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Dimensionality Reduction for Hyperspectral Imagery Analysis

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Deadline for manuscript submissions:
closed (30 August 2019)

Message from the Guest Editors

Dimensionality reduction for hyperspectral remote sensing plays an important role in scientific applications. With the rapid advance of hyperspectral imaging technology, a vast and ever-growing amount of remote sensing data (i.e., high dimensionality) is readily available. The emergence of hyperspectral remote sensing has brought about a paradigm shift in many fields (especially in the geosciences) of data analytics, such as image processing and geoscience applications; for instance, the popular machine learning has evolved into high dimensional remote sensing data for feature extraction or selection, and provided tremendous power for dimensionality reduction and further applications. Therefore, the primary goal of this Special Issue of *Remote Sensing* is to provide the opportunity for researchers to discuss the state-of-the-art and trends of theories, methodologies, techniques, and applications for the dimensionality reduction of hyperspectral remote sensing and geoscience understanding.

Keywords

- Hyperspectral remote sensing
- Intrinsic dimension analysis
- Information assessment
- Feature extraction
- Feature (band) selection
- Feature optimization
- Machine learning

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Editor-in-Chief

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Message from the Editor-in-Chief

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Journal Rank: JCR - Q1 (*Geosciences, Multidisciplinary*) / CiteScore - Q1 (*General Earth and Planetary Sciences*)

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