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**IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing**  
**Special Issue on**  
**“Security and Privacy-preserving Solutions on Remote Sensing Data of Smart Cities”**

Remote sensing is the process of detecting and monitoring the physical characteristics of an area by measuring its reflected and emitted radiation at a distance (typically from satellite or aircraft), which helps sense things about the Earth in smart cities. Although it empowers us, when we consider how Artificial Intelligence and Machine Learning algorithms are applied to this data, it becomes pretty scary pretty fast unless there is some kind of universal understanding of how it can be used. It carries two pressing issues: Security and Privacy.

On the one hand, we need to safeguard the security and policy interests of the globe in connection with the distribution of satellite-acquired Earth remote sensing data; otherwise, attackers and unwanted third parties can perturb the data forging damage on the ecology and the earth. On the other hand, some of remotely sensed data are sensitive. Sensitive data refers to data that should not be disclosed unintentionally, like the Gravity Recovery and Climate Experiment (GRACE) of a significant location or locations of oil reservoirs in a strategic area. Keeping these data private in a way that adversaries cannot find them without proper permission carries the “privacy-preservation” issue.

Inspired and motivated by the facts that Security and Privacy issues raise concerns for remote sensing data, it is the right time to consider additional research and rules to ensure technologies do not infringe on privacy or compromise security. This Special Issue seeks to investigate this challenge by soliciting tutorials and research papers about it. Potential research directions are fostered for this Special Issue. Surveys and state-of-the-art tutorials are also considered.

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

- 1- Cyber Security issues on remote sensing data of smart cities
- 2- Privacy issues on remote sensing data of smart cities
- 3- Remote Sensing Data at the control level using Artificial Intelligence
- 4- Secure Machine Learning for Remote Sensing Data on Smart cities
- 5- Remote Sensing Data Protection for Smart Cities

#### **Schedule**

1 Jul 2022 Submission system opening  
28 Feb 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 “**Security and Privacy-preserving Solutions on Remote Sensing Data of Smart Cities**” 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](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.

#### **Guest Editors**

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