

Feature Measurements of Forest Fire Damage Changes by Using Satellite Images

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Forest fire damage changes landscape cover. The measured fractal dimension and formfactor derived from the classified Landsat ETM+ images can be used to detect landscape changes in forest burnt areas, Cheongyang and Yesan in Korea. Results of this study indicate that both phonological changes and fire damages affect the increase in fractal dimension values due to complexities of patches (i.e. crown cover) and the increase in formfactor values due to their irregularities.

Key words: Forest Fire, Landscape changes, Fractal dimension, Formfactor