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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing

Special Issue on
"Convergence of Network Security Protocols in Communication between Earth Observation Protocols"

Frequent occurrences of natural disasters and extreme weather conditions demand continuous observation of the earth to better understand the earth's biological, geological, and meteorological cycles. The use of remotely sensed data and land observation findings could augment and supplement conventional field statistics in a timely manner, increasing visibility, precision, and relevance. Additionally, they provide domain-specific abstractions, information standards support, and integrated structural resource interfaces, all of which contribute to the development of sophisticated on-top solutions. Making strategic decisions might be made easier through effective communication of acquired information, providing visual proof in a simple format. Developing Earth Observation remedies using a distant system could enable us to provide inspections in hazardous areas and access areas that were previously unattainable while minimizing the ecological impact of certain structured data collection processes. Thus, this special issue aims to discuss and challenge the recent trends in paradigms related to satellite observation, secure data transfer, IoT systems, drone monitoring, intrusion detection, network anomalies, and so on. We invite researchers from various fields to present their original papers, reviews, and perspectives on the convergence of network security protocols in communication between earth observation protocols.

The broad topics include (but are not limited to):

- Innovations in Access Control and Automated Security Analysis of Earth Observation Protocols
- Advances in the Blockchain and Cloud Security empowered by Big Data Analytics for Intrusion Detection in Satellite Data Transfer
- Trends in IP Protection and Malware Key Management in Remote Sensing Drones
- Advances in Complex Security Systems for detection of Anonymity in Privileged Access Systems of Earth Base Stations
- Research in Critical Infrastructures for Improved Data Protection and Management of Earth Imagery Systems
- Frontiers of Artificial Neural Networks in improving the Security of Grid Systems for Secure Earth Data
- Future of Distributed Cooperative Perception in Ad hoc Teamwork for Secure Automation of Unmanned Observatory Vehicles
- Innovations in the Convergence of Advanced Security Protocols for Planning and Management of Remote Sensing Data
- Impact of Human Factors in Ubiquitous Security and Usability of Earth Observation Data
- Innovations in Data-Driven Approaches for Privacy-Enhancing Protocols for One-To-One Remote Sensing Communications
- Application of Cryptography in enhancing the Efficiency of Secure Communication Protocols for Earth Observation Systems.

Schedule
Feb. 1, 2023, Submission system opening
Jul. 31, 2023, Submission system closing

Format
All submissions will be peer reviewed according to the IEEE Geoscience and Remote Sensing Society guidelines. Submitted articles should not have been published or be under review elsewhere. Submit your manuscript on http://mc.manuscriptcentral.com/jstars, using the Manuscript Central interface and select the "**Convergence of Network Security Protocols in Communication between Earth Observation Protocol**" special issue manuscript type. Prospective authors should consult the site https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9082768 for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single spaced). Please visit http://www.ieee.org/publications_standards/publications/authors/author_templates.html to download a template for transactions. Please note that as of Jan. 1, 2020, IEEE J-STARS has become a fully open-access journal charging a flat publication fee $1,250 per paper.

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