
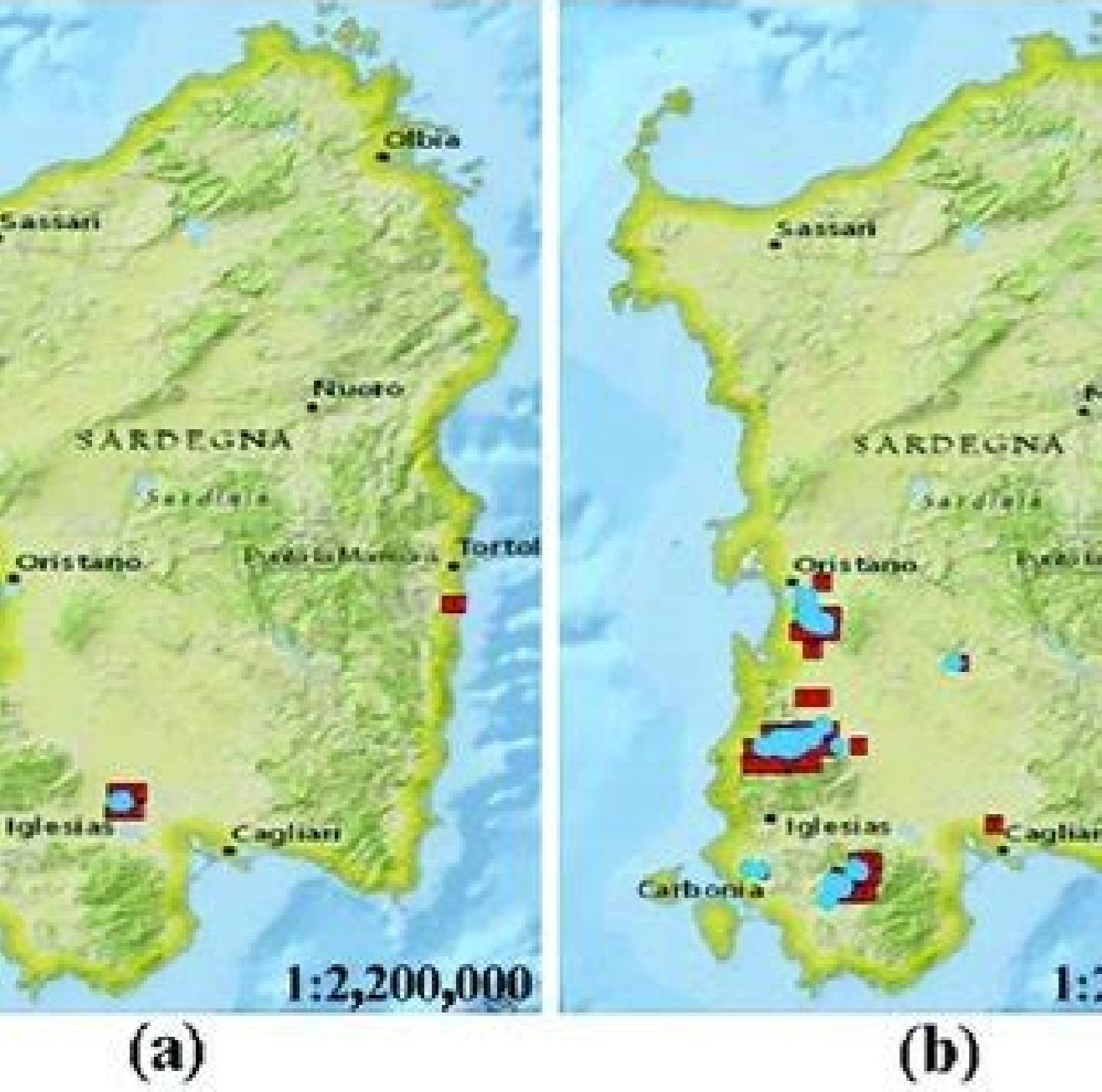
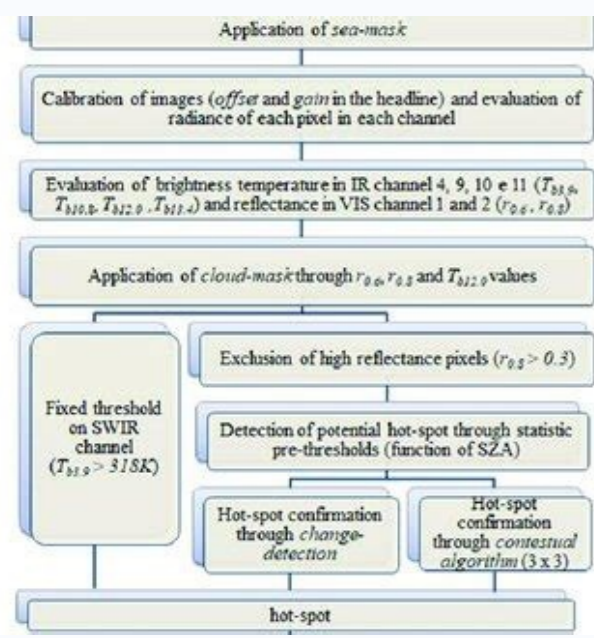


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Forest fire detection pdf full version s



Abstract: This paper presents a deep learning-based fire detection method using Sentinel-2 satellite imagery. The method is designed to detect fire hotspots in a timely and accurate manner, providing valuable information for fire management and prevention. The proposed method is based on a combination of a convolutional neural network (CNN) and a support vector machine (SVM). The CNN is used for feature extraction, while the SVM is used for classification. The method is evaluated using a dataset of fire hotspots from Sentinel-2 imagery. The results show that the proposed method achieves a high accuracy in fire detection, outperforming traditional methods. The method is also shown to be robust to variations in the input data. The proposed method is a promising approach for fire detection from satellite imagery.

Introduction: Fire is a major natural hazard that causes significant damage to property and the environment. Early detection of fire hotspots is crucial for minimizing the impact of fires. Satellite-based fire detection provides a wide-area and timely monitoring capability. However, traditional methods for fire detection from satellite imagery are often limited in accuracy and timeliness. Deep learning-based methods have shown promise in fire detection, but they often require large amounts of training data and are computationally expensive. This paper proposes a deep learning-based fire detection method that addresses these challenges. The proposed method is based on a combination of a convolutional neural network (CNN) and a support vector machine (SVM). The CNN is used for feature extraction, while the SVM is used for classification. The method is evaluated using a dataset of fire hotspots from Sentinel-2 imagery. The results show that the proposed method achieves a high accuracy in fire detection, outperforming traditional methods. The method is also shown to be robust to variations in the input data. The proposed method is a promising approach for fire detection from satellite imagery.

Methodology: The proposed method consists of several steps. First, the input satellite imagery is pre-processed to remove atmospheric effects and cloud cover. Next, the pre-processed imagery is fed into a CNN for feature extraction. The CNN is trained using a dataset of fire hotspots from Sentinel-2 imagery. The output of the CNN is a set of feature vectors. These feature vectors are then fed into an SVM for classification. The SVM is trained using the same dataset of fire hotspots. The output of the SVM is a binary classification result, indicating the presence or absence of a fire hotspot. The method is evaluated using a dataset of fire hotspots from Sentinel-2 imagery. The results show that the proposed method achieves a high accuracy in fire detection, outperforming traditional methods. The method is also shown to be robust to variations in the input data. The proposed method is a promising approach for fire detection from satellite imagery.

Results and Discussion: The proposed method is evaluated using a dataset of fire hotspots from Sentinel-2 imagery. The results show that the proposed method achieves a high accuracy in fire detection, outperforming traditional methods. The method is also shown to be robust to variations in the input data. The proposed method is a promising approach for fire detection from satellite imagery. The method is also evaluated using a dataset of fire hotspots from other satellite sensors, such as Landsat-8 and Sentinel-1. The results show that the proposed method is also effective for fire detection from other satellite sensors. The proposed method is a promising approach for fire detection from satellite imagery.

Conclusion: The proposed method is a promising approach for fire detection from satellite imagery. The method is based on a combination of a CNN and an SVM. The method is evaluated using a dataset of fire hotspots from Sentinel-2 imagery. The results show that the proposed method achieves a high accuracy in fire detection, outperforming traditional methods. The method is also shown to be robust to variations in the input data. The proposed method is a promising approach for fire detection from satellite imagery.



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