Space-Air-Ground Integrated Network: A Survey

IEEE Communications Surveys and Tutorials 20, 2714-2741 DOI: 10.1109/comst.2018.2841996

Citation Report

#	Article	IF	CITATIONS
1	Controller Placement in Software-Defined Satellite Networks. , 2018, , .		14
2	A Review of Dynamic Resource Allocation in Integrated Satellite and Terrestrial Networks. , 2018, , .		10
3	Addressing Subnet Division Based on Geographical Information for Satellite-Ground Integrated Network. IEEE Access, 2018, 6, 75824-75833.	2.6	15
4	Timing Synchronization and Ranging in Networked UAV-Aided OFDM Systems. Journal of Communications and Information Networks, 2018, 3, 45-54.	3.5	10
5	Intelligent Context-Aware Communication Paradigm Design for IoVs Based on Data Analytics. IEEE Network, 2018, 32, 74-82.	4.9	38
6	A Comprehensive Survey on UAV Communication Channel Modeling. IEEE Access, 2019, 7, 107769-107792.	2.6	223
7	Joint Multigroup Precoding and Resource Allocation in Integrated Terrestrial-Satellite Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 8075-8090.	3.9	39
8	Multi-Drone 3-D Trajectory Planning and Scheduling in Drone-Assisted Radio Access Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 8145-8158.	3.9	65
9	Evaluation of Synchronized SS-CDMA for QZSS Safety Confirmation System. IEEE Transactions on Vehicular Technology, 2019, 68, 4846-4856.	3.9	8
10	A Survey on 5G Millimeter Wave Communications for UAV-Assisted Wireless Networks. IEEE Access, 2019, 7, 117460-117504.	2.6	221
11	POMDP-Based Energy Cooperative Transmission Policy for Multiple Access Model Powered by Energy Harvesting. IEEE Transactions on Vehicular Technology, 2019, 68, 5747-5757.	3.9	8
12	Analysis of a Packet-Level Block Coding Approach for Terrestrial-Satellite Mobile Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 8117-8132.	3.9	18
13	6G Wireless Networks: Vision, Requirements, Architecture, and Key Technologies. IEEE Vehicular Technology Magazine, 2019, 14, 28-41.	2.8	1,275
14	When mobile crowd sensing meets smart agriculture. , 2019, , .		4
15	Hybrid Satellite-Terrestrial Relay Networks With Adaptive Transmission. IEEE Transactions on Vehicular Technology, 2019, 68, 12448-12452.	3.9	53
16	Satellite-Based Capillary 5G-mMTC Networks for Environmental Applications. IEEE Aerospace and Electronic Systems Magazine, 2019, 34, 40-48.	2.3	17
17	Energy Efficient Resource Allocation for UAV-Assisted Space-Air-Ground Internet of Remote Things Networks. IEEE Access, 2019, 7, 145348-145362.	2.6	72
18	Mobility-Aware Joint Service Placement and Routing in Space-Air-Ground Integrated Networks. , 2019, , .		21

TATION REDO

# 19	ARTICLE Connectivity in the Air: Throughput Analysis of Air-to-Ground Systems. , 2019, , .	IF	CITATIONS 6
20	Online UAV Scheduling Towards Throughput QoS Guarantee for Dynamic IoVs. , 2019, , .		9
21	3D Multi-Drone-Cell Trajectory Design for Efficient IoT Data Collection. , 2019, , .		9
22	Air Traffic Surveillance Using IP-Based Space Information Network. , 2019, , .		11
23	Self-learning Congestion Control of MPTCP in Satellites Communications. , 2019, , .		10
24	Toward Optimal Mobility-Aware VM Placement and Routing in Space-Air-Ground Integrated Networks. , 2019, , .		11
25	Secrecy Rate Analysis of Satellite Communications With Frequency Domain NOMA. IEEE Transactions on Vehicular Technology, 2019, 68, 11847-11858.	3.9	24
26	Resource Mobility in Space Information Networks: Opportunities, Challenges, and Approaches. IEEE Network, 2019, 33, 128-135.	4.9	36
27	A distributed congestion avoidance routing algorithm in mega-constellation network with multi-gateway. Acta Astronautica, 2019, 162, 376-387.	1.7	31
28	Data-Aided Frequency Offset Estimation for CE-OFDM Broadband Satellite Systems. Applied Sciences (Switzerland), 2019, 9, 2310.	1.3	3
29	Aeronautical \$Ad~Hoc\$ Networking for the Internet-Above-the-Clouds. Proceedings of the IEEE, 2019, 107, 868-911.	16.4	132
30	On Countermeasures of Pilot Spoofing Attack in Massive MIMO Systems: A Double Channel Training Based Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 6697-6708.	3.9	32
31	Spectral and Energy Efficiencies of Millimeter Wave MIMO With Configurable Hybrid Precoding. IEEE Transactions on Vehicular Technology, 2019, 68, 5732-5746.	3.9	22
32	Aircraft to Ground-Station C-Band Channel—Small Airport Scenario. IEEE Transactions on Vehicular Technology, 2019, 68, 4306-4315.	3.9	5
33	Three-Dimensional Continuous Movement Control of Drone Cells for Energy-Efficient Communication Coverage. IEEE Transactions on Vehicular Technology, 2019, 68, 6535-6546.	3.9	37
34	A Computation Offloading Incentive Mechanism with Delay and Cost Constraints under 5G Satellite-Ground IoV Architecture. IEEE Wireless Communications, 2019, 26, 124-132.	6.6	41
35	Space/Aerial-Assisted Computing Offloading for IoT Applications: A Learning-Based Approach. IEEE Journal on Selected Areas in Communications, 2019, 37, 1117-1129.	9.7	542
36	Dynamic Scheduling of Hybrid Tasks With Time Windows in Data Relay Satellite Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 4989-5004.	3.9	34

#	Article	IF	CITATIONS
37	A Game Theory Based Efficient Computation Offloading in an UAV Network. IEEE Transactions on Vehicular Technology, 2019, 68, 4964-4974.	3.9	110
38	Resource Allocation for Device-to-Device Communications in Multi-Cell Multi-Band Heterogeneous Cellular Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 4760-4773.	3.9	38
39	Deep Q-Learning Aided Networking, Caching, and Computing Resources Allocation in Software-Defined Satellite-Terrestrial Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 5871-5883.	3.9	150
40	Relay-Aided Multiple Access Scheme in Two-Point Joint Transmission. IEEE Transactions on Vehicular Technology, 2019, 68, 5629-5641.	3.9	9
41	Efficient and Fair Network Selection for Integrated Cellular and Drone-Cell Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 923-937.	3.9	11
42	Iterative Approaches for Massive MIMO Uplink Processing Under Imperfect Channel Conditions. IEEE Transactions on Vehicular Technology, 2019, 68, 3642-3654.	3.9	4
43	A Novel Dynamic Resource Optimization Method in LEO-MSS Downlink with Multi-service Based on Handover Forecasting. , 2019, , .		4
44	A Prediction Approach to End-to-End Traffic in Space Information Networks. , 2019, , .		4
45	Outage Performance of Satellite-Aerial-Terrestrial Network. , 2019, , .		1
46	UAV Deployment Strategy for Range-Based Space-Air Integrated Localization Network. , 2019, , .		8
47	MEC-Driven UAV-Enabled Routine Inspection Scheme in Wind Farm Under Wind Influence. IEEE Access, 2019, 7, 179252-179265.	2.6	22
48	Similar Data Detection for Cooperative Spectrum Monitoring in Space-Ground Integrated Networks. , 2019, , .		Ο
49	Service Function Chain Planning with Resource Balancing in Space-Air-Ground Integrated Networks. , 2019, , .		2
50	IP-based Space Air Ground Information Network for Air Traffic Control Communication. , 2019, , .		4
51	Disaster Management Using IP-Based Space-Air-Ground Information Network. , 2019, , .		4
52	Lightweight, Fast and Secure Data Authentication Algorithm for Satellite Application. , 2019, , .		0
53	Intelligent Coordinated Task Scheduling in Space-Air-Ground Integrated Network. , 2019, , .		7
54	Performance Evaluation of a Full-Duplex Relaying-Enabled Satellite Sensor Network. Sensors, 2019, 19, 5453.	2.1	2

		CITATION RE	PORT	
#	Article		IF	CITATIONS
55	A Survey on Machine-Learning Techniques for UAV-Based Communications. Sensors, 2019	9, 19, 5170.	2.1	193
56	Intelligent Vehicle-to-Vehicle Charging Navigation for Mobile Electric Vehicles via VANET-B Communication. IEEE Access, 2019, 7, 170888-170906.	ased	2.6	62
57	Sixty Years of Coherent Versus Non-Coherent Tradeoffs and the Road From 5G to Wireles IEEE Access, 2019, 7, 178246-178299.	s Futures.	2.6	49
58	UAV Communications for 5G and Beyond: Recent Advances and Future Trends. IEEE Interr Journal, 2019, 6, 2241-2263.	et of Things	5.5	864
59	A Cross-Domain SDN Architecture for Multi-Layered Space-Terrestrial Integrated Networks Network, 2019, 33, 29-35.	. IEEE	4.9	73
60	Optimizing Space-Air-Ground Integrated Networks by Artificial Intelligence. IEEE Wireless Communications, 2019, 26, 140-147.		6.6	272
61	A Node Location Algorithm Based on Node Movement Prediction in Underwater Acoustic Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 3166-3178.	Sensor	3.9	76
62	Integrated Resource Management for Terrestrial-Satellite Systems. IEEE Transactions on V Technology, 2020, 69, 3256-3266.	ehicular	3.9	53
63	Securing instruction interaction for hierarchical management. Journal of Parallel and Distri Computing, 2020, 137, 91-103.	buted	2.7	2
64	SDN/NFV-Empowered Future IoV With Enhanced Communication, Computing, and Cachir of the IEEE, 2020, 108, 274-291.	g. Proceedings	16.4	184
65	Three-Dimensional Modeling of mmWave Doubly Massive MIMO Aerial Fading Channels. I Transactions on Vehicular Technology, 2020, 69, 1190-1202.	EEE	3.9	49
66	Multiuser Selection Criteria for MIMO-NOMA Systems With Different Detectors. IEEE Tran Vehicular Technology, 2020, 69, 1777-1791.	sactions on	3.9	4
67	Guest editorial: 6G mobile networks: Emerging technologies and applications. China Com 2020, 17, 90-91.	nunications,	2.0	17
68	A Novel 3D UAV Channel Model for A2G Communication Environments Using AoD and Ac Algorithms. IEEE Transactions on Communications, 2020, 68, 7232-7246.	A Estimation	4.9	50
69	QoS Optimisation of eMBB Services in Converged 5G-Satellite Networks. IEEE Transactior Vehicular Technology, 2020, 69, 12098-12110.	s on	3.9	31
70	Service-Oriented Fair Resource Allocation and Auction for Civil Aircrafts Augmented Space-Air-Ground Integrated Networks. IEEE Transactions on Vehicular Technology, 2020, 13658-13672.	69,	3.9	22
71	Satellite-Aided Consensus Protocol for Scalable Blockchains. Sensors, 2020, 20, 5616.		2.1	11
72	Medium Access Control Protocols for the Internet of Things Based on Unmanned Aerial Ve Comparative Survey. Sensors, 2020, 20, 5586.	chicles: A	2.1	11

#	Article	IF	CITATIONS
73	Multi-Frequency Air-to-Ground Channel Measurements and Analysis for UAV Communication Systems. IEEE Access, 2020, 8, 110565-110574.	2.6	26
74	Safety-Oriented Resource Allocation for Space-Ground Integrated Cloud Networks of High-Speed Railways. IEEE Journal on Selected Areas in Communications, 2020, 38, 2747-2759.	9.7	15
75	Resource Cube: Multi-Virtual Resource Management for Integrated Satellite-Terrestrial Industrial IoT Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 11963-11974.	3.9	15
76	Fast Angle-of-Arrival Estimation via Virtual Subarrays in Analog Antenna Array. IEEE Transactions on Wireless Communications, 2020, 19, 6425-6439.	6.1	3
77	QoE-Driven Intelligent Handover for User-Centric Mobile Satellite Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 10127-10139.	3.9	28
78	Reconciliation Problem in Polar Integrated Navigation Considering Coordinate Frame Transformation. IEEE Transactions on Vehicular Technology, 2020, 69, 10375-10379.	3.9	3
79	Air-Ground Integrated Mobile Edge Networks: A Survey. IEEE Access, 2020, 8, 125998-126018.	2.6	51
80	NDM: Network Driving IP Mobility Support in Large Scale LEO Satellite Network. , 2020, , .		3
81	Cloud-Based Experimental Platform for the Space-Ground Integrated Network. Wireless Communications and Mobile Computing, 2020, 2020, 1-20.	0.8	5
82	Edge Computing for Visual Navigation and Mapping in a UAV Network. , 2020, , .		13
83	Metaheuristic Approaches to the Joint Controller and Gateway Placement in 5G-Satellite SDN Networks. , 2020, , .		8
84	6G Wireless Systems: A Vision, Architectural Elements, and Future Directions. IEEE Access, 2020, 8, 147029-147044.	2.6	193
85	Notice of Violation of IEEE Publication Principles: 6G Wireless Communication: Its Vision, Viability, Application, Requirement, Technologies, Encounters and Research. , 2020, , .		9
86	Multiple Access in Aerial Networks: From Orthogonal and Non-Orthogonal to Rate-Splitting. IEEE Open Journal of Vehicular Technology, 2020, 1, 372-392.	3.4	44
87	Joint Resource Allocation and UAV Trajectory Optimization for Space–Air–Ground Internet of Remote Things Networks. IEEE Systems Journal, 2021, 15, 4745-4755.	2.9	46
88	Al-Empowered Maritime Internet of Things: A Parallel-Network-Driven Approach. IEEE Network, 2020, 34, 54-59.	4.9	28
89	Enhanced Integrated Satellite-Terrestrial NOMA with Cooperative Device-to-Device Communication. Telecom, 2020, 1, 126-149.	1.6	5
90	Al-Inspired Non-Terrestrial Networks for IIoT: Review on Enabling Technologies and Applications. IoT, 2020, 1, 21-48.	2.3	23

#	Article	lF	CITATIONS
91	Space-Air-Ground Integrated Networks: Outage Performance Analysis. IEEE Transactions on Wireless Communications, 2020, 19, 7897-7912.	6.1	70
92	Adaptive Multi-Beam Arrangement for Improving Throughput in an HTS Communication System. , 2020, ,		7
93	Surveillance Plane Aided Air-Ground Integrated Vehicular Networks: Architectures, Applications, and Potential. IEEE Wireless Communications, 2020, 27, 122-128.	6.6	19
94	Antenna Tracking Techniques for Long Range Air-to-Ground Communication Systems Using a Monopulse Method. IEEE Access, 2020, 8, 166442-166449.	2.6	7
95	Non-Terrestrial Networks in 5G & amp; Beyond: A Survey. IEEE Access, 2020, 8, 165178-165200.	2.6	172
96	Air-to-Air Communications Beyond 5G: A Novel 3D CoMP Transmission Scheme. IEEE Transactions on Wireless Communications, 2020, 19, 7324-7338.	6.1	23
97	Joint Stochastic Computational Resource and UAV Trajectory for Wireless-Powered Space-Air-Ground IoRT Networks. IEEE Access, 2020, 8, 193728-193743.	2.6	5
98	An Energy-Efficient Topology Design and DDoS Attacks Mitigation for Green Software-Defined Satellite Network. IEEE Access, 2020, 8, 211434-211450.	2.6	10
99	A Hybrid Routing Algorithm in Terrestrial-Satellite Integrated Network. , 2020, , .		7
100	Secrecy Performance Analysis in Internet of Satellites: Physical Layer Security Perspective. , 2020, , .		3
101	A Unified Optimisation Framework for QoS Management and Congestion Control in VHTS Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 11619-11631.	3.9	6
102	Reinforcement Learning Based Capacity Management in Multi-Layer Satellite Networks. IEEE Transactions on Wireless Communications, 2020, 19, 4685-4699.	6.1	90
103	Opportunistic Utilization of Dynamic Multi-UAV in Device-to-Device Communication Networks. IEEE	4.0	25
	Transactions on Cognitive Communications and Networking, 2020, 6, 1069-1083.	4.9	
104	Transactions on Cognitive Communications and Networking, 2020, 6, 1069-1083. Time-Expanded Graph Based Energy-Efficient Delay-Bounded Multicast Over Satellite Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 10380-10384.	4.9 3.9	15
104 105	Transactions on Cognitive Communications and Networking, 2020, 6, 1069-1083. Time-Expanded Graph Based Energy-Efficient Delay-Bounded Multicast Over Satellite Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 10380-10384. UAV assistance paradigm: State-of-the-art in applications and challenges. Journal of Network and Computer Applications, 2020, 166, 102706.	4.9 3.9 5.8	15 228
104 105 106	Transactions on Cognitive Communications and Networking, 2020, 6, 1069-1083. Time-Expanded Graph Based Energy-Efficient Delay-Bounded Multicast Over Satellite Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 10380-10384. UAV assistance paradigm: State-of-the-art in applications and challenges. Journal of Network and Computer Applications, 2020, 166, 102706. Latency-Aware Offloading in Integrated Satellite Terrestrial Networks. IEEE Open Journal of the Communications Society, 2020, 1, 490-500.	4.9 3.9 5.8 4.4	15 228 33
104 105 106 107	Transactions on Cognitive Communications and Networking, 2020, 6, 1069-1083. Time-Expanded Graph Based Energy-Efficient Delay-Bounded Multicast Over Satellite Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 10380-10384. UAV assistance paradigm: State-of-the-art in applications and challenges. Journal of Network and Computer Applications, 2020, 166, 102706. Latency-Aware Offloading in Integrated Satellite Terrestrial Networks. IEEE Open Journal of the Communications Society, 2020, 1, 490-500. Service Function Chain Deployment and Network Flow Scheduling in Geo-Distributed Data Centers. IEEE Transactions on Network Science and Engineering, 2020, 7, 2587-2597.	4.9 3.9 5.8 4.4 4.1	15 228 33 13

#	Article	IF	Citations
109	Channel measurements and models for 6G: current status and future outlook. Frontiers of Information Technology and Electronic Engineering, 2020, 21, 39-61.	1.5	61
110	Physical Layer Security for Multiuser Satellite Communication Systems With Threshold-Based Scheduling Scheme. IEEE Transactions on Vehicular Technology, 2020, 69, 5129-5141.	3.9	64
111	Gait Learning Based Authentication for Intelligent Things. IEEE Transactions on Vehicular Technology, 2020, 69, 4450-4459.	3.9	11
112	Creating Efficient Blockchains for the Internet of Things by Coordinated Satellite-Terrestrial Networks. IEEE Wireless Communications, 2020, 27, 104-110.	6.6	32
113	Energy and Information Management of Electric Vehicular Network: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 967-997.	24.8	47
114	A survey on space-aerial-terrestrial integrated 5G networks. Computer Networks, 2020, 174, 107212.	3.2	24
115	Performance Evaluation of HARQ-Assisted Hybrid Satellite-Terrestrial Relay Networks. IEEE Communications Letters, 2020, 24, 423-427.	2.5	8
116	Task-Oriented Intelligent Networking Architecture for the Space–Air–Ground–Aqua Integrated Network. IEEE Internet of Things Journal, 2020, 7, 5345-5358.	5.5	58
117	Toward Robust and Intelligent Drone Swarm: Challenges and Future Directions. IEEE Network, 2020, 34, 278-283.	4.9	51
118	Latency Minimization for D2D-Enabled Partial Computation Offloading in Mobile Edge Computing. IEEE Transactions on Vehicular Technology, 2020, 69, 4472-4486.	3.9	140
119	The Performance Analysis of Downlink NOMA in LEO Satellite Communication System. IEEE Access, 2020, 8, 93723-93732.	2.6	42
120	Hash-Chain-Based Cross-Regional Safety Authentication for Space-Air-Ground Integrated VANETs. Applied Sciences (Switzerland), 2020, 10, 4206.	1.3	7
121	Performance of Multibeam Very High Throughput Satellite Systems Based on FSO Feeder Links With HPA Nonlinearity. IEEE Transactions on Wireless Communications, 2020, 19, 5908-5923.	6.1	36
122	Toward Swarm Coordination: Topology-Aware Inter-UAV Routing Optimization. IEEE Transactions on Vehicular Technology, 2020, 69, 10177-10187.	3.9	62
123	Joint Optimization of Resource Allocation and Multi-UAV Trajectory in Space-Air-Ground IoRT Networks. , 2020, , .		14
124	3D Channel Tracking for UAV-Satellite Communications in Space-Air-Ground Integrated Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 2810-2823.	9.7	35
125	UAV-assisted Online Video Downloading in Vehicular Networks: A Reinforcement Learning Approach. , 2020, , .		8
126	A Comprehensive Simulation Platform for Space-Air-Ground Integrated Network. IEEE Wireless Communications, 2020, 27, 178-185.	6.6	110

#	Article	IF	CITATIONS
127	A Hierarchical Approach to Resource Allocation in Extensible Multi-Layer LEO-MSS. IEEE Access, 2020, 8, 18522-18537.	2.6	26
128	Space-Air-Ground IoT Network and Related Key Technologies. IEEE Wireless Communications, 2020, 27, 96-104.	6.6	71
129	Convergence of Satellite and Terrestrial Networks: A Comprehensive Survey. IEEE Access, 2020, 8, 5550-5588.	2.6	94
130	Cell-Edge User Offloading via Flying UAV in Non-Uniform Heterogeneous Cellular Networks. IEEE Transactions on Wireless Communications, 2020, 19, 2411-2426.	6.1	31
131	SFC-Based Service Provisioning for Reconfigurable Space-Air-Ground Integrated Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 1478-1489.	9.7	84
132	BSFP: Blockchain-Enabled Smart Parking With Fairness, Reliability and Privacy Protection. IEEE Transactions on Vehicular Technology, 2020, 69, 6578-6591.	3.9	51
133	Spatial Anti-Jamming Scheme for Internet of Satellites Based on the Deep Reinforcement Learning and Stackelberg Game. IEEE Transactions on Vehicular Technology, 2020, 69, 5331-5342.	3.9	52
134	Anti-Jamming Routing For Internet of Satellites: a Reinforcement Learning Approach. , 2020, , .		6
135	A Shared Satellite Ground Station Using User-Oriented Virtualization Technology. IEEE Access, 2020, 8, 63923-63934.	2.6	14
136	An Adaboost Based Link Planning Scheme in Space-Air-Ground Integrated Networks. Mobile Networks and Applications, 2021, 26, 669-680.	2.2	3
137	Multiple gateway placement in largeâ€scale constellation networks with interâ€satellite links. International Journal of Satellite Communications and Networking, 2021, 39, 47-64.	1.2	18
138	Geographical addressing strategy for spaceâ€ground integrated network. International Journal of Satellite Communications and Networking, 2021, 39, 178-192.	1.2	2
139	Interference Geolocation in Satellite Communications Systems: An Overview. IEEE Vehicular Technology Magazine, 2021, 16, 66-74.	2.8	9
140	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. Science China Information Sciences, 2021, 64, 1.	2.7	858
141	A load-adaptive fair access protocol for MAC in underwater acoustic sensor networks. Journal of Network and Computer Applications, 2021, 173, 102867.	5.8	12
142	Joint UAV Position and Power Optimization for Accurate Regional Localization in Space-Air Integrated Localization Network. IEEE Internet of Things Journal, 2021, 8, 4841-4854.	5.5	20
143	Aviation Data Lake: Using Side Information to Enhance Future Air-Ground Vehicle Networks. IEEE Vehicular Technology Magazine, 2021, 16, 40-48.	2.8	16
144	Stochastic Delay Analysis for Satellite Data Relay Networks With Heterogeneous Traffic and Transmission Links. IEEE Transactions on Wireless Communications, 2021, 20, 156-170.	6.1	4

#	Article	IF	CITATIONS
145	Joint HAP Access and LEO Satellite Backhaul in 6G: Matching Game-Based Approaches. IEEE Journal on Selected Areas in Communications, 2021, 39, 1147-1159.	9.7	71
146	Drone-Cell Trajectory Planning and Resource Allocation for Highly Mobile Networks: A Hierarchical DRL Approach. IEEE Internet of Things Journal, 2021, 8, 9800-9813.	5.5	34
147	Priority-Aware Fast MAC Protocol for UAV-Assisted Industrial IoT Systems. IEEE Access, 2021, 9, 57089-57106.	2.6	8
148	ANT-Centric IoT Security Reference Architecture—Security-by-Design for Satellite-Enabled Smart Cities. IEEE Internet of Things Journal, 2022, 9, 5895-5908.	5.5	32
149	Toward Physical Layer Security and Efficiency for SAGIN: A WFRFT-Based Parallel Complex-Valued Spectrum Spreading Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2819-2829.	4.7	8
150	Dynamical Control Domain Division for Software-Defined Satellite-Ground Integrated Vehicular Networks. IEEE Transactions on Network Science and Engineering, 2021, 8, 2732-2741.	4.1	4
151	Point-to-Point Communication in Integrated Satellite-Aerial 6G Networks: State-of-the-Art and Future Challenges. IEEE Open Journal of the Communications Society, 2021, 2, 1505-1525.	4.4	50
152	Deep Learning Techniques for Advancing 6G Communications in the Physical Layer. IEEE Wireless Communications, 2021, 28, 141-147.	6.6	12
153	Space-Air-Ground Integrated Multi-Domain Network Resource Orchestration Based on Virtual Network Architecture: A DRL Method. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2798-2808.	4.7	40
154	Distributed Resource Management Framework for IoS Against Malicious Jamming. IEEE Transactions on Communications, 2021, 69, 8271-8286.	4.9	7
155	Robust Multiuser Beamforming for IRS-Enhanced Near-Space Downlink Communications Coexisting With Satellite System. IEEE Internet of Things Journal, 2022, 9, 14900-14912.	5.5	12
156	Security and Privacy for 6G: A Survey on Prospective Technologies and Challenges. IEEE Communications Surveys and Tutorials, 2021, 23, 2384-2428.	24.8	140
157	UAV-LEO Integrated Backbone: A Ubiquitous Data Collection Approach for B5G Internet of Remote Things Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 3491-3505.	9.7	62
158	Performance Analysis of a UAV-Assisted RF/FSO Relaying Systems for Internet of Vehicles. IEEE Internet of Things Journal, 2022, 9, 5730-5741.	5.5	16
159	Cost-Aware Dynamic SFC Mapping and Scheduling in SDN/NFV-Enabled Space–Air–Ground-Integrated Networks for Internet of Vehicles. IEEE Internet of Things Journal, 2022, 9, 5824-5838.	5.5	42
160	Coalitional Dynamic Graph Game for Aeronautical <i>Ad Hoc</i> Network Formation. IEEE Internet of Things Journal, 2022, 9, 5773-5784.	5.5	3
161	Performance Analysis of Cooperative Nonorthogonal Multiple Access Scheme in Two-Layer GEO/LEO Satellite Network. IEEE Systems Journal, 2022, 16, 2300-2310.	2.9	7
162	Energy-Constrained Computation Offloading in Space-Air-Ground Integrated Networks Using Distributionally Robust Optimization. IEEE Transactions on Vehicular Technology, 2021, 70, 12113-12125.	3.9	28

#	Article	IF	CITATIONS
163	Graph-Based Resource Allocation for Air-Ground Integrated Networks. Mobile Networks and Applications, 2022, 27, 492-501.	2.2	2
164	Stochastic Geometry-Based Analysis of Cache-Enabled Hybrid Satellite-Aerial-Terrestrial Networks With Non-Orthogonal Multiple Access. IEEE Transactions on Wireless Communications, 2022, 21, 1272-1287.	6.1	25
165	The Role of Millimeter-Wave Technologies in 5G/6G Wireless Communications. IEEE Journal of Microwaves, 2021, 1, 101-122.	4.9	312
166	On Enabling Mobile Crowd Sensing for Data Collection in Smart Agriculture: A Vision. IEEE Systems Journal, 2022, 16, 132-143.	2.9	16
167	Civil Aircrafts Augmented Space–Air–Ground-Integrated Vehicular Networks: Motivation, Breakthrough, and Challenges. IEEE Internet of Things Journal, 2022, 9, 5670-5683.	5.5	13
168	Downlink resource allocations of satellite–airborne–terrestrial networks integration. Advances in Computers, 2021, , 1-40.	1.2	0
169	Service-Oriented Dynamic Resource Slicing and Optimization for Space-Air-Ground Integrated Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7469-7483.	4.7	30
170	Comprehensive Survey on Machine Learning in Vehicular Network: Technology, Applications and Challenges. IEEE Communications Surveys and Tutorials, 2021, 23, 2027-2057.	24.8	92
171	NOMA-based Proactive Content Caching in Hybrid Satellite-Aerial-Terrestrial Networks. , 2021, , .		3
172	A Tutorial on Ultrareliable and Low-Latency Communications in 6C: Integrating Domain Knowledge Into Deep Learning. Proceedings of the IEEE, 2021, 109, 204-246.	16.4	182
173	A Distributed Identifier Mapping Resolving System for Space-Air-Ground Integrated Network. , 2021, , .		2
174	Fairness-Improved Resource Allocation for QoS-Guaranteed Satellite-based Internet of Thing. , 2021, , .		2
175	Non-Terrestrial Networks in the 6G Era: Challenges and Opportunities. IEEE Network, 2021, 35, 244-251.	4.9	219
176	Research on Staring Beamforming Algorithm of Spaceborne Phased Array. , 2021, , .		1
177	A Collaborative Planning Method of Space-Ground Sensor Network Coverage Optimization for Multiparameter Observation Tasks. IEEE Sensors Journal, 2021, 21, 8384-8399.	2.4	3
178	Trust based task offloading scheme in UAV-enhanced edge computing network. Peer-to-Peer Networking and Applications, 2021, 14, 3268-3290.	2.6	19
179	UAV Control in Smart City Based on Space-Air-Ground Integrated Network. , 2021, , .		3
180	Dynamic Channel Reservation Strategy Based on DQN Algorithm for Multi-Service LEO Satellite	3.2	5

#	Article	IF	CITATIONS
181	Gateway Placement Optimization in LEO Satellite Networks Based on Traffic Estimation. IEEE Transactions on Vehicular Technology, 2021, 70, 3860-3876.	3.9	12
182	Space Air Ground Integrated Network: Coverage for Accident Monitoring. , 2021, , .		2
183	Joint UAV Access and GEO Satellite Backhaul in IoRT Networks: Performance Analysis and Optimization. IEEE Internet of Things Journal, 2021, 8, 7126-7139.	5.5	22
184	Ultra-Dense LEO Satellite Based Formation Flying. IEEE Transactions on Communications, 2021, 69, 3091-3105.	4.9	12
185	Research on Task-Oriented Computation Offloading Decision in Space-Air-Ground Integrated Network. Future Internet, 2021, 13, 128.	2.4	2
186	Green UAV communications for 6G: A survey. Chinese Journal of Aeronautics, 2022, 35, 19-34.	2.8	91
187	THz channel modeling: Consolidating the road to THz communications. China Communications, 2021, 18, 33-49.	2.0	18
188	Transmission Control of Cross-Regional Heterogeneous Networks for Direct Position Determination. Wireless Communications and Mobile Computing, 2021, 2021, 1-8.	0.8	0
189	Throughput of distributed queueing-based LoRa for long-distance communication. Eurasip Journal on Advances in Signal Processing, 2021, 2021, .	1.0	1
190	An ACO-based cross-layer routing algorithm in space-air-ground integrated networks. Peer-to-Peer Networking and Applications, 2021, 14, 3372-3387.	2.6	2
191	Max Completion Time Optimization for Internet of Things in LEO Satellite-Terrestrial Integrated Networks. IEEE Internet of Things Journal, 2021, 8, 9981-9994.	5.5	24
192	Hybrid Satellite-Terrestrial Communication Networks for the Maritime Internet of Things: Key Technologies, Opportunities, and Challenges. IEEE Internet of Things Journal, 2021, 8, 8910-8934.	5.5	142
193	Satellite routing in space-air-ground integrated IoT networks. , 2021, , .		4
194	Group-based Handover Authentication for Space-Air-Ground Integrated Vehicular Networks. , 2021, , .		5
195	HAPS-Based Relaying for Integrated Space–Air–Ground Networks With Hybrid FSO/RF Communication: A Performance Analysis. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 1581-1599.	2.6	77
196	Terahertz Ultra-Massive MIMO-Based Aeronautical Communications in Space-Air-Ground Integrated Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 1741-1767.	9.7	46
197	Failure-Based Multi-Controller Placement in Software Defined Satellite Networking. , 2021, , .		3
198	Modeling Ground-Air Wireless Connectivity: Continuous Connection Probability Analysis. IEEE Transactions on Wireless Communications, 2021, 20, 3611-3627.	6.1	0

# 199	ARTICLE Location-Based Timing Advance Estimation for 5G Integrated LEO Satellite Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 6002-6017.	IF 3.9	CITATIONS 20
200	Distortion minimization for multimedia transmission in NOMA HAP-UAV integrated aerial access networks. Chinese Journal of Aeronautics, 2022, 35, 81-94.	2.8	2
202	Co-governed Space-Terrestrial Integrated Network Architecture and Prototype Based on MIN. , 2021, , .		1
203	Survey on Space-air-ground Integrated Networks in 6C. , 2021, , .		6
204	Computing over Space-Air-Ground Integrated Networks: Challenges and Opportunities. IEEE Network, 2021, 35, 302-309.	4.9	45
205	Vehicular intelligence in 6C: Networking, communications, and computing. Vehicular Communications, 2022, 33, 100399.	2.7	36
206	Traffic Allocation for Heterogeneous Links in Satellite Data Relay Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 8065-8079.	3.9	4
207	HAP-Reserved Communications in Space-Air-Ground Integrated Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 8286-8291.	3.9	13
208	Decentralized Anonymous Authentication With Fair Billing for Space-Ground Integrated Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 7764-7777.	3.9	14
209	A review on 6G for space-air-ground integrated network: Key enablers, open challenges, and future direction. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 6949-6976.	2.7	24
210	Enabling Massive IoT Toward 6G: A Comprehensive Survey. IEEE Internet of Things Journal, 2021, 8, 11891-11915.	5.5	282
211	Cross-Modal Deep Neural Networks based Smartphone Authentication for Intelligent Things System. , 2021, , .		2
212	5G Embraces Satellites for 6G Ubiquitous IoT: Basic Models for Integrated Satellite Terrestrial Networks. IEEE Internet of Things Journal, 2021, 8, 14399-14417.	5.5	116
213	UV-CDS: An Energy-Efficient Scheduling of UAVs for Premises Sterilization. IEEE Transactions on Green Communications and Networking, 2021, 5, 1191-1201.	3.5	8
214	A perspective on 6G: Requirement, technology, enablers, challenges and future road map. Journal of Systems Architecture, 2021, 118, 102180.	2.5	25
215	The Potential of Multilayered Hierarchical Nonterrestrial Networks for 6G: A Comparative Analysis Among Networking Architectures. IEEE Vehicular Technology Magazine, 2021, 16, 99-107.	2.8	25
216	QoTa-MPR: QoS-oriented and traffic-aware multi-path routing protocol for internet of remote things. Telecommunication Systems, 2021, 78, 515.	1.6	1
217	Airplane-Aided Integrated Next-Generation Networking. IEEE Transactions on Vehicular Technology, 2021, 70, 9345-9354.	3.9	7

#	Article	IF	CITATIONS
218	Modeling of UAV/RPAS data traffic in space, air, and ground networks. Journal of Field Robotics, 2022, 39, 5-13.	3.2	3
219	Joint UAV Position Optimization and Resource Scheduling in Space-Air-Ground Integrated Networks With Mixed Cloud-Edge Computing. IEEE Systems Journal, 2021, 15, 3992-4002.	2.9	67
220	Kalman prediction-based virtual network experimental platform for smart living. Computer Communications, 2021, 177, 156-165.	3.1	1
221	ASER: Scalable Distributed Routing Protocol for LEO Satellite Networks. , 2021, , .		13
222	A Non-Stationary Geometry-Based MIMO Channel Model for Millimeter-Wave UAV Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 2960-2974.	9.7	35
223	Reconfigurable Intelligent Surface-Assisted Aerial-Terrestrial Communications via Multi-Task Learning. IEEE Journal on Selected Areas in Communications, 2021, 39, 3035-3050.	9.7	57
224	Intelligent Hybrid Nonorthogonal Multiple Access Relaying for Vehicular Networks in 6G. IEEE Internet of Things Journal, 2021, 8, 14773-14786.	5.5	14
225	Architecture design and performance analysis of a novel memory system for high-bandwidth onboard switching fabric. Computer Networks, 2021, 198, 108367.	3.2	2
226	Massive Access in Space-Based Internet of Things: Challenges, Opportunities, and Future Directions. IEEE Wireless Communications, 2021, 28, 118-125.	6.6	29
228	Machine-Learning-Aided Trajectory Prediction and Conflict Detection for Internet of Aerial Vehicles. IEEE Internet of Things Journal, 2022, 9, 5882-5894.	5.5	11
229	PPTM: A Privacy-Preserving Trust Management Scheme for Emergency Message Dissemination in Space–Air–Ground-Integrated Vehicular Networks. IEEE Internet of Things Journal, 2022, 9, 5943-5956.	5.5	28
230	Joint Gateway Selection and Resource Allocation for Cross-Tier Communication in Space-Air-Ground Integrated IoT Networks. IEEE Access, 2021, 9, 4303-4314.	2.6	14
231	A Survey of Wireless Networks for Future Aerial Communications (FACOM). IEEE Communications Surveys and Tutorials, 2021, 23, 2833-2884.	24.8	48
232	QA2: QoS-Guaranteed Access Assistance for Space–Air–Ground Internet of Vehicle Networks. IEEE Internet of Things Journal, 2022, 9, 5684-5695.	5.5	9
233	Data Aggregation in UAV-Aided Random Access for Internet of Vehicles. IEEE Internet of Things Journal, 2022, 9, 5755-5764.	5.5	22
234	Secure and Personalized Edge Computing Services in 6G Heterogeneous Vehicular Networks. IEEE Internet of Things Journal, 2022, 9, 5920-5931.	5.5	41
235	Adaptive-Combining-Based Hybrid FSO/RF Satellite Communication With and Without HAPS. IEEE Access, 2021, 9, 81492-81511.	2.6	36
236	Opportunistic Federation of CubeSat Constellations: A Game-Changing Paradigm Enabling Enhanced IoT Services in the Sky. IEEE Internet of Things Journal, 2022, 9, 14876-14890.	5.5	5

#	Article	IF	CITATIONS
237	Efficient Task Allocation Protocol for a Hybrid-Hierarchical Spatial-Aerial-Terrestrial Edge-Centric IoT Architecture. IEICE Transactions on Communications, 2022, E105.B, 116-130.	0.4	3
238	Adaptive Transmission With Frequency-Domain Precoding and Linear Equalization Over Fast Fading Channels. IEEE Transactions on Wireless Communications, 2021, 20, 7420-7430.	6.1	7
239	Processing-While-Transmitting: Cost-Minimized Transmission in SDN-Based STINs. IEEE/ACM Transactions on Networking, 2022, 30, 243-256.	2.6	6
240	An Intelligent Relay Node Selection Scheme in Space-Air-Ground Integrated Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 157-167.	0.2	2
241	Addressing spectrum efficiency through hybrid-duplex UAV communications: Challenges and opportunities. Vehicular Communications, 2020, 24, 100235.	2.7	5
242	UAV-Aided Wireless Communication Design With Energy Constraint in Space-Air-Ground Integrated Green IoT Networks. IEEE Access, 2020, 8, 86251-86261.	2.6	36
243	RPAS COMMUNICATION CHANNELS BASED ON WCDMA 3GPP STANDARD. Aviation, 2020, 24, 42-49.	0.7	11
244	Maximum Flow Routing Strategy for Space Information Network With Service Function Constraints. IEEE Transactions on Wireless Communications, 2022, 21, 2909-2923.	6.1	8
245	Design and Implementation of Open Optical Satellite Network Emulation Platform (OOSN-EP) Based on Distributed Multi-Node System. , 2021, , .		1
246	IoT-Based Dynamic Map Attributes for Connected and Autonomous Vehicles. , 2021, , .		2
247	Coherent Contention Resolution Diversity Slotted ALOHA: An Improved Multiple Access Method for Satellite IoT System. Frontiers in Space Technologies, 2021, 2, .	0.0	1
		0.8	1
248	Branch-based Link Planning for Time-varying Space-air Integrated networks. , 2020, , .	0.8	1
248 250	Branch-based Link Planning for Time-varying Space-air Integrated networks. , 2020, , . Congestion Attack Detection in Intelligent Traffic Signal System: Combining Empirical and Analytical Methods. Security and Communication Networks, 2021, 2021, 1-17.	1.0	1
248 250 251	Branch-based Link Planning for Time-varying Space-air Integrated networks. , 2020, , . Congestion Attack Detection in Intelligent Traffic Signal System: Combining Empirical and Analytical Methods. Security and Communication Networks, 2021, 2021, 1-17. Figo: Mobility-Aware In-Flight Service Assignment and Reconfiguration with Deep Q-Learning. , 2020, , .	1.0	1 3 1
248 250 251 252	Branch-based Link Planning for Time-varying Space-air Integrated networks. , 2020, , . Congestion Attack Detection in Intelligent Traffic Signal System: Combining Empirical and Analytical Methods. Security and Communication Networks, 2021, 2021, 1-17. Figo: Mobility-Aware In-Flight Service Assignment and Reconfiguration with Deep Q-Learning. , 2020, , . Theoretical and Simulation-based Analysis of Terrestrial Interference to LEO Satellite Uplinks. , 2020, , .	1.0	1 3 1 11
248 250 251 252 253	Branch-based Link Planning for Time-varying Space-air Integrated networks. , 2020, , . Congestion Attack Detection in Intelligent Traffic Signal System: Combining Empirical and Analytical Methods. Security and Communication Networks, 2021, 2021, 1-17. Figo: Mobility-Aware In-Flight Service Assignment and Reconfiguration with Deep Q-Learning. , 2020, , . Theoretical and Simulation-based Analysis of Terrestrial Interference to LEO Satellite Uplinks. , 2020, , . Feeder Communication for Integrated Networks. IEEE Wireless Communications, 2020, 27, 20-27.	6.6	1 3 1 11 10
248 250 251 252 253 254	Branch-based Link Planning for Time-varying Space-air Integrated networks. , 2020, , . Congestion Attack Detection in Intelligent Traffic Signal System: Combining Empirical and Analytical Methods. Security and Communication Networks, 2021, 2021, 1-17. Figo: Mobility-Aware In-Flight Service Assignment and Reconfiguration with Deep Q-Learning. , 2020, , . Theoretical and Simulation-based Analysis of Terrestrial Interference to LEO Satellite Uplinks. , 2020, , . Feeder Communication for Integrated Networks. IEEE Wireless Communications, 2020, 27, 20-27. Optimal Throughput Allocation in Air-to-Ground Networks. , 2020, , .	0.8 1.0 6.6	1 3 1 11 10 2

#	Article	IF	CITATIONS
256	Three-Dimensional Modeling of Millimeter-Wave MIMO Channels for UAV-Based Communications. , 2020, , .		5
257	Multi-Authority CP-ABE with Dynamical Revocation in Space-Air-Ground Integrated Network. , 2020, , .		3
258	Cooperative Resource Allocation in Integrated Terrestrial/Non-Terrestrial 5G and Beyond Networks. , 2020, , .		6
259	3D On and Off-Grid Dynamic Channel Tracking for Multiple UAVs and Satellite Communications. IEEE Transactions on Wireless Communications, 2022, 21, 3587-3604.	6.1	1
260	A Survey on Millimeter-Wave Beamforming Enabled UAV Communications and Networking. IEEE Communications Surveys and Tutorials, 2022, 24, 557-610.	24.8	135
261	Key Technologies of Space-Air-Ground Integrated Network: A Comprehensive Review. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 63-80.	0.2	1
262	Speech Emotion Recognition Enhanced Traffic Efficiency Solution for Autonomous Vehicles in a 5G-Enabled Space–Air–Ground Integrated Intelligent Transportation System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2830-2842.	4.7	89
263	Resource and Network Management for Satellite Communications Systems: A Chance-Constrained Approach. IFAC-PapersOnLine, 2020, 53, 3304-3309.	0.5	0
264	Software-Defined Space-Air-Ground Integrated Network Architecture with the Multi-Layer Satellite Backbone Network. Computers, Materials and Continua, 2020, 64, 527-540.	1.5	5
265	Architecture and Key Technology Challenges of Future Space-Based Networks. Lecture Notes in Electrical Engineering, 2020, , 2223-2229.	0.3	0
266	Sum-Rate Maximization for UAV Aided Wireless Power Transfer in Space-Air-Ground Networks. IEEE Access, 2020, 8, 216231-216244.	2.6	8
267	On-Grid 3D Dynamic Channel Tracking for Space-Air Communications with Multiple UAVs. , 2021, , .		1
268	Cooperative Regional Caching and Distribution in Space-Terrestrial Integrated Networks. , 2021, , .		2
270	On Smart IoT Remote Sensing over Integrated Terrestrial-Aerial-Space Networks: An Asynchronous Federated Learning Approach. IEEE Network, 2021, 35, 129-135.	4.9	23
272	Non-coherent OFDM-Subcarrier Power Modulation for Low Complexity and High Throughput IoT Applications. , 2020, 1, .		3
273	A Survey on Space-Air-Ground-Sea Integrated Network Security in 6G. IEEE Communications Surveys and Tutorials, 2022, 24, 53-87.	24.8	140
274	Key Technologies in 6G SAGS IoT: Shape-Adaptive Antenna and Radar-Communication Integration. IEEE Network, 2021, 35, 150-157.	4.9	9
275	Challenges and Opportunities in Space Service Computing. , 2021, , .		1

#	Article	IF	CITATIONS
276	5G Multi-Service-Oriented User Association and Routing Algorithm for Integrated Terrestrial-Satellite Networks. , 2021, , .		0
278	Learning-Based Computation Offloading for IoRT Through Ka/Q-Band Satellite–Terrestrial Integrated Networks. IEEE Internet of Things Journal, 2022, 9, 12056-12070.	5.5	12
279	Blockchain-Empowered Space-Air-Ground Integrated Networks: Opportunities, Challenges, and Solutions. IEEE Communications Surveys and Tutorials, 2022, 24, 160-209.	24.8	66
280	Efficient Resource Allocation for Multi-Beam Satellite-Terrestrial Vehicular Networks: A Multi-Agent Actor-Critic Method With Attention Mechanism. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2727-2738.	4.7	15
281	Space-Air-Ground Integrated Network Development and Applications in High-Speed Railways: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10066-10085.	4.7	12
282	Al Models for Green Communications Towards 6G. IEEE Communications Surveys and Tutorials, 2022, 24, 210-247.	24.8	104
283	On the Prediction Policy for Timely Status Updates in Space-Air-Ground Integrated Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2716-2726.	4.7	4
284	Envisioning Intelligent Reflecting Surface Empowered Space-Air-Ground Integrated Network. IEEE Network, 2021, 35, 225-232.	4.9	13
285	Heterogeneous Traffic Offloading in Space-Air-Ground Integrated Networks. IEEE Access, 2021, 9, 165462-165475.	2.6	14
286	A Non-Stationary 3D Model for 6G Massive MIMO mmWave UAV Channels. IEEE Transactions on Wireless Communications, 2022, 21, 4325-4339.	6.1	36
287	A Deep Reinforcement Learning-Based Dynamic Traffic Offloading in Space-Air-Ground Integrated Networks (SAGIN). IEEE Journal on Selected Areas in Communications, 2022, 40, 276-289.	9.7	49
288	Data Transmission Time Minimization for LEO Satellite-Terrestrial Integrated Networks. , 2020, , .		1
289	Space Air Ground Integrated Network: Communication Network for Air Traffic Control. , 2020, , .		2
290	Dynamic Spectrum Slicing and Optimization in SAG Integrated Vehicular Networks. , 2020, , .		1
291	Elastic Resilience for Software-Defined Satellite Networking: Challenges, Solutions, and Open Issues. IT Professional, 2020, 22, 39-45.	1.4	8
292	Adaptive Transmission Based on MMSE Equalization over Fast Fading Channels. , 2020, , .		2
293	Detection and Communication of Disasters with Space-Air-Ground Integrated Network. , 2020, , .		7
295	Performance Analysis of HAPS Assisted Dual-Hop Hybrid RF/FSO System. , 2021, , .		3

#	Article	IF	CITATIONS
297	Blockchain-Based Multi-party Cooperation and Resource-Sharing Scheme for Space-Air-Ground Integrated Networks. , 2021, , .		3
298	Weighted Sum-Rate Maximization for Multi-IRS Aided Integrated Terrestrial-Satellite Networks. , 2021, , \cdot		1
299	4G to 6G: disruptions and drivers for optical access [Invited]. Journal of Optical Communications and Networking, 2022, 14, A143.	3.3	31
300	Dynamic Beam Pattern and Bandwidth Allocation Based on Multi-Agent Deep Reinforcement Learning for Beam Hopping Satellite Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 3917-3930.	3.9	35
301	Integrated Satellite-Terrestrial Networks Toward 6G: Architectures, Applications, and Challenges. IEEE Internet of Things Journal, 2022, 9, 437-461.	5.5	98
302	Age-Oriented Transmission Protocol Design in Space-Air-Ground Integrated Networks. IEEE Transactions on Wireless Communications, 2022, 21, 5573-5585.	6.1	10
303	A Dynamic Handover Software-Defined Transmission Control Scheme in Space-Air-Ground Integrated Networks. IEEE Transactions on Wireless Communications, 2022, 21, 6110-6124.	6.1	6
304	Edge Artificial Intelligence for 6C: Vision, Enabling Technologies, and Applications. IEEE Journal on Selected Areas in Communications, 2022, 40, 5-36.	9.7	206
305	Investigation and demonstration of allâ€optical hybrid fiberâ€FSOâ€fiber CDMA communication system. IET Communications, 0, , .	1.5	0
307	Pheromone Incentivized Intelligent Multipath Traffic Scheduling Approach for LEO Satellite Networks. IEEE Transactions on Wireless Communications, 2022, 21, 5889-5902.	6.1	7
308	An Efficient Correlation-Based Reception Scheme for Satellite Communications. IEEE Communications Letters, 2022, 26, 1111-1115.	2.5	1
309	UAV-Assisted RF/FSO Relay System for Space-Air-Ground Integrated Network: A Performance Analysis. IEEE Transactions on Wireless Communications, 2022, 21, 6211-6225.	6.1	35
310	Edge Computing-Based Layered Video Streaming Over Integrated Satellite and Terrestrial 5G Networks. IEEE Access, 2022, 10, 19971-19985.	2.6	1
311	Joint CCI Mitigation and Power Control for MC-DS-CDMA in LEO Satellite Networks. IEEE Internet of Things Journal, 2022, 9, 17627-17639.	5.5	3
312	Energy-Efficient UAV-Aided Ocean Monitoring Networks: Joint Resource Allocation and Trajectory Design. IEEE Internet of Things Journal, 2022, 9, 17871-17884.	5.5	6
316	Cache Allocation Scheme in Information-Centric Satellite-Terrestrial Integrated Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 192-205.	0.2	0
317	Let Us Work Together: Cooperative Beamforming for UAV Anti-Jamming in Space–Air–Ground Networks. IEEE Internet of Things Journal, 2022, 9, 15607-15617.	5.5	6
318	Machine Learning Techniques for UAV Trajectory Optimization—A Survey. Studies in Computational Intelligence, 2022, , 35-44.	0.7	1

#	Article	IF	CITATIONS
319	MPTCP Performance Simulation in Multiple LEO Satellite Environment. , 2022, , .		3
320	NOMA-Based Energy-Efficiency Optimization for UAV Enabled Space-Air-Ground Integrated Relay Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 4129-4141.	3.9	22
321	A Secure and Efficient Authentication Protocol for Satellite-Terrestrial Networks. IEEE Internet of Things Journal, 2023, 10, 5810-5822.	5.5	6
322	Multi-Controller Deployment in SDN-Enabled 6G Space–Air–Ground Integrated Network. Remote Sensing, 2022, 14, 1076.	1.8	17
323	A Power Efficiency Wireless Communication Networks by Early Detection of Wrong Decision Probability in Handover Traffic. Wireless Communications and Mobile Computing, 2022, 2022, 1-7.	0.8	1
324	Toward Integrated Large-Scale Environmental Monitoring Using WSN/UAV/Crowdsensing: A Review of Applications, Signal Processing, and Future Perspectives. Sensors, 2022, 22, 1824.	2.1	45
325	An Efficient Authentication and Key Distribution Protocol for Multicast Service in Space-Ground Integration Network. Security and Communication Networks, 2022, 2022, 1-14.	1.0	0
326	Machine Learning-Based Satellite Routing for SAGIN IoT Networks. Electronics (Switzerland), 2022, 11, 862.	1.8	5
327	Mobility management in space-ground-integrated networks. Computing (Vienna/New York), 2022, 104, 1551-1564.	3.2	1
328	All-Domain Fusion-Based Time Synchronization Protocol in SD-ATSN. Mobile Information Systems, 2022, 2022, 1-16.	0.4	0
329	EC-SAGINs: Edge-Computing-Enhanced Space–Air–Ground-Integrated Networks for Internet of Vehicles. IEEE Internet of Things Journal, 2022, 9, 5742-5754.	5.5	59
330	Communication Technologies in Emergency Situations. Electronics (Switzerland), 2022, 11, 1155.	1.8	6
331	A resource friendly authentication scheme for space–air–ground–sea integrated Maritime Communication Network. Ocean Engineering, 2022, 250, 110894.	1.9	15
332	Deep Reinforcement Learning Based Data Offloading in Multi-Layer Ka/Q Band LEO Satellite-Terrestrial Networks. , 2021, , .		1
333	Dynamic resource allocation of network function virtualization for Space-Air-Ground Integrated Energy Internet. , 2021, , .		0
334	Recent Advances in New Materials for 6G Communications. Advanced Electronic Materials, 2022, 8, .	2.6	6
335	Handover Authentication Mechanism Based on Consensus and Ticket for Space Information Network. , 2021, , .		0
336	Internet of Things in Space: A Review of Opportunities and Challenges from Satellite-Aided Computing to Digitally-Enhanced Space Living. Sensors, 2021, 21, 8117.	2.1	26

#	Article	IF	CITATIONS
337	LB-DDQN for Handover Decision in Satellite-Terrestrial Integrated Networks. Wireless Communications and Mobile Computing, 2021, 2021, 1-11.	0.8	2
338	Blockchain-Envisioned Unmanned Aerial Vehicle Communications in Space-Air-Ground Integrated Network: A Review. Intelligent and Converged Networks, 2021, 2, 277-294.	3.2	12
339	A Blockchain-Based Authentication Protocol Using Cryptocurrency Technology in LEO Satellite Networks. Electronics (Switzerland), 2021, 10, 3151.	1.8	6
340	Balancing Efficiency and Security for Network Access Control in Space-Air-Ground Integrated Networks. , 2021, , .		0
341	Homa: Online In-Flight Service Provisioning With Dynamic Bipartite Matching. IEEE Transactions on Network and Service Management, 2022, 19, 3174-3187.	3.2	4
342	From 5G to 6G—Challenges, Technologies, and Applications. Future Internet, 2022, 14, 117.	2.4	41
343	Space-Air-Ground Integrated 6G Wireless Communication Networks: A Review of Antenna Technologies and Application Scenarios. Sensors, 2022, 22, 3136.	2.1	42
344	Deep Learning Aided Routing for Space-Air-Ground Integrated Networks Relying on Real Satellite, Flight, and Shipping Data. IEEE Wireless Communications, 2022, 29, 177-184.	6.6	12
345	On Data Collection in SIC-Capable Space–Air–Ground Integrated IoT Networks. IEEE Systems Journal, 2023, 17, 1431-1442.	2.9	0
346	What Will the Future of UAV Cellular Communications Be? A Flight From 5G to 6G. IEEE Communications Surveys and Tutorials, 2022, 24, 1304-1335.	24.8	94
347	Civil Aircraft Assisted Space-Air-Ground Integrated Networks: An Innovative NTN of 5G and Beyond. IEEE Wireless Communications, 2022, 29, 64-71.	6.6	5
348	DAG-Based Smart Contract for Dynamic 6G Wireless EVs Charging System. IEEE Transactions on Green Communications and Networking, 2022, 6, 1459-1467.	3.5	4
349	Creating Efficient Integrated Satellite-Terrestrial Networks in the 6G Era. IEEE Wireless Communications, 2022, 29, 154-160.	6.6	8
350	Grant Free Age-Optimal Random Access Protocol for Satellite-Based Internet of Things. IEEE Transactions on Communications, 2022, 70, 3947-3961.	4.9	8
351	Network Coding-Based Capacity Optimization for Space Dynamic Network. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 38-50.	0.2	1
352	An Ant Colony Optimization-Based Routing Algorithm for Load Balancing in LEO Satellite Networks. Wireless Communications and Mobile Computing, 2022, 2022, 1-18.	0.8	13
353	A QoE Driven Cross-Domain Management Architecture for Space-Air-Ground Integrated Network. Wireless Communications and Mobile Computing, 2022, 2022, 1-14.	0.8	0
354	Multiagent Reinforcement Learning for Task Offloading of Space/Aerial-Assisted Edge Computing. Security and Communication Networks, 2022, 2022, 1-10.	1.0	1

# 355	ARTICLE Space-Air-Ground Integrated Mobile Crowdsensing for Partially Observable Data Collection by Multi-Scale Convolutional Graph Reinforcement Learning. Entropy, 2022, 24, 638.	lF 1.1	CITATIONS
356	Recent Progress of Air/Water Cross-Boundary Communications for Underwater Sensor Networks: A Review. IEEE Sensors Journal, 2022, 22, 8360-8382.	2.4	29
357	A journey towards fully autonomous driving - fueled by a smart communication system. Vehicular Communications, 2022, 36, 100476.	2.7	6
359	Energy Efficient Hybrid Offloading in Space-Air-Ground Integrated Networks. , 2022, , .		6
360	Review and Perspectives of Micro/Nano Technologies as Key-Enablers of 6G. IEEE Access, 2022, 10, 55428-55458.	2.6	15
361	A Multi-dimensional Resource Modeling Method Based on Tree Structure in Space-Air-Ground Integrated Network. , 2022, , .		0
362	A Novel Secured Multi-Access Edge Computing based VANET with Neuro fuzzy systems based Blockchain Framework. Computer Communications, 2022, 192, 48-56.	3.1	31
363	Olive Branch Learning: A Novel Federated Learning Framework for Space-Air-Ground Integrated Network. , 2021, , .		2
364	Cooperative Task Processing for the Internet of Remote Things through Ultra-Dense Satellite Systems. , 2021, , .		1
365	Vision for Space-Air-Ground Integrated Radar Network. , 2021, , .		0
366	Age-Optimal Network Coding HARQ Transmission Scheme for Dual-Hop Satellite-Integrated Internet. IEEE Transactions on Vehicular Technology, 2022, 71, 10666-10682.	3.9	6
367	Channel Nonstationarity and Consistency for Beyond 5G and 6G: A Survey. IEEE Communications Surveys and Tutorials, 2022, 24, 1634-1669.	24.8	28
368	Optimal Gateway Placement for Minimizing Intersatellite Link Usage in LEO Megaconstellation Networks. IEEE Internet of Things Journal, 2022, 9, 22682-22694.	5.5	7
369	Location Management in Internet Protocol-Based Future LEO Satellite Networks: A Review. IEEE Open Journal of the Communications Society, 2022, 3, 1035-1062.	4.4	7
370	Joint Hybrid 3D Beamforming Relying on Sensor-Based Training for Reconfigurable Intelligent Surface Aided TeraHertz-Based Multiuser Massive MIMO Systems. IEEE Sensors Journal, 2022, 22, 14540-14552.	2.4	9
371	Blockchainâ€Empowered Dynamic Spectrum Management for Spaceâ€Airâ€Ground Integrated Network. Chinese Journal of Electronics, 2022, 31, 456-466.	0.7	9
372	Dynamic Routings in Satellite Networks: An Overview. Sensors, 2022, 22, 4552.	2.1	16
373	Software defined intelligent satellite-terrestrial integrated networks: Insights and challenges. Digital Communications and Networks, 2023, 9, 1331-1339.	2.7	5

			_
#	ARTICLE	IF	CITATIONS
374	Low computational complexity joint iterative detection and decoding without ARQ in massive MIMO systems with UAVs. Computer Communications, 2022, 192, 279-288.	3.1	2
375	Handover Strategy Based on Side Information in Air-Ground Integrated Vehicular Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 10823-10831.	3.9	3
376	KF-LSTM Based Beam Tracking for UAV-Assisted mmWave HSR Wireless Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 10796-10807.	3.9	2
377	A Non-Stationary 6G UAV Channel Model With 3D Continuously Arbitrary Trajectory and Self-Rotation. IEEE Transactions on Wireless Communications, 2022, 21, 10592-10606.	6.1	10
378	Multi-objective Intelligent Handover in Satellite-Terrestrial Integrated Networks. , 2022, , .		3
379	Towards Sustainable Multi-Tier Space Networking for LEO Satellite Constellations. , 2022, , .		4
380	A data-driven parallel adaptive large neighborhood search algorithm for a large-scale inter-satellite link scheduling problem. Swarm and Evolutionary Computation, 2022, 74, 101124.	4.5	4
381	A survey on the role of UAVs in the communication process: A technological perspective. Computer Communications, 2022, 194, 86-123.	3.1	10
382	Inter-networking and Function Optimization for Mega-Constellations. , 2022, , .		1
383	Dual pulse shaping transmission with sincâ€function based complementary Nyquist pulses. IET Communications, 2022, 16, 2091-2104.	1.5	2
384	Federated Learning for Intelligent Transmission with Space-Air-Ground Integrated Network toward 6C. IEEE Network, 2023, 37, 198-204.	4.9	7
385	How to Protect Key Drones in Unmanned Aerial Vehicle Networks? An SDN-Based Topology Deception Scheme. IEEE Transactions on Vehicular Technology, 2022, 71, 13320-13331.	3.9	4
386	An FPGA-Based Identifier Mapping Module Design for Space-Air-Ground Integrated Network. , 2022, , .		0
387	Delay-Aware Cooperative Caching for On-Chain Authentication in LEO Satellite Communication Systems. , 2022, , .		0
388	Operation and Key Technologies in Space-Air-Ground Integrated Network. , 2022, , .		2
389	Load Balancing Routing Algorithm with Traffic Pre-shunting in the LEO Satellite Network. , 2022, , .		1
390	NS-3-based 5G Satellite-Terrestrial Integrated Network Simulator. , 2022, , .		4
391	Interference Suppression by Directivity Control Towards Frequency Sharing for Space-Air-Ground Integrated Networks in Internet of Things. , 2022, , .		0

#	Article	IF	CITATIONS
392	IoT and Satellite Sensor Data Integration for Assessment of Environmental Variables: A Case Study on NO2. Sensors, 2022, 22, 5660.	2.1	4
393	Waypoint segment routing algorithm for LEO satellite network. IET Communications, 2022, 16, 2133-2144.	1.5	1
394	Resilience of space information network based on combination of complex networks and hypergraphs. Computer Communications, 2022, 195, 124-136.	3.1	3
395	Machine Learning for Space–Air–Ground Integrated Network Assisted Vehicular Network: A Novel Network Architecture for Vehicles. IEEE Vehicular Technology Magazine, 2022, 17, 34-44.	2.8	3
396	Antenna Array Enabled Space/Air/Ground Communications and Networking for 6G. IEEE Journal on Selected Areas in Communications, 2022, 40, 2773-2804.	9.7	27
397	Energy-Efficient Dynamic-Subarray With Fixed True-Time-Delay Design for Terahertz Wideband Hybrid Beamforming. IEEE Journal on Selected Areas in Communications, 2022, 40, 2840-2854.	9.7	13
398	Comprehensive performance analysis of hybrid FSO/RF space–air–ground integrated network. Optics Communications, 2023, 527, 128964.	1.0	5
399	Post-Disaster Communications: Enabling Technologies, Architectures, and Open Challenges. IEEE Open Journal of the Communications Society, 2022, 3, 1177-1205.	4.4	15
400	Analysis of Optical Satellite Communication Technology and Its Development Trend. SHS Web of Conferences, 2022, 144, 02013.	0.1	0
401	Cooperative Satellite-Aerial-Terrestrial Systems: A Stochastic Geometry Model. IEEE Transactions on Wireless Communications, 2023, 22, 220-236.	6.1	7
402	Digital Twins From a Networking Perspective. IEEE Internet of Things Journal, 2022, 9, 23525-23544.	5.5	14
403	Security of Satellite-Terrestrial Communications: Challenges and Potential Solutions. IEEE Access, 2022, 10, 96038-96052.	2.6	12
404	On the Performance and Optimization of HAPS Assisted Dual-Hop Hybrid RF/FSO System. IEEE Access, 2022, 10, 80976-80988.	2.6	4
405	Balancing QoS and Security in the Edge: Existing Practices, Challenges, and 6G Opportunities With Machine Learning. IEEE Communications Surveys and Tutorials, 2022, 24, 2419-2448.	24.8	17
406	A Lightweight Hierarchical AI Model for UAV-Enabled Edge Computing with Forest-Fire Detection Use-Case. IEEE Network, 2022, 36, 38-45.	4.9	5
407	Evolution of Non-Terrestrial Networks From 5G to 6G: A Survey. IEEE Communications Surveys and Tutorials, 2022, 24, 2633-2672.	24.8	81
408	Unmanned Aerial Vehicle Communications for Civil Applications: A Review. IEEE Access, 2022, 10, 102492-102531.	2.6	22
409	Energy-Efficient UAV-Based IoT Communications With WiFi Suppression in 5 GHz ISM Bands. IEEE Transactions on Vehicular Technology, 2023, 72, 2024-2039.	3.9	1

#	Article	IF	CITATIONS
410	A Non-Stationary Model With Time-Space Consistency for 6G Massive MIMO mmWave UAV Channels. IEEE Transactions on Wireless Communications, 2023, 22, 2048-2064.	6.1	7
411	Performance Evaluation of a Satellite Communication-Based MEC Architecture for IoT Applications. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 3775-3785.	2.6	10
412	A Novel Energy Efficiency Metric for Next-Generation Green Wireless Communication Network Design. IEEE Internet of Things Journal, 2023, 10, 1746-1760.	5.5	2
413	Wireless Backhaul in 5G and Beyond: Issues, Challenges and Opportunities. IEEE Communications Surveys and Tutorials, 2022, 24, 2579-2632.	24.8	26
414	Al in SAGIN: Building Deep Learning Service-Oriented Space-Air-Ground Integrated Networks. IEEE Network, 2022, , 1-7.	4.9	2
415	Sustainable Satellite Communications in the 6G Era: A European View for Multilayer Systems and Space Safety. IEEE Access, 2022, 10, 99973-100005.	2.6	10
416	Channel Estimation for Reconfigurable Intelligent Surface Assisted High-Mobility Wireless Systems. IEEE Transactions on Vehicular Technology, 2023, 72, 718-734.	3.9	13
417	Joint UAV Deployment and Power Allocation for Secure Space-Air-Ground Communications. IEEE Transactions on Communications, 2022, 70, 6804-6818.	4.9	8
418	Distance-Based Back-Pressure Routing for Load-Balancing LEO Satellite Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 1240-1253.	3.9	9
419	Aerial Edge Computing on Orbit: A Task Offloading and Allocation Scheme. IEEE Transactions on Network Science and Engineering, 2023, 10, 275-285.	4.1	23
420	Reinforcement Learning Assisted Bandwidth Aware Virtual Network Resource Allocation. IEEE Transactions on Network and Service Management, 2022, 19, 4111-4123.	3.2	5
421	RIS-Assisted Space-Air-Ground Integrated Networks: New Horizons for Flexible Access and Connectivity. IEEE Network, 2023, 37, 118-125.	4.9	1
422	Integrated Satellite-Terrestrial Networks: Architectures, Key Techniques, and Experimental Progress. IEEE Network, 2022, 36, 191-198.	4.9	5
423	A Survey on Nongeostationary Satellite Systems: The Communication Perspective. IEEE Communications Surveys and Tutorials, 2023, 25, 101-132.	24.8	35
424	Joint Flying Relay Location and Routing Optimization for 6G UAV–IoT Networks: A Graph Neural Network-Based Approach. Remote Sensing, 2022, 14, 4377.	1.8	29
425	Mobile Edge Computing in Space-Air-Ground Integrated Networks: Architectures, Key Technologies and Challenges. Journal of Sensor and Actuator Networks, 2022, 11, 57.	2.3	7
426	6C Mobile Communication Technology: Requirements, Targets, Applications, Challenges, Advantages, and Opportunities. AEJ - Alexandria Engineering Journal, 2023, 64, 245-274.	3.4	59
427	6G-Enabled Smart Agriculture: A Review and Prospect. Electronics (Switzerland), 2022, 11, 2845.	1.8	15

#	Article	IF	CITATIONS
428	Physical random access signal design for 5G mobile satellite communication systems. Physical Communication, 2022, , 101908.	1.2	3
429	Blockchain-Based Trusted Traffic Offloading in Space-Air-Ground Integrated Networks (SAGIN): A Federated Reinforcement Learning Approach. IEEE Journal on Selected Areas in Communications, 2022, 40, 3501-3516.	9.7	9
430	Intelligent Reflecting Surface-Aided Integrated Terrestrial-Satellite Networks. IEEE Transactions on Wireless Communications, 2023, 22, 2507-2522.	6.1	3
431	Swarm of UAVs for Network Management in 6C: A Technical Review. IEEE Transactions on Network and Service Management, 2023, 20, 741-761.	3.2	46
432	An Analytic Approach for Modeling Uplink Performance of Mega Constellations. IEEE Transactions on Vehicular Technology, 2023, 72, 2258-2268.	3.9	3
433	Paving the Way Towards 6G. Synthesis Lectures on Engineering Science and Technology, 2022, , 165-184.	0.2	0
434	Application of Artificial Intelligence for Space-Air-Ground-Sea Integrated Network. Lecture Notes in Electrical Engineering, 2022, , 88-102.	0.3	3
435	Research on Dynamic Spectrum Allocation of Space-Air-Ground Integration. Lecture Notes in Electrical Engineering, 2022, , 53-65.	0.3	4
436	UAV Cellular Communication in 5G New Radio Wireless Standards. Unmanned System Technologies, 2023, , 25-45.	0.9	2
437	Retrieval of Water Quality Parameters Based on Near-Surface Remote Sensing and Machine Learning Algorithm. Remote Sensing, 2022, 14, 5305.	1.8	8
438	Packet Losses in SAGIN with Artificial Intelligence. International Journal of Wireless Information Networks, 0, , .	1.8	0
439	An Adaptive Dynamic Channel Allocation Algorithm Based on a Temporal–Spatial Correlation Analysis for LEO Satellite Networks. Applied Sciences (Switzerland), 2022, 12, 10939.	1.3	0
440	A vision towards integrated 6G communication networks: Promising technologies, architecture, and use-cases. Physical Communication, 2022, 55, 101917.	1.2	10
441	A Framework of Hybrid Transceiver Optimizations With Eigenvalue Constraints for Multi-Hop Networks. IEEE Transactions on Wireless Communications, 2023, 22, 3144-3160.	6.1	2
442	Self-Organized and Distributed Green Resource Allocation for Space-Air-Ground IoT Networks. IEEE Internet of Things Journal, 2022, , 1-1.	5.5	0
443	Moving NFV Toward the Antenna Through FPGA-Based Hardware Reconfiguration. IEEE Communications Letters, 2023, 27, 342-346.	2.5	2
444	Computation Offloading for Rechargeable Users in Space-Air-Ground Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 3805-3818.	3.9	6
445	Joint Physical Layer Frame Optimization and Carrier Synchronization for Satellite Communications. IEEE Transactions on Vehicular Technology, 2023, 72, 3517-3531.	3.9	0

#	Article	IF	CITATIONS
446	A Systematic Survey: Security Threats to UAV-Aided IoT Applications, Taxonomy, Current Challenges and Requirements With Future Research Directions. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-19.	4.7	2
447	Energy-Efficient Space–Air–Ground Integrated Edge Computing for Internet of Remote Things: A Federated DRL Approach. IEEE Internet of Things Journal, 2023, 10, 4845-4856.	5.5	10
448	Enabling OTFS-TSMA for Smart Railways mMTC Over LEO Satellite: A Differential Doppler Shift Perspective. IEEE Internet of Things Journal, 2023, 10, 4799-4814.	5.5	1
449	SDN-based Federated Learning approach for Satellite-IoT Framework to Enhance Data Security and Privacy in Space Communication. , 2022, , .		5
450	Hybrid Satellite–Terrestrial Networks toward 6G: Key Technologies and Open Issues. Sensors, 2022, 22, 8544.	2.1	13
451	Energy-Efficient Controller Placement in Software-Defined Satellite-Terrestrial Integrated Network. Remote Sensing, 2022, 14, 5561.	1.8	0
452	Synthetic Deviation Correction Method for Tracking Satellite of the SOTM Antenna on High Maneuverability Carriers. Electronics (Switzerland), 2022, 11, 3732.	1.8	1
453	Delay Optimization for Cooperative Multi-Tier Computing in Integrated Satellite-Terrestrial Networks. IEEE Journal on Selected Areas in Communications, 2023, 41, 366-380.	9.7	8
454	Multi-Satellite Beam Hopping Based on Load Balancing and Interference Avoidance for NGSO Satellite Communication Systems. IEEE Transactions on Communications, 2023, 71, 282-295.	4.9	8
455	Efficient Fusion and Reconstruction for Communication and Sensing Signals in Green IoT Networks. IEEE Internet of Things Journal, 2023, 10, 9319-9328.	5.5	2
456	RIS-Assisted Ambient Backscatter Communication for SAGIN IoT. IEEE Internet of Things Journal, 2023, 10, 9375-9384.	5.5	2
457	Authentication for Satellite Communication Systems Using Physical Characteristics. IEEE Open Journal of Vehicular Technology, 2023, 4, 48-60.	3.4	9
458	Paving the Way Toward Mobile IAB: Problems, Solutions and Challenges. IEEE Open Journal of the Communications Society, 2022, 3, 2347-2379.	4.4	6
459	Unmanned-Aerial-Vehicle-Assisted Wireless Networks: Advancements, Challenges, and Solutions. IEEE Internet of Things Journal, 2023, 10, 4117-4147.	5.5	9
460	Physical Layer Authentication for Satellite Communication Systems Using Machine Learning. IEEE Open Journal of the Communications Society, 2022, 3, 2380-2389.	4.4	3
461	Balancing Total Energy Consumption and Mean Makespan in Data Offloading for Space-Air-Ground Integrated Networks. IEEE Transactions on Mobile Computing, 2024, 23, 209-222.	3.9	2
462	UAV-Assisted Satellite-Terrestrial Secure Communication Using Large-Scale Antenna Array With One-Bit ADCs/DACs. IEEE Transactions on Communications, 2023, 71, 580-594.	4.9	3
463	Olive Branch Learning: A Topology-Aware Federated Learning Framework for Space-Air-Ground Integrated Network. IEEE Transactions on Wireless Communications, 2023, 22, 4534-4551.	6.1	2

#	Article	IF	CITATIONS
464	Coordinated Scheduling of Air and Space Observation Resources via Divide-and-Conquer Framework and Iterative Optimization. IEEE Transactions on Aerospace and Electronic Systems, 2023, 59, 3631-3642.	2.6	1
465	Device Distribution Scheme of Random Access in Space-Air-Ground Integrated Network for Massive IoT. , 2022, , .		1
466	Space spider. , 2022, , .		0
467	Five Facets of 6G: Research Challenges and Opportunities. ACM Computing Surveys, 2023, 55, 1-39.	16.1	29
468	Threat analysis for space information network based on network security attributes: a review. Complex & Intelligent Systems, 2023, 9, 3429-3468.	4.0	4
469	Quantum secured 6G technology-based applications in Internet of Everything. Telecommunication Systems, 2023, 82, 315-344.	1.6	6
470	Link-State Aware Hybrid Routing in the Terrestrial–Satellite Integrated Network. Sensors, 2022, 22, 9124.	2.1	2
471	Can Livestock Farming Benefit from Industry 4.0 Technology? Evidence from Recent Study. Applied Sciences (Switzerland), 2022, 12, 12844.	1.3	2
472	Geolocation and Tracking by TDOA Measurements Based on Space–Air–Ground Integrated Network. Remote Sensing, 2023, 15, 44.	1.8	3
473	Joint power allocation and deployment optimization for HAP-assisted NOMA–MEC system. Wireless Networks, 0, , .	2.0	3
474	Physical Layer Security of HAPS-Based Space–Air–Ground-Integrated Network With Hybrid FSO/RF Communication. IEEE Transactions on Aerospace and Electronic Systems, 2023, 59, 4680-4688.	2.6	2
475	Adaptive Random Access and Data Transmission Scheme With Mixed Traffic in NGSO Satellite Networks. IEEE Transactions on Vehicular Technology, 2023, , 1-13.	3.9	0
476	Machine Learning Based Interference Mitigation for Intelligent Air-to-Ground Internet of Things. Electronics (Switzerland), 2023, 12, 248.	1.8	0
477	Outage probability and ergodic capacity analysis of satellite–terrestrial NOMA system with mixed RF/mmWave relaying. Physical Communication, 2023, 57, 101998.	1.2	1
478	Heterogeneous Mean-Field Multi-Agent Reinforcement Learning for Communication Routing Selection in SAGI-Net. , 2022, , .		0
479	Performance Analysis for Space-Air-Ground Integrated Passive Localization using TDOA Measurements. , 2022, , .		2
480	Spectrum Sharing in the Sky and Space: A Survey. Sensors, 2023, 23, 342.	2.1	2
481	Paris Subway Pricing-based Link Selection in Air-Space-Ground Networks. , 2022, , .		0

-		_	
C 1^{-}		Drnc	NDT.
	IAL	REPU	ואכ

#	Article	IF	CITATIONS
482	Near Space Communications: A New Regime in Space-Air-Ground Integrated Networks. IEEE Wireless Communications, 2022, 29, 38-45.	6.6	1
483	Aerial Assistant: Safeguarding Ground-to-Satellite Communication Networks. , 2022, , .		0
484	Intelligent Gateway Selection and User Scheduling in Non-Stationary Air-Ground Networks. , 2022, , .		0
485	Efficient Seamless Coverage of High Throughput Satellites with Irregular Coverage Shapes. , 2022, , .		0
486	Age-Aware Task Scheduling Scheme in Hybrid GEO-LEO Satellite Networks. , 2022, , .		1
487	Computation Offloading and Energy Harvesting Schemes for Sum Rate Maximization in Space-Air-Ground Networks. , 2022, , .		2
488	SFC Enabled Data Delivery for Ultra-Dense LEO Satellite-Terrestrial Integrated Network. , 2022, , .		0
489	Satellite Relay Task Scheduling Based on Dynamic Antenna Setup Time and Splittable Task. , 2022, , .		0
490	Space-Air-Ground-Sea Integrated Networks: Modeling and Coverage Analysis. IEEE Transactions on Wireless Communications, 2023, 22, 6298-6313.	6.1	4
491	Dynamic Parameter Allocation With Reinforcement Learning for LoRaWAN. IEEE Internet of Things Journal, 2023, 10, 10250-10265.	5.5	5
492	Hierarchical Cross-Domain Satellite Resource Management: An Intelligent Collaboration Perspective. IEEE Transactions on Communications, 2023, 71, 2201-2215.	4.9	2
493	Self-Evolving Integrated Vertical Heterogeneous Networks. IEEE Open Journal of the Communications Society, 2023, 4, 552-580.	4.4	2
494	Spectrum Sharing Between High Altitude Platform Network and Terrestrial Network: Modeling and Performance Analysis. IEEE Transactions on Communications, 2023, 71, 3736-3751.	4.9	1
495	DQN-ALrM Based Intelligent Handover Method for Satellite-Ground Integrated Network. IEEE Transactions on Cognitive Communications and Networking, 2023, , 1-1.	4.9	1
496	Aerial Bridge: A Secure Tunnel Against Eavesdropping in Terrestrial-Satellite Networks. IEEE Transactions on Wireless Communications, 2023, , 1-1.	6.1	0
497	Al-Oriented Two-Phase Multifactor Authentication in SAGINs: Prospects and Challenges. IEEE Consumer Electronics Magazine, 2024, 13, 79-90.	2.3	0
498	Secrecy-Rate Optimization of Double RIS-Aided Space–Ground Networks. IEEE Internet of Things Journal, 2023, 10, 13221-13234.	5.5	2
499	Joint terminal-AP association and power allocation for NOMA-enabled space–air–ground integrated networks. Physical Communication, 2023, 58, 102020.	1.2	0

CITA	TION	DEDODT
CITA	I I U N	REPORT

#	Article	IF	CITATIONS
500	Distributed Deep Reinforcement Learning Assisted Resource Allocation Algorithm for Space-Air-Ground Integrated Networks. IEEE Transactions on Network and Service Management, 2023, 20, 3348-3358.	3.2	5
501	UAV-Aided Secure Short-Packet Data Collection and Transmission. IEEE Transactions on Communications, 2023, 71, 2475-2486.	4.9	5
502	Space-Air-Ground Integrated Network for Disaster Management: Systematic Literature Review. Applied Computational Intelligence and Soft Computing, 2023, 2023, 1-20.	1.6	0
503	Aerospace Integrated Networks Innovation for Empowering 6G: A Survey and Future Challenges. IEEE Communications Surveys and Tutorials, 2023, 25, 975-1019.	24.8	40
504	Task-Similarity-Based VNF Aggregation for Air–Ground Integrated Networks. Sensors, 2023, 23, 2259.	2.1	0
505	Dynamic Beam Hopping of Double LEO Multi-beam Satellite based on Determinant Point Process. , 2022, ,		1
506	Coverage enhancement for 6G satellite-terrestrial integrated networks: performance metrics, constellation configuration and resource allocation. Science China Information Sciences, 2023, 66, .	2.7	4
507	UltraStar: A Lightweight Simulator of Ultra-Dense LEO Satellite Constellation Networking for 6G. IEEE/CAA Journal of Automatica Sinica, 2023, 10, 632-645.	8.5	3
508	User grouping and power allocation in NOMA-based internet of things. Wireless Networks, 0, , .	2.0	0
509	Understanding Security in Smart City Domains From the ANT-Centric Perspective. IEEE Internet of Things Journal, 2023, 10, 11199-11223.	5.5	4
510	Non-Euclidean Graph-Convolution Virtual Network Embedding for Space–Air–Ground Integrated Networks. Drones, 2023, 7, 165.	2.7	3
511	Satellite. , 2022, , .		2
512	Secure and Efficient UAV Tracking in Space-Air-Ground Integrated Network. IEEE Transactions on Vehicular Technology, 2023, 72, 10682-10695.	3.9	0
513	A Remote Multi-UAV Control System Based on Smart Device. Lecture Notes in Electrical Engineering, 2023, , 135-142.	0.3	0
514	Network Element Placement for Spaceâ€Airâ€Ground Integrated Network: A Tutorial. Chinese Journal of Electronics, 2022, 31, 1013-1024.	0.7	1
515	A task recognition algorithm based on CNN-LSTM for The Space-Terrestrial Integrated Network. , 2022, , .		0
516	An Overview of Emergency Communication Networks. Remote Sensing, 2023, 15, 1595.	1.8	10
517	Antenna Selection for Reconfigurable Intelligent Surfaces: A Transceiver-Agnostic Passive Beamforming Configuration. IEEE Transactions on Wireless Communications, 2023, 22, 7756-7774.	6.1	1

	Citation Rei	PORT	
Article		IF	CITATIONS
A Survey on Energy Optimization Techniques in UAV-Based Cellular Networks: From Conventional t Machine Learning Approaches. Drones, 2023, 7, 214.	0	2.7	15
Joint Trajectory Plan and Resource Allocation for UAV-Enabled C-NOMA in Air-Ground Integrated 6Â Heterogeneous Network. IEEE Transactions on Network Science and Engineering, 2023, , 1-13.	G	4.1	5
A Channel Compensation Technique Based on Frequency-Hopping Binary Offset Carrier Modulated Signal. Remote Sensing, 2023, 15, 1849.		1.8	0
A Reinforcement Learning Based Resource Access Strategy forÂSatellite-Terrestrial Integrated Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 97-107.		0.2	0
Low-Latency Design for Satellite Assisted Wireless VR Networks. IEEE Communications Letters, 202 27, 1555-1559.	.3,	2.5	1
SSGAR: A Genetic-based Routing Solution for Aeronautical Networks aided by Software Defined Satellite Network. , 2023, , .			0
Experimental study of all-optical FSO fiber FSO communication system based on optical CDMA. , 20)23,,.		0
Airborne Network Security. , 2023, , 289-370.			0
Resource Allocation with Interference Avoidance in Beam-Hopping Based LEO Satellite Systems. , 24	023, ,		0
SFC embedding in Space-Air-Ground Integrated Network Based on DRL. , 2023, , .			0
Non-Orthogonal Broadcast and Unicast Joint Transmission for multi-satellite joint communication. , 2023, , .			0
SFC Deployment in Space-Air-Ground Integrated Networks Based on Matching Game. , 2023, , .			0
Investigation of Factors Affecting Data Transfer in Space-Air-Ground Integrated Network. Lecture Notes in Networks and Systems, 2023, , 45-59.		0.5	0
Resource Allocation and Orchestration of Slicing Services in Softwarized Space-Aerial-Ground Integrated Networks. , 2023, , .			0
Cyclic Delay-Doppler Shift: A Simple Transmit Diversity Technique for Delay-Doppler Waveforms in Doubly Selective Channels. , 2023, , .			1
On the Performance Analysis of Cooperative Active Round-trip Ranging and Passive Hyperbolic Localization for UAV Surveillance. , 2023, , .			0
Secure Communication Using WFRFT-DSSS Based on Chaotic Cyclic Shift. , 2023, , .			0

Blockchain-Empowered Space-Air-Ground Integrated Networks for Remote Internet of Things. , 2023, , .

#

#	Article	IF	CITATIONS
582	Performance Analysis of Space-Air-Ground Integrated Network (SAGIN): UAV Altitude and Position Angle. , 2023, , .		1
583	Research on Switching Strategy with Reinforcement Learning and Game Theory in Satellite-Terrestrial Integrated Networks. , 2023, , .		0
591	Learning to Hybrid Offload in Space-Air-Ground Integrated Mobile Edge Computing for IoT Networks. , 2023, , .		0
592	Study of Threats and Security Aspects of Unmanned Ariel Vehicles. , 2023, , .		Ο
594	Cooperative Multi-Type Multi-Agent Deep Reinforcement Learning for Resource Management in Space-Air-Ground Integrated Networks. , 2023, , .		0
595	Space-Earth Integration Network Slice Mapping Based on Multi-Level Attribute Representation Model. , 2023, , .		О
602	UAV-Assisted Computation Offloading in Vehicular Networks. , 2023, , .		0
604	Unequal Timeliness Protection Random Access Scheme for Satellite Internet of Things. , 2023, , .		Ο
605	Privacy-Assisted Computation Offloading Schemes for Satellite-Ground Digital Twin Networks. , 2023, , .		0
606	An Age-Critical LEC-CFDP Scheme for Dual-Hop Space-Air-Ground Integrated Networks. , 2023, , .		Ο
607	Beam Hopping Pattern Design Using Viterbi Algorithm for Satellite Communication Systems. , 2023, , .		0
609	On A Deep Reinforcement Learning-Based Content Caching Strategy in 6G Space-Air-Ground Integrated Networks. , 2023, , .		Ο
610	Performance Analysis of Satellite-UAV Relaying based Multi-User Systems with Outdated CSI. , 2023, , .		0
615	Air-to-Ground Channel Modeling and Generalized Algorithms. SpringerBriefs in Computer Science, 2024, , 11-21.	0.2	О
617	Blockchain-Enabled SAGIN Communication for Disaster Prediction and Management. , 2023, , .		0
620	Network Security Evaluation for Space-Ground Integrated Networks Based on Network Simulation. , 2023, , .		0
622	A Study on the Scalability and Feasibility of the Space-air Integrated Network. , 2023, , .		0
623	Energy Efficient Routing for Fso-Rf Space-Air-Ground Integrated Network: A Deep Reinforcement Learning Approach. , 2023, , .		0

#	Article	IF	CITATIONS
624	A Network Selection Scheme to Meet Heterogeneous QoS for Massive MTC in SAGIN. , 2023, , .		0
625	Secrecy Energy Efficiency Maximization in Space-Air-Ground Internet of Things Networks. , 2023, , .		0
626	Joint Sensing, Compression and Communication for Satellite-Terrestrial Integrated Networks. , 2023, , .		0
627	Boosting Bandwidth Convergence: Optimizing Resource Allocation in Satellite-Terrestrial Integrated Networks. , 2023, , .		0
633	Connections Enabling Command and Control. Advanced Sciences and Technologies for Security Applications, 2024, , 385-396.	0.4	0