

# **A Subblock Partition Of Multi-Layer Pattern Based Remote Sensing Image Classification Approach**

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**Key words:** Geoinformation/GI; Land management; Remote sensing; Remote Sensing Image Classification, Patten Subblock, Bag of Words

## **SUMMARY**

Since traditional partition approach may construct very different remote sensing image representation because of the changed locations of objects in same image, a subblock partition of multi-layer pattern method for remote sensing image representation is proposed. Firstly, the saliency windows straddled by superpixels are utilized to partition the image into multi-layer pattern subblocks. Then all the subblocks are combined to a tensor representation. Experimental results show that the proposed representation method is robust to the varied object locations and achieves better performance than other approaches. Conclusion is that the Pattern Based Multi-Layer Subblock Partition method can be used in remote sensing image classification.

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