## A Web-based Spectrum Library for Remote Sensing Applications of Poyang Lake Wetland

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## **Abstract**

Although the development of spectral library is a hotspot at home and abroad since 90's in 20th centuries, there isn't a suit of accessible spectral data of Poyang Lake wetland and it can't meet the demands of theory research and application of remote sensing in typical wetland protection and development of Poyang Lake nowadays. Aiming at establishing a practical spectral library of Poyang Lake's wetland (including hydro-physic community, swamp and grassland etc.), wetland spectra and their environment parameters and application models are integrated based on web techniques. The research concentrates on the description of spectral data measurement method, store & organization, realization of querying and presentation and web-interface design. It offers the details of regional featured spectra and an application demonstration of remote sensing identification model for wetland type, which provides large convenience for research fellowship in quantitative remote sensing.

## **Keywords**

spectral library, poyang lake, remote sensing, classification, wethand type