

When Machine Learning Meets Privacy in 6G: A Survey

IEEE Communications Surveys and Tutorials

22, 2694-2724

DOI: [10.1109/comst.2020.3011561](https://doi.org/10.1109/comst.2020.3011561)

Citation Report

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Cybertwin-Driven Resource Provisioning for IoE Applications at 6G-Enabled Edge Networks. IEEE Transactions on Industrial Informatics, 2022, 18, 4850-4858. | 7.2 | 16 |
| 2 | Successive Point-of-Interest Recommendation With Personalized Local Differential Privacy. IEEE Transactions on Vehicular Technology, 2021, 70, 10477-10488. | 3.9 | 11 |
| 3 | Exploiting Deep Learning for Secure Transmission in an Underlay Cognitive Radio Network. IEEE Transactions on Vehicular Technology, 2021, 70, 726-741. | 3.9 | 15 |
| 4 | Security and Privacy for 6G: A Survey on Prospective Technologies and Challenges. IEEE Communications Surveys and Tutorials, 2021, 23, 2384-2428. | 24.8 | 140 |
| 5 | Intelligent Reflecting Surface Empowered Physical-Layer Security: Signal Cancellation or Jamming?. IEEE Internet of Things Journal, 2022, 9, 1265-1275. | 5.5 | 52 |
| 6 | The Roadmap to 6G Security and Privacy. IEEE Open Journal of the Communications Society, 2021, 2, 1094-1122. | 4.4 | 141 |
| 7 | Existing Privacy Protection Solutions. Data Analytics, 2021, , 5-13. | 0.8 | 6 |
| 8 | Digital-Twin-Assisted Task Offloading Based on Edge Collaboration in the Digital Twin Edge Network. IEEE Internet of Things Journal, 2022, 9, 1427-1444. | 5.5 | 66 |
| 9 | Intelligent Reflecting Surface Enabled Secure Cooperative Transmission for Satellite-Terrestrial Integrated Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 2007-2011. | 3.9 | 69 |
| 10 | Radar Target Detection via GAMP: A Sparse Recovery Strategy Off the Grid. IEEE Transactions on Vehicular Technology, 2021, 70, 4153-4165. | 3.9 | 2 |
| 11 | An Adversarial Attack Based on Incremental Learning Techniques for Unmanned in 6G Scenes. IEEE Transactions on Vehicular Technology, 2021, 70, 5254-5264. | 3.9 | 4 |
| 12 | 6G Security Challenges and Potential Solutions. , 2021, , . | | 48 |
| 13 | AI and 6G Security: Opportunities and Challenges. , 2021, , . | | 78 |
| 14 | DRL-Based Intelligent Resource Allocation for Diverse QoS in 5G and toward 6G Vehicular Networks: A Comprehensive Survey. Wireless Communications and Mobile Computing, 2021, 2021, 1-21. | 0.8 | 14 |
| 15 | Vehicular intelligence in 6G: Networking, communications, and computing. Vehicular Communications, 2022, 33, 100399. | 2.7 | 36 |
| 16 | From 5G to 6G Technology: Meets Energy, Internet-of-Things and Machine Learning: A Survey. Applied Sciences (Switzerland), 2021, 11, 8117. | 1.3 | 44 |
| 17 | Multi-Objective Optimization for UAV-Assisted Wireless Powered IoT Networks Based on Extended DDPG Algorithm. IEEE Transactions on Communications, 2021, 69, 6361-6374. | 4.9 | 59 |
| 18 | An Optimized Algorithm for Resource Allocation for D2D in Heterogeneous Networks. Computers, Materials and Continua, 2022, 70, 2923-2936. | 1.5 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Energy-Efficient Fog Computing for 6G-Enabled Massive IoT: Recent Trends and Future Opportunities. IEEE Internet of Things Journal, 2022, 9, 14572-14594. | 5.5 | 86 |
| 20 | An Efficient Scheme for Interference Mitigation in 6G-IoT Wireless Networks. Computers, Materials and Continua, 2021, 69, 3889-3902. | 1.5 | 0 |
| 21 | Deep Learning-Based Privacy Preservation and Data Analytics for IoT Enabled Healthcare. IEEE Transactions on Industrial Informatics, 2022, 18, 4798-4807. | 7.2 | 26 |
| 22 | AF Relaying Secrecy Performance Prediction for 6G Mobile Communication Networks in Industry 5.0. IEEE Transactions on Industrial Informatics, 2022, 18, 5485-5493. | 7.2 | 13 |
| 23 | The Framework of 6G Self-Evolving Networks and the Decision-Making Scheme for Massive IoT. Applied Sciences (Switzerland), 2021, 11, 9353. | 1.3 | 2 |
| 24 | 6G and AI: The Emergence of Future Forefront Technology. , 2020, , . | | 8 |
| 25 | Hybrid Human-Artificial Intelligence Enabled Edge Caching Based on Interest Evolution. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 107-122. | 0.2 | 0 |
| 26 | NA-SMT: A Network-Assisted Service Message Transmission Protocol for Reliable IoV Communications. IEEE Access, 2021, 9, 149542-149551. | 2.6 | 2 |
| 27 | Towards 6G Communications: Architecture, Challenges, and Future Directions. , 2021, , . | | 6 |
| 28 | Unmanned Driving Infringement Judgment Based on Wireless Sensor Network Data Mining. Journal of Sensors, 2021, 2021, 1-11. | 0.6 | 0 |
| 29 | Affective Rights: A Foundation for Ethical Standards. , 2020, , . | | 2 |
| 30 | Optimal False Data Injection Attacks on MTC. IEEE Transactions on Vehicular Technology, 2022, 71, 3372-3376. | 3.9 | 1 |
| 31 | Systematic Review of Virtual Reality Solutions Employing Artificial Intelligence Methods. , 2021, , . | | 3 |
| 32 | Hybrid Quantum Deep Learning with Differential Privacy for Botnet DGA Detection. , 2021, , . | | 2 |
| 33 | Artificial intelligence technology in the Internet of things. , 2022, , 245-297. | | 1 |
| 34 | 6G and the Internet of Things: Topic Analysis. Journal of Industrial Integration and Management, 2022, 07, 535-553. | 3.1 | 1 |
| 35 | Security concerns on machine learning solutions for 6G networks in mmWave beam prediction. Physical Communication, 2022, 52, 101626. | 1.2 | 28 |
| 36 | A survey: Distributed Machine Learning for 5G and beyond. Computer Networks, 2022, 207, 108820. | 3.2 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Aerial Computing: A New Computing Paradigm, Applications, and Challenges. IEEE Internet of Things Journal, 2022, 9, 8339-8363. | 5.5 | 38 |
| 38 | Accurate and Efficient Performance Prediction for Mobile IoV Networks Using GWO-GR Neural Network. IEEE Internet of Things Journal, 2022, 9, 16463-16471. | 5.5 | 4 |
| 40 | Loss-Privacy Tradeoff in Federated Edge Learning. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 546-558. | 7.3 | 7 |
| 41 | Multi-dimensional Security Range Query for Industrial IoT. Computers, Materials and Continua, 2022, 72, 157-179. | 1.5 | 0 |
| 42 | Multi-Access Edge Offloading Based on Physical Layer Security in C-V2X System. IEEE Transactions on Vehicular Technology, 2022, 71, 6912-6923. | 3.9 | 6 |
| 43 | Towards a data collection methodology for Responsible Artificial Intelligence in health: A prospective and qualitative study in pregnancy. Information Fusion, 2022, 83-84, 53-78. | 11.7 | 13 |
| 44 | Introduction Conceptualization of Security, Forensics, and Privacy of Internet of Things: An Artificial Intelligence Perspective. Studies in Computational Intelligence, 2022, , 1-35. | 0.7 | 0 |
| 45 | Artificial Intelligence and Machine Learning-Based Security Enforcement Techniques for 6G Communication. Advances in Wireless Technologies and Telecommunication Book Series, 2022, , 347-364. | 0.3 | 0 |
| 46 | Future Directions of 6G Architecture With Integration of Sensing, Communication, and Security. Advances in Wireless Technologies and Telecommunication Book Series, 2022, , 158-176. | 0.3 | 0 |
| 48 | Enhanced Interference Management for 6G in-X Subnetworks. IEEE Access, 2022, 10, 45784-45798. | 2.6 | 7 |
| 50 | Fair and Energy-Efficient Coverage Optimization for UAV Placement Problem in the Cellular Network. IEEE Transactions on Communications, 2022, 70, 4222-4235. | 4.9 | 14 |
| 51 | Evolution of optical wireless communication for B5G/6G. Progress in Quantum Electronics, 2022, 83, 100398. | 3.5 | 33 |
| 52 | Toward Privacy Preservation Using Clustering Based Anonymization: Recent Advances and Future Research Outlook. IEEE Access, 2022, 10, 53066-53097. | 2.6 | 6 |
| 53 | Internet of Intelligence: A Survey on the Enabling Technologies, Applications, and Challenges. IEEE Communications Surveys and Tutorials, 2022, 24, 1394-1434. | 24.8 | 20 |
| 54 | A Survey on the Convergence of Edge Computing and AI for UAVs: Opportunities and Challenges. IEEE Internet of Things Journal, 2022, 9, 15435-15459. | 5.5 | 92 |
| 55 | Secure IoT Healthcare Architecture with Deep Learning-Based Access Control System. Journal of Nanomaterials, 2022, 2022, 1-8. | 1.5 | 13 |
| 56 | The Roadmap of Communication and Networking in 6G for the Metaverse. IEEE Wireless Communications, 2023, 30, 72-81. | 6.6 | 72 |
| 57 | A brief survey on 6G communications. Wireless Networks, 2022, 28, 2901-2911. | 2.0 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 58 | Beamforming and Artificial Noise for Cross-Layer Location Privacy of E-Health Cellular Devices. , 2022, , , | | 1 |
| 59 | New Barriers on 6G Networking: An Exploratory Study on the Security, Privacy and Opportunities for Aerial Networks. , 2022, , , | | 5 |
| 60 | Improving EEG-Based Driver Distraction Classification Using Brain Connectivity Estimators. Sensors, 2022, 22, 6230. | 2.1 | 12 |
| 61 | Blockchain and AI technology convergence: Applications in transportation systems. Vehicular Communications, 2022, 38, 100521. | 2.7 | 18 |
| 62 | Machine and Deep Learning for Resource Allocation in Multi-Access Edge Computing: A Survey. IEEE Communications Surveys and Tutorials, 2022, 24, 2449-2494. | 24.8 | 19 |
| 63 | Zero Touch Management: A Survey of Network Automation Solutions for 5G and 6G Networks. IEEE Communications Surveys and Tutorials, 2022, 24, 2535-2578. | 24.8 | 17 |
| 64 | A Survey on Trust Models in Heterogeneous Networks. IEEE Communications Surveys and Tutorials, 2022, 24, 2127-2162. | 24.8 | 14 |
| 65 | An Analysis on Wireless Communication in 6G THz Network and Their Challenges. , 2022, , 167-181. | | 2 |
| 66 | 6G Cloud-Native System: Vision, Challenges, Architecture Framework and Enabling Technologies. IEEE Access, 2022, 10, 96602-96625. | 2.6 | 6 |
| 67 | Handover Management for Drones in Future Mobile Networksâ€™A Survey. Sensors, 2022, 22, 6424. | 2.1 | 5 |
| 68 | Virtual Reality Solutions Employing Artificial Intelligence Methods: A Systematic Literature Review. ACM Computing Surveys, 2023, 55, 1-29. | 16.1 | 4 |
| 69 | Discussion on a new paradigm of endogenous security towards 6G networks. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 1421-1450. | 1.5 | 6 |
| 70 | A survey on privacy for B5G/6G: New privacy challenges, and research directions. Journal of Industrial Information Integration, 2022, 30, 100405. | 4.3 | 7 |
| 71 | A survey on the use of blockchain for future 6G: Technical aspects, use cases, challenges and research directions. Journal of Industrial Information Integration, 2022, 30, 100404. | 4.3 | 17 |
| 72 | Reinforcement Learning-Based Physical Cross-Layer Security and Privacy in 6G. IEEE Communications Surveys and Tutorials, 2023, 25, 425-466. | 24.8 | 21 |
| 73 | Exploring science-technology linkages: A deep learning-empowered solution. Information Processing and Management, 2023, 60, 103255. | 5.4 | 7 |
| 76 | Two Stage Beamforming in Massive MIMO: A Combinatorial Multi-Armed Bandit Based Approach. IEEE Transactions on Vehicular Technology, 2023, 72, 6794-6799. | 3.9 | 2 |
| 77 | Designing a 6G Testbed for Location: Use Cases, Challenges, Enablers and Requirements. IEEE Access, 2023, 11, 10053-10091. | 2.6 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 79 | Fast Detection and Classification of Dangerous Urban Sounds Using Deep Learning. Computers, Materials and Continua, 2023, 75, 2191-2208. | 1.5 | 0 |
| 80 | Blockchain-based group authentication scheme for 6G communication network. Physical Communication, 2023, 57, 102005. | 1.2 | 11 |
| 81 | An Intelligent and Private 6G Air Interface Using Physical Layer Security. , 2022, , . | | 1 |
| 82 | Security and Privacy on 6G Network Edge: A Survey. IEEE Communications Surveys and Tutorials, 2023, 25, 1095-1127. | 24.8 | 20 |
| 83 | A Survey on Energy Optimization Techniques in UAV-Based Cellular Networks: From Conventional to Machine Learning Approaches. Drones, 2023, 7, 214. | 2.7 | 15 |
| 84 | Leading Edge or Bleeding Edge: Designing a Framework for the Adoption of AI Technology in an Educational Organization. Sustainability, 2023, 15, 6540. | 1.6 | 3 |
| 85 | Innovative Trends in the 6G Era: A Comprehensive Survey of Architecture, Applications, Technologies, and Challenges. IEEE Access, 2023, 11, 39824-39844. | 2.6 | 32 |
| 89 | 6G Network Traffic Intrusion Detection Using Multiresolution Auto-encoder and Feature Matching Discriminator. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 208-218. | 0.2 | 0 |
| 91 | Design of 6G Space-Ground Integrated Network Architecture Based on Ground Core Network. , 2023, , . | | 0 |
| 92 | Analysis of 6G Space-Ground Integrated Network Architecture. , 2023, , . | | 0 |
| 93 | æ³•âœ“ç1/2'ç»œç©°é—'â®%â...''ä,çš,,âœ”ç””: æš€æœ-äžçž°çš”ç»1/4è¿°. Frontiers of Information Technology and Ele | | 0 |
| 95 | 6G-IoT Framework for Sustainable Smart City: Vision and Challenges. , 2023, , 97-117. | | 1 |
| 99 | Artificial Intelligence Advancement for 6G Communication: A Visionary Approach. , 2023, , 355-394. | | 0 |
| 100 | Privacy of the Metaverse: Current Issues, AI Attacks, and Possible Solutions. , 2023, , . | | 0 |
| 102 | 6G Physical Layer Security. Artificial Intelligence, 0, , . | 2.0 | 0 |
| 104 | Network Security and Trustworthiness. Signals and Communication Technology, 2024, , 747-762. | 0.4 | 0 |
| 107 | Federated Learning Integration in O-RAN: A Concise Review. , 2023, , . | | 0 |
| 108 | Machine Learning Structure for Box-plus Operation with Soft Information Processing. , 2023, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
|---|---------|----|-----------|