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### Study of a Method for Extracting LAI Time-Series Pattern Estimation of Crop Phenology

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#### Abstract

The estimation of crop phenology is necessary to grasp the water use of crops. To estimate the crop phenology, time-series patterns of Leaf Area Index (LAI) are considered effective. A method is proposed for extracting LAI time-series patterns by calculating the difference between vegetation coverage estimated in visible and near-infrared bands. The method proved to be more suitable for the

time-series patterns than conventional vegetation indices.

Keywords: [leaf area index](#), [crop phenology](#), [radiative transfer model](#), [matched-filter method](#)

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