Computing Systems. **2022**, ○
- 261 Optimum Configuration of Edge Computing Protocols for Industrial Internet-of-Thing Applications. **2022**, ○
- 260 Machine Learning In-Sensors: Computation-enabled Intelligent Sensors For Next Generation of IoT.. **2022**, ○
- 259 Chipmunk: Simple Distributed Object Storage for Named Data Networking. **2022**, ○
- 258 PRE-SLAM: Persistence Reasoning in Edge-assisted Visual SLAM. **2022**, ○
- 257 Blockchain-Based Trusted Container Orchestration for Edge Computing. **2022**, ○
- 256 Facial Expression Recognition System on a Distributed Edge-Cloud Infrastructure. **2022**, ○
- 255 Smart Scissor. **2022**, ○
- 254 Exploring the use of blockchain in resource-constrained fog computing environments. ○

253	5G-Enabled Smart Devices and Multi-access Edge Computing for Improving the Healthcare System. 2023 , 433-444	0
252	SEmbedNet: Hardware-Friendly CNN for Ectopic Beat Classification on STM32-Based Edge Device. 2022 ,	0
251	An IoT Braille Display towards Assisting Visually Impaired Students in Mexico.	1
250	A Modularized IoT Monitoring System with Edge-Computing for Aquaponics. 2022 , 22, 9260	1
249	In-Home Older Adults' Activity Pattern Monitoring Using Depth Sensors: A Review. 2022 , 22, 9067	0
248	Development of an edge-cloud collaboration framework for fission battery management system. 2022 ,	0
247	Reducing the Capacity Loss of Lithium-Ion Batteries with Machine Learning in Real-Time: A Study Case. 2022 , 10, 1114	0
246	QuickFaaS: Providing Portability and Interoperability between FaaS Platforms. 2022 , 14, 360	1
245	Approximation Opportunities in Edge Computing Hardware: A Systematic Literature Review.	0
244	An Edge Computing Architecture Based on Unikernel. 2022 ,	0
243	Edge resource slicing approaches for latency optimization in AI-edge orchestration.	0
242	Development of API Service to Store and Utilize Video Analytics Data from Edge. 2022 ,	0
241	Enhancing Real-Time License Plate Recognition Through Edge-Cloud Computing. 2022 ,	0
240	Digital-Twin-Assisted Edge-Computing Resource Allocation Based on the Whale Optimization Algorithm. 2022 , 22, 9546	1
239	Application and Research of IoT Architecture for End-Net-Cloud Edge Computing. 2023 , 12, 1	2
238	Resource Requirements of an Edge-based Digital Twin Service: An Experimental Study. 2022 , 4, 506-520	0
237	Dynamic Load Balancing Techniques in the IoT: A Review. 2022 , 14, 2554	2
236	Task partitioning and offloading in IoT cloud-edge collaborative computing framework: a survey. 2022 , 11,	0

235	Reinforcement Learning Based Control Scheme for Emergency Vehicle Preemption with Edge Computing.	0
234	Integrated Inspection of QoM, QoP, and QoS for AOI Industries in Metaverses. 2022 , 9, 2071-2078	2
233	Edge Computing in Intelligent IoT. 2022 , 157-181	0
232	Implementation of a RISC-V SMT Core in an AI processor. 2022 ,	0
231	Privacy-Enhanced Federated Learning: A Restrictively Self-Sampled and Data-Perturbed Local Differential Privacy Method. 2022 , 11, 4007	0
230	Federated learning in cloud-edge collaborative architecture: key technologies, applications and challenges. 2022 , 11,	0
229	Smart Factory Navigator. 2023 , 7-31	0
228	A Fuzzy-Based Co-Incentive Trust Evaluation Scheme for Edge Computing in CEEC Environment. 2022 , 12, 12453	0
227	Horticulture 4.0: Adoption of Industry 4.0 Technologies in Horticulture for Meeting Sustainable Farming. 2022 , 12, 12557	1
226	A research on resource allocation algorithms in content of edge, fog and cloud. 2022 ,	0
225	EdgeMesh : A hybrid distributed training mechanism for heterogeneous edge devices.	0
224	Edge server placement for offloading real-time statistics tasks of bus passenger.	0
223	A blockchain-based framework for data quality in edge-computing-enabled crowdsensing. 2023 , 17,	0
222	Remote Monitoring and Maintenance for Equipment and Production Lines on Industrial Internet: A Literature Review. 2023 , 11, 12	0
221	Dynamic Partitioning and Popularity based Caching for Optimized Performance in content-centric fog networks: DPPCOP. 2022 , 101740	0
220	Prefetching Method for Low-Latency Web AR in the WMN Edge Server. 2023 , 13, 133	0
219	A human-centered, health data-driven ecosystem. 2022 , 1,	0
218	Federated Data Analytics: A Study on Linear Models. 1-25	0

- 217 A Smartphone-enabled IoT System for Vibration and Noise Monitoring of Rail Transit. **2023**, 1-1 ○
- 216 Data-driven Task Offloading Method for Resource-constrained Terminals via Unified Resource Model. **2023**, 1-1 ○
- 215 Resource Utilization of Distributed Databases in Edge-Cloud Environment. **2023**, 1-1 ○
- 214 Task Allocation Mechanism of Power Internet of Things Based on Edge Routing Optimization. **2022**, 118-131 ○
- 213 An Interoperable Framework for Heterogeneous IoT infrastructure to Unlock Data Value. **2022**, 69-81 ○
- 212 Digital Manufacturing. **2023**, 65-80 ○
- 211 Accurate Crack Detection Based on Distributed Deep Learning for IoT Environment. **2023**, 23, 858 1
- 210 BiLSTM-based Federated Learning Computation Offloading and Resource Allocation Algorithm in MEC. ○
- 209 Sow Farrowing Early Warning and Supervision for Embedded Board Implementations. **2023**, 23, 727 ○
- 208 Transparent Access to Heterogeneous IoT Based on Virtual Resources. **2023**, 74, 4983-4999 ○
- 207 Research on Edge Detection Model of Insulators and Defects Based on Improved YOLOv4-tiny. **2023**, 11, 122 ○
- 206 On-Device Intelligence for Malfunction Detection of Water Pump Equipment in Agricultural Premises: Feasibility and Experimentation. **2023**, 23, 839 1
- 205 Novel Approaches for Resource Management Across Edge Servers. ○
- 204 AS-cast: Lock Down the Traffic of Decentralized Content Indexing at the Edge. **2023**, 433-454 ○
- 203 Cloud, Edge, and Fog Computing Technologies in Agriculture. **2023**, 1-7 ○
- 202 SCRT: A Secure and Efficient State Channels-Based Resource Trading Scheme for Internet of Things. **2023**, 1-1 ○
- 201 Heart Rate Variability-Based Drowsiness Detection System. **2023**, 249-272 ○
- 200 A many-objective evolutionary algorithm based on constraints for collaborative computation offloading. **2023**, 77, 101244 ○

199	Analyzing the risks of digital servitization in the machine tool industry. 2023 , 82, 102520	0
198	Privacy preserving Federated Learning framework for IoMT based big data analysis using edge computing. 2023 , 86, 103720	1
197	Homomorphic cryptosystem-based secure data processing model for edge-assisted IoT healthcare systems. 2023 , 22, 100693	0
196	Multi-tier Edge Computing for Partitioned Neural Network. 2022 ,	0
195	PipeEdge: Pipeline Parallelism for Large-Scale Model Inference on Heterogeneous Edge Devices. 2022 ,	0
194	Edge Computing and Learning. 2023 , 99-122	0
193	Federated Reinforcement Learning for RIS-Aided Non-Orthogonal Multiple Access MEC. 2022 ,	0
192	Detection and Incentive: A Tampering Detection Mechanism for Object Detection in Edge Computing. 2022 ,	0
191	A collaborative caching over PLC for remote areas. 2022 ,	0
190	On-line Interpolation-based Data Management for Time-Series Data toward Edge Computing. 2022 ,	0
189	Position Paper: Renovating Edge Servers with ARM SoCs. 2022 ,	0
188	Poster: Towards Efficient Multilayer Collaboration for CAV Applications. 2022 ,	0
187	Wood wide web design. A computational model to adapt the cities design with mycorrhizal networks. 2022 ,	0
186	A Taxonomy for Resource Management in Edge Computing, Applications and Future Realms. 2022 ,	1
185	A Lightweight Container Design for Microservice-based Industrial Edge Applications. 2022 ,	0
184	Joint Scheduling and Beamforming Design in Traffic-Aware RIS Aided MEC Network. 2022 ,	0
183	ENTS: An Edge-native Task Scheduling System for Collaborative Edge Computing. 2022 ,	0
182	Multitask Offloading Strategy for Edge Computing in Time-Sensitive Networking. 2022 , 2022, 1-17	0

181	ShapeShifter: Resolving the Hidden Latency Contention Problem in MEC. 2022,	○
180	E2EdgeAI: Energy-Efficient Edge Computing for Deployment of Vision-Based DNNs on Autonomous Tiny Drones. 2022,	○
179	Integrated application model for visual detection of welding quality based on visual neuron under edge-end collaboration. 1-19	○
178	Multitiered Worker-Oriented Resource Allocation at the Extreme Edge. 2022,	○
177	Joint Resource Allocation for Integrated Localization and Computing in Edge-intelligent Networks. 2022,	○
176	Towards A More Flexible Networking Landscape. 2022,	○
175	A Proposal of ClouEdge (Cloud-Edge) Architecture by Using JYAGUCHI Computing Framework. 2022,	○
174	Design and Implementation of Real-time Anomaly Detection System based on YOLOv4. 2022, 13, 130-136	○
173	Using Deep Learning for Simulation of Real time Video Streaming Applications. 2022,	○
172	Sustainable and Secure Optimization of Load Distribution in Edge Computing. 2022,	○
171	Cloud, Edge, and Fog Computing Technologies in Agriculture. 2023, 1-7	○
170	Application of Anomaly Detection Algorithms in Lithium-Ion Battery Packs - A Case Study. 2023, 753-760	○
169	ProScale: Proactive Autoscaling for Microservice With Time-Varying Workload At the Edge. 2023, 1-18	○
168	Meshless optical mode solving using scalable deep deconvolutional neural network. 2023, 13,	○
167	Edge Computing Task Scheduling with Joint Blockchain and Task Caching in Industrial Internet. 2023, 75, 2101-2117	○
166	Evolution of Internet of Things (IoT). 2023, 1-39	○
165	Joint Offloading and Resource Allocation with Diverse Battery Level Consideration in MEC System. 2023, 1-1	1
164	Fog-cloud architecture-driven Internet of Medical Things framework for healthcare monitoring.	○

- 163 The Cloud-to-Edge-to-IoT Continuum as an Enabler for Search and Rescue Operations. **2023**, 15, 55 1
- 162 Building Decentralized Resilient Cyber-Physical Systems for Operating in Open Areas. **2023**, 21-29 0
- 161 Distributed Target Tracking With Optimal Data Migration. **2023**, 0
- 160 Blockchain-Based Decentralized Federated Learning Method in Edge Computing Environment. **2023**, 13, 1677 0
- 159 Real-Time Fault Identification System for a Retrofitted Ultra-Precision CNC Machine from Equipment's Power Consumption Data: A Case Study of an Implementation. 0
- 158 Edge Computing: Use Cases and Research Challenges. **2023**, 125-142 0
- 157 Seagull optimization algorithm based multi-objective VM placement in edge-cloud data centers. **2023**, 3, 28-36 0
- 156 Computation rate optimization for double-intelligent reflecting surface aided mobile edge computing system. 0
- 155 Joint bandwidth allocation and task offloading in multi-access edge computing. **2023**, 217, 119563 0
- 154 A hybrid tuple selection pipeline for smartphone based Human Activity Recognition. **2023**, 217, 119536 0
- 153 A Route Planning for Autonomous Vehicle in 5G and Edge Computing Environment. **2022**, 0
- 152 Intrusion Detection Based on Data Privacy in Cloud-Edge Collaborative Computing Using Federated Learning. **2022**, 0
- 151 An Efficient Intelligent Edge Diagnosis System Based on WDCNN in the Application of Equipment Fault Classification. **2022**, 0
- 150 A Kubernetes-Oriented Edge Network Orchestrator for Heterogeneous Environment. **2022**, 0
- 149 Edge and Fog Computing. **2023**, 73-99 0
- 148 Task Offloading Optimization Based on Position Prediction in Pedestrian- Robot Mixed Traffic Flows. **2022**, 0
- 147 Mobile Cloud Computing. **2023**, 43-60 0
- 146 Time-frequency Analysis and Convolutional Neural Network based Radio Frequency Fingerprinting Identification. **2022**, 0

- 145 Space-Air-Ground-Aqua Integrated Intelligent Network: Vision, and Potential Techniques. **2022,** ○
- 144 An Exploration on building of Smart Office through AI and IOT. **2022,** ○
- 143 Optimal Trajectory Planning and Task Assignment for UAV-assisted Fog Computing. **2022,** ○
- 142 Anti-jamming Channel Allocation in UAV-Enabled Edge Computing: A Stackelberg Game Approach. **2022,** ○
- 141 InstaVarjoLive: An Edge-Assisted 360 Degree Video Live Streaming for Virtual Reality Testbed. **2022,** ○
- 140 Benchmarking Container Technologies For IoT Environments. **2022,** ○
- 139 An Embedded Monocular Vision Approach for Ground-Aware Objects Detection and Position Estimation. **2023,** 100-111 ○
- 138 Systematic analysis of artificial intelligence in the era of industry 4.0. **2023,** 10, 89-108 ○
- 137 Industrial IoT Condition Monitoring using Wireless IoT Sensor. **2023,** ○
- 136 Blockchain based Secure Communication in IoT Environment. **2023,** ○
- 135 Toward Performance and Energy-Efficient Edge-of-Things. **2023,** 25, 17-23 ○
- 134 Modeling and Evaluation of the Internet of Things Communication Protocols in Security Constrained Systems. **2023,** ○
- 133 A model-based infrastructure for the specification and runtime execution of self-adaptive IoT architectures. ○
- 132 A Study of Mobile Edge Computing for IOT. ○
- 131 Towards Future Internet: The Metaverse Perspective for Diverse Industrial Applications. **2023,** 11, 941 1
- 130 IoT-based Edge Computing (IoTEC) for Improved Environmental Monitoring. **2023,** 100870 ○
- 129 Enabling Balanced Data Deduplication in Mobile Edge Computing. **2023,** 34, 1420-1431 ○
- 128 Joint multi-user DNN partitioning and task offloading in mobile edge computing. **2023,** 144, 103156 ○

- 127 A hybrid deep learning framework for privacy preservation in edge computing. **2023**, 129, 103209 ○
- 126 A scalable simulator for cloud, fog and edge computing platforms with mobility support. **2023**, 144, 117-130 ○
- 125 Fairness-aware data offloading of IoT applications enabled by heterogeneous UAVs. **2023**, 22, 100745 ○
- 124 A Task Allocation Method in Edge Computing Based on Multi-Objective Optimization. **2022**, ○
- 123 Multi task dynamic edge-end computing collaboration for urban Internet of Vehicles. **2023**, 227, 109690 ○
- 122 Cost optimization of omnidirectional offloading in two-tier cloud-edge federated systems. **2023**, 215, 103630 ○
- 121 A package-aware scheduling strategy for edge serverless functions based on multi-stage optimization. **2023**, 144, 105-116 ○
- 120 Task offloading paradigm in mobile edge computing-current issues, adopted approaches, and future directions. **2023**, 212, 103568 ○
- 119 Cloud-Edge Collaboration Based Power IoT Scene Perception Mechanism. **2022**, 100-117 ○
- 118 Edge computing-based unified condition monitoring system for process manufacturing. **2023**, 177, 109032 ○
- 117 Semantic-Aware View Prediction for 360-Degree Videos at the 5G Edge. **2022**, ○
- 116 A Steiner Tree based efficient network infrastructure design in 5G urban vehicular networks. **2023**, 201, 59-71 ○
- 115 Applying Neural Networks with Time-Frequency Features for the Detection of Mental Fatigue. **2023**, 13, 1512 ○
- 114 A real-time digital twin approach on three-phase power converters applied to condition monitoring. **2023**, 334, 120606 ○
- 113 Challenges and Triumphs Teaching Distributed Computing Topics at a Small Liberal Arts College. **2022**, ○
- 112 Designing Low-Power and High-Speed FPGA-Based Binary Decision Tree Hardware Accelerators. **2022**, 57-72 ○
- 111 An FPGA-Based Hardware Accelerator for the k-Nearest Neighbor Algorithm Implementation in Wearable Embedded Systems. **2022**, 44-56 ○
- 110 Voice Keyword Spotting on Edge Devices. **2022**, ○

- 109 Smart and collaborative industrial IoT: A federated learning and data space approach. **2023**, ○
- 108 PUF-based Authentication Scheme for Edge Data Centers in Collaborative Edge Computing. **2022**, ○
- 107 Pulse width dependent operations of a Ag2S island network reservoir. **2023**, 62, SG1032 ○
- 106 Software engineering approaches for TinyML based IoT embedded vision. **2022**, ○
- 105 Edge-aided searchable data sharing scheme for IoV in the 5G environment. **2023**, 136, 102834 ○
- 104 6G networks for artificial intelligence-enabled smart cities applications: A scoping review. **2023**, 9, 100044 ○
- 103 Edge-Cloud Hybrid Tiny Data Reduction Model for Anomaly Detection. **2022**, ○
- 102 Computation Offloading Algorithm Based on Deep Reinforcement Learning and Multi-Task Dependency for Edge Computing. **2022**, 111-122 ○
- 101 Privacy-preserving cloud-edge collaborative learning without trusted third-party coordinator. **2023**, 12, ○
- 100 Fault Tolerant Edge for Landslide Early Warning System. **2022**, ○
- 99 Hierarchically Organized Computer Vision in Support of Multi-Faceted Search for Missing Persons. **2023**, ○
- 98 Cloud-Native Workload Orchestration at the Edge: A Deployment Review and Future Directions. **2023**, 23, 2215 1
- 97 A Novel Transmission Line Defect Detection Method Based on Adaptive Federated Learning. **2023**, 72, 1-12 ○
- 96 Digital Twins-Enabling Technologies Including AI, Sensors, Cloud, and Edge Computing. **2023**, 306-331 ○
- 95 SMART & Secure AV Communication with the Edge in 5G and Beyond. **2023**, ○
- 94 Design of an energy-efficient nonvolatile lookup table circuit using active-load-localized circuitry with self-terminated writing/reading. ○
- 93 Steam computing paradigm: Cross-layer solutions over cloud, fog, and edge computing. ○
- 92 Programming for High-Performance Computing on Edge Accelerators. **2023**, 11, 1055 ○

- 91 Stackelberg game-based task offloading and pricing with computing capacity constraint in mobile edge computing. **2023**, 137, 102847 ○
- 90 An Energy Efficient Task Scheduling for a Cloud-edge System. **2023**, 2425, 012028 ○
- 89 Resource-Aware Scheduling Mechanism for Real-Time Tasks in Lightweight Edge Systems. **2022**, ○
- 88 An Energy Efficient LoRa-based Multi-Sensor IoT Network for Smart Sensor Agriculture System. **2023**, ○
- 87 Pushing AI to wireless network edge: an overview on integrated sensing, communication, and computation towards 6G. **2023**, 66, ○
- 86 Joint Optimization of Multidimensional Resources Allocation in Cloud Networking. **2022**, ○
- 85 From centralized to Federated Learning: Exploring performance and end-to-end resource consumption. **2023**, 225, 109657 ○
- 84 An Improved Lightweight Yolo-Fastest V2 for Engineering Vehicle Recognition Fusing Location Enhancement and Adaptive Label Assignment. **2023**, 16, 2450-2461 ○
- 83 A maturity model for the autonomy of manufacturing systems. **2023**, 126, 405-428 ○
- 82 Neural Network Models for Driving Control of Indoor Autonomous Vehicles in Mobile Edge Computing. **2023**, 23, 2575 ○
- 81 TLS Protocol Analysis Using IoTSTAN An IoT Benchmark Based on Scheduler Traces. **2023**, 23, 2538 ○
- 80 FC-PA: Fog Computing-Based Pseudonym Authentication Scheme in 5G-Enabled Vehicular Networks. **2023**, 11, 18571-18581 2
- 79 Enhanced Edge Computing Model by using Data Combs for Big Data in Metaverse. **2023**, ○
- 78 Ideological and political education system based on emotion analysis in large-scale online education. ○
- 77 Spatial-temporal Data Compression of Dynamic Vision Sensor Output with High Pixel-level Saliency using Low-precision Sparse Autoencoder. **2022**, ○
- 76 QoS-Aware Service Placement for Fog Integrated Cloud Using Modified Neuro-Fuzzy Approach. **2023**, 449-462 ○
- 75 Self-* Capabilities of Cloud-Edge Nodes: A Research Review. **2023**, 23, 2931 ○
- 74 MLPKV: A Local Differential Multi-Layer Private Key-Value Data Collection Scheme for Edge Computing Environments. **2023**, 18, 1825-1838 ○

- 73 Emerging memristive neurons for neuromorphic computing and sensing. **2023**, 24, ○
- 72 An Online Wear State Identification Method for Axial Piston Pump Key Friction Pair based on FSANN. **2022**, ○
- 71 Resource Scheduling in Edge Computing: Architecture, Taxonomy, Open Issues and Future Research Directions. **2023**, 11, 25329-25350 ○
- 70 High-dimensional Video Caching Selection Method Based on Deep Reinforcement Learning. **2022**, ○
- 69 Computation Offloading From Edge to Equipment for Smart Manufacturing. **2022**, ○
- 68 Performance Enhancement of a Spin-Wave-Based Reservoir Computing System Utilizing Different Physical Conditions. **2023**, 19, ○
- 67 Trusted and only Trusted. That is the Access!. **2023**, 490-503 ○
- 66 ABIDI: A Reference Architecture for Reliable Industrial Internet of Things. **2023**, 26-39 ○
- 65 A Time Pattern-Based Intelligent Cache Optimization Policy on Korea Advanced Research Network. **2023**, 36, 3743-3759 ○
- 64 A cyber physical production system framework for online monitoring, visualization and control by using cloud, fog, and edge computing technologies. 1-19 ○
- 63 Context-aware Task Offloading and Resource Allocation in Cloud-Edge System for Electric Data Processing. **2022**, ○
- 62 Digital Twins for the Future Power System: An Overview and a Future Perspective. **2023**, 15, 5259 ○
- 61 RAP-G: Reliability-aware service placement using genetic algorithm for deep edge computing. **2023**, ○
- 60 System reliability in IoT-based data collecting systems using low-cost particulate matter sensors. **2023**, 15-34 ○
- 59 Automated and intelligent systems for next-generation-based smart applications. **2023**, 265-276 ○
- 58 FNet4Rec: A Simple and Efficient Sequential Recommendation with Fourier Transforms. **2022**, ○
- 57 A Study on Creation of Industry 5.0: New Innovations using big data through artificial intelligence, Internet of Things and next-origination technology policy. **2023**, ○
- 56 Deep Reinforcement Learning-Based One-to-Multiple Cooperative Computing in Large-Scale Event-Driven Wireless Sensor Networks. **2023**, 23, 3237 ○

- 55 Joint Task Proportion and Edge Node Selection for Latency Minimization Based on MEC Collaboration. **2022**, ○
- 54 A System and Method of Production Line Task Allocation Based on MEC. **2022**, ○
- 53 Enabling Anonymous Authenticated Encryption with a Novel Anonymous Authenticated Credential Key Agreement (AACKA). **2022**, ○
- 52 Container-Based Task Scheduling for Edge Computing Using A Multi-strategy Hybrid of Genetic Beetles. **2022**, ○
- 51 A Distributed Approach for 5G Computation Offloading based on Non-Preemptive Priority Scheduling and Deep Reinforcement Learning. **2022**, ○
- 50 Layer Sensitivity Aware CNN Quantization for Resource Constrained Edge Devices. **2022**, ○
- 49 Graph theory methods for fog computing: A pseudo-random task graph model for evaluating mobile cloud, fog and edge computing systems. **2022**, 1, 1-16 ○
- 48 Setting the Scene: Cloud, Edge, Mobile and Ad-hoc Computing Context. **2023**, 13-20 ○
- 47 Introduction. **2023**, 1-8 ○
- 46 A Gas Leakage Detection Device Based on the Technology of TinyML □ **2023**, 11, 45 ○
- 45 Performance comparison of distributed in memory databases in dynamic fog environments. **2022**, ○
- 44 An online service function chain orchestration method for profit maximization in edge computing networks. ○
- 43 Hierarchical Computing Network Collaboration Architecture for Industrial Internet of Things. **2023**, ○
- 42 Decentralized Federated Learning with Data Feature Transmission and Neighbor Selection. **2023**, ○
- 41 A convolutional neural network based online teaching method using edge-cloud computing platform. **2023**, 12, ○
- 40 Joint Task Partition and Computation Offloading for Latency-Sensitive Services in Mobile Edge Networks. **2022**, ○
- 39 MECaaS: Mobile Edge Computing as a Services Based on Blockchain. **2023**, 1050-1062 ○
- 38 Socially Aware Multi-Resource Trading for IoT Applications in Smart Cities using Auction theory. **2023**, ○

- 37 A Cloud-Edge Server-Based Cypher Scheme for Secure Data Sharing in IoT Environment. **2023**, 261-271 ○
- 36 An Integrated Security Framework for OT System Based on Edge Computing. **2022**, ○
- 35 Evaluating a clinical decision support point of care instrument in low resource setting. **2023**, 23, ○
- 34 A Trust Prediction Mechanism in Edge Communications using Optimized Support Vector Regression. **2023**, ○
- 33 Topological Dependencies in Deep Learning for Mobile Edge: Distributed and Collaborative High-Speed Inference. **2023**, ○
- 32 Deep Reinforcement Learning-Based UAV Path Planning for Energy-Efficient Multitier Cooperative Computing in Wireless Sensor Networks. **2023**, 2023, 1-13 ○
- 31 Policy-Based Task Allocation at Runtime for a Self-Adaptive Edge Computing Infrastructure. **2023**, ○
- 30 Recent Advances in Artificial Intelligence Sensors. ○
- 29 Online Processing of Vehicular Data on the Edge Through an Unsupervised TinyML Regression Technique. ○
- 28 Internet of Things and Edge Computing for Real Time Applications. **2023**, ○
- 27 FM-STDNet: High-Speed Detector for Fast-Moving Small Targets Based on Deep First-Order Network Architecture. **2023**, 12, 1829 ○
- 26 Intelligence Gathering on An Edge Network by Using DNS Approach. **2022**, ○
- 25 Novel Data Return Approach for Internet of Vehicles Based on Edge Computing. **2023**, 103178 ○
- 24 Advance Plant Health Monitoring and Forecasting System Using Edge-Fog-Cloud Computing and LSTM Networks. **2023**, 335-344 ○
- 23 Enabling Edge Computing Ability in View-Independent Vehicle Model Recognition. **2023**, ○
- 22 SECHO:A deep reinforcement learning-based scheme for secure handover in mobile edge computing. **2023**, 109769 ○
- 21 Data Stream Analytics. **2023**, 2, 346-349 ○
- 20 Segment based power-efficient scheduling for real-time DAG tasks on edge devices. **2023**, 116, 103022 ○

- 19 DIdM-ElotD: Distributed Identity Management for Edge Internet of Things (IoT) Devices. **2023**, 23, 4046 ○
- 18 Cooperative Task Execution for Object Detection in Edge Computing: An Internet of Things Application. **2023**, 13, 4982 ○
- 17 Camera with Artificial Intelligence of Things (AIoT) Technology for Wildlife Camera Trap System. **2023**, ○
- 16 Cybersecurity in Digital Transformation. **2023**, 1-70 ○
- 15 A survey on run-time power monitors at the edge. ○
- 14 Interactive Anomaly-Based DDoS Attack Detection Method in Cloud Computing Environments Using a Third Party Auditor. **2023**, ○
- 13 Offloading Algorithms for Maximizing Inference Accuracy on Edge Device in an Edge Intelligence System. **2023**, 1-15 ○
- 12 Design of intelligent visitor system based on cloud and edge collaborative computing. **2023**, 17, 174830262311691 ○
- 11 Smart Buildings in the IoT Era [Necessity, Challenges, and Opportunities]. **2023**, 1-21 ○
- 10 HIT-UAV: A high-altitude infrared thermal dataset for Unmanned Aerial Vehicle-based object detection. **2023**, 10, ○
- 9 Distributed Systems for Emerging Computing: Platform and Application. **2023**, 15, 151 ○
- 8 Optimization of privacy-aware cloud crowdsourcing resource combinations for product development. **2023**, 120176 ○
- 7 ARToolKit Target Tracking and Animation Fusion Technology Based on Edge Computing and Augmented Reality. **2023**, 2023, 1-15 ○
- 6 CloudEdge Hybrid Computing Architecture for Large-Scale Scientific Facilities Augmented with an Intelligent Scheduling System. **2023**, 13, 5387 ○
- 5 An approach for modeling the operational requirements of FaaS applications for optimal deployment. **2023**, 161, 107242 ○
- 4 An Empirical Study of Resource-Stressing Faults in Edge-Computing Applications. **2023**, ○
- 3 Privacy-Protective Distributed Machine Learning Between Rich Devices and Edge Servers Using Confidence Level. **2023**, 142-154 ○
- 2 Earthquake Magnitude With DAS: A Transferable Data-Based Scaling Relation. **2023**, 50, ○

- 1 A Non-Intrusive Load Decomposition Method Based on Generative Adversarial Networks and Asynchronous Federated Learning. **2023**, 2467, 012010

o