

應用遙測影像與類神經網路於水庫葉綠素-a濃度之監測

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摘要

The artificial neural networks (ANNs) were adopted to improve the monitoring capability of water quality in a reservoir using remote sensing images. Simultaneous measurement of chlorophyll-a concentration along the Feitsui Reservoir, the primary water supply of Taipei City, was conducted by ferryboat. Those ground measured values were used to calibrate empirical functions with multiple spectral parameters from Landsat 7 satellite images. The predictive capability of ANNs approach was evaluated and showed satisfied results.

關鍵字：Artificial neural networks, chlorophyll-a, Feitsui Reservoir