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Joint Bilateral Filtering and Spectral Similarity-Based Sparse Representation: A Generic Framework for Effective Feature Extraction and Data Classification in Hyperspectral Imaging

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Highlights

- A generic framework for feature extraction and hyperspectral image classification
- Simultaneously address HSI feature extraction and classifier in a systemic manner
- Extract features via joint bilateral filtering (JBF) and sparse representation (SR)
- Apply JBF with the 1st principal component as the guidance image to preserve edges
- Spectral similarity-based joint SR classification (SS-JSRC) for better performance

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