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Abstract

This paper presents a new fuzzy change detection and measurement approach to overcome the drawbacks of traditional thresholding methods in remote sensing. The proposed technique is taking the advantages of following concepts: 1- asymmetric thresholding in order to improve the reliability and accuracy of change detection in each spectral bands, 2- fuzzy measurement approach to consider ambiguity in thresholding of difference image, and represent the changes in fuzzy form and fusing the obtained change maps from various spectral bands, and 3- non-linear modeling with artificial neural networks for relative

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