Abstract

Establishing an Image-Based, Landscape Change Monitoring System
Track: Remote Sensing Imagery
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The objective of this study was to integrate a number of established image standardization and geographic information analysis techniques to process a temporally dense database of remote sensing imagery for monitoring purposes. With the increased availability and reduction in price of medium resolution imagery, coupled with improved computational ability and analytical techniques, it is possible to establish a landscape monitoring protocol that covers vast quantities of land in an efficient manner. This monitoring system can act as an early warning system to identify areas of change, which can then be evaluated on the surface by trained land managers.

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