



Whole-Local Method Implementation for Water Body Detection in Landsat Images

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Abstract: *This paper presents a step-by-step iterative transformation mechanism to extract water information, which uses spatial scale transformation mechanism of “whole-local” based on water index fitted from spectral library using spectral angle method first, and then fuses the hierarchical knowledge of water extraction and achieves the gradually approach of the water body’s optimal margin iteratively by combining the segmentation and classification at whole and local scales respectively.*