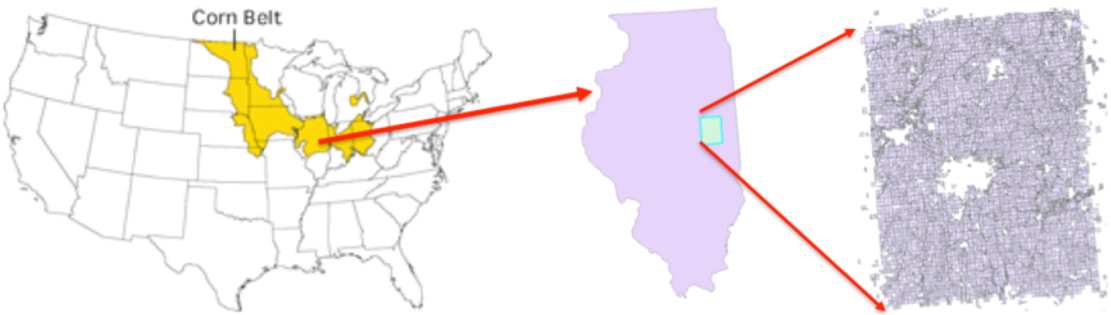
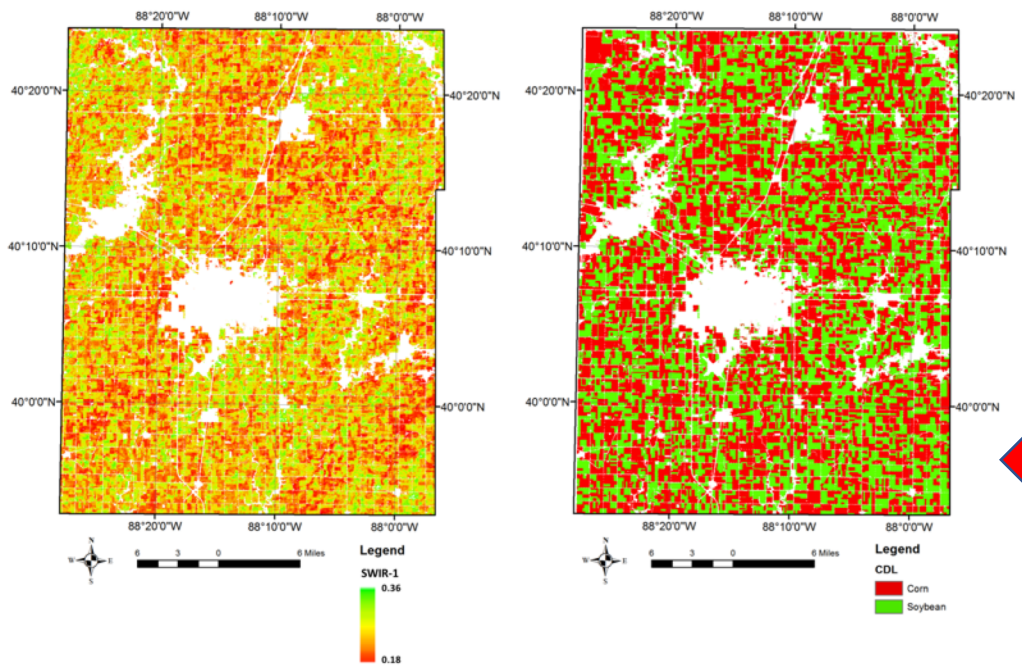
A high-performance and in-season classification system of field-level crop types using time-series Landsat data and a machine learning approach

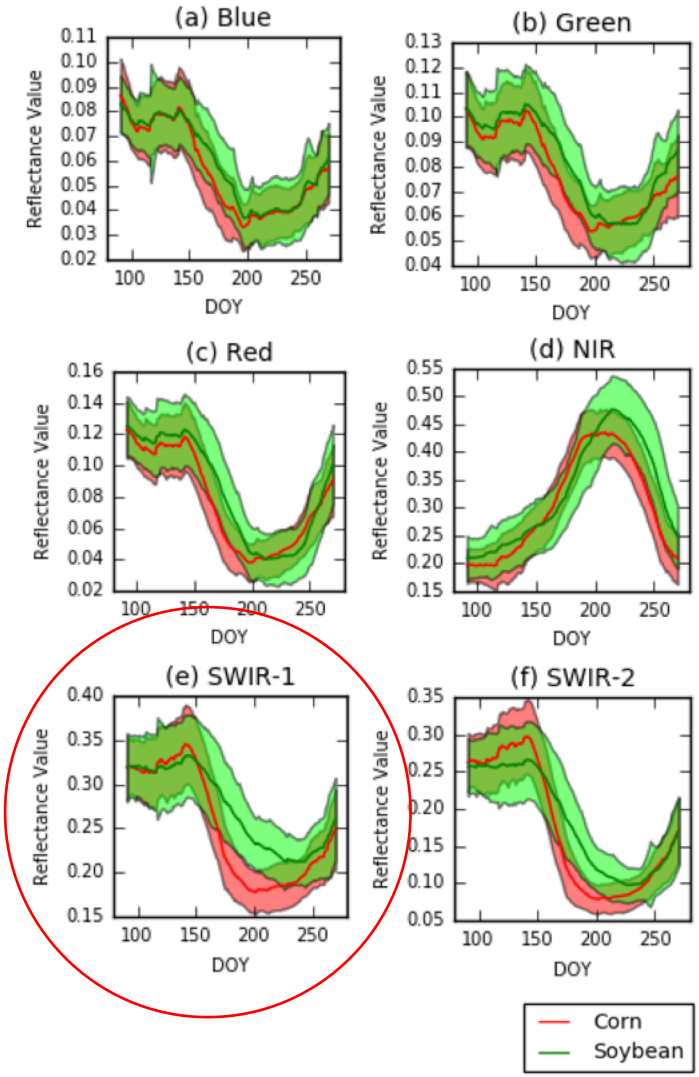
Yaping Cai & Kaiyu Guan et al., 2018. Remote Sensing of Environment (doi:10.1016/j.rse.2018.02.045)



Study area



Spatial distribution of SWIR-1 and crop types



Field-level time-series spectral curves

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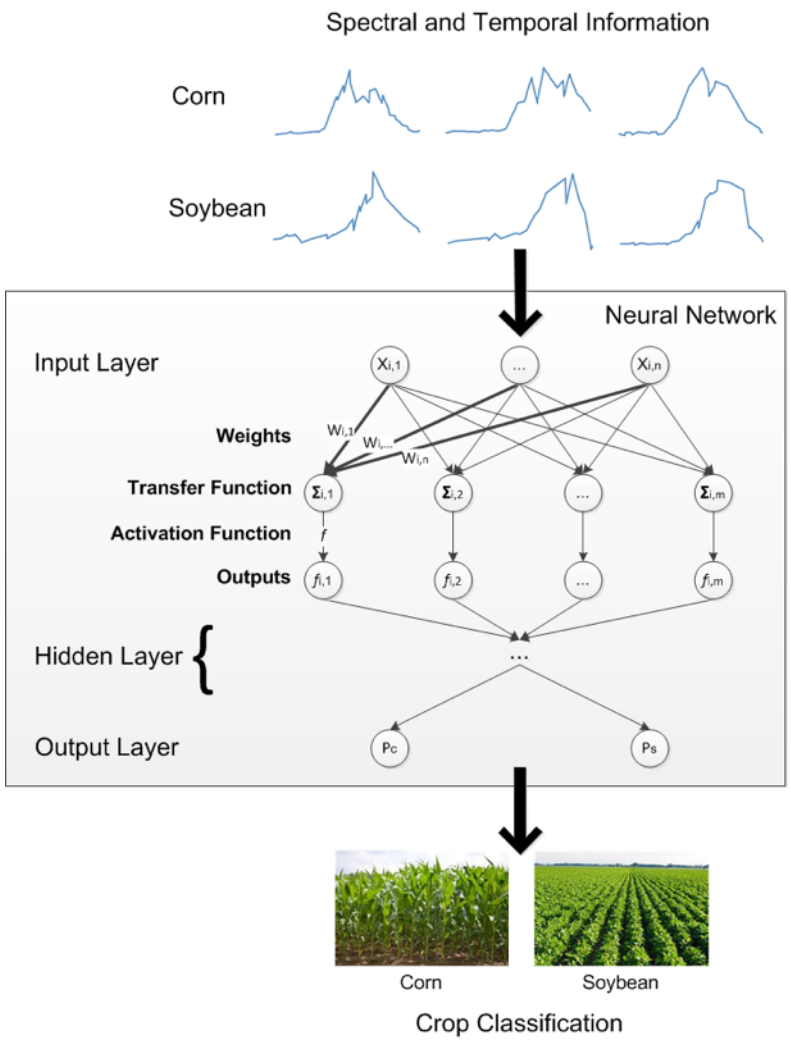
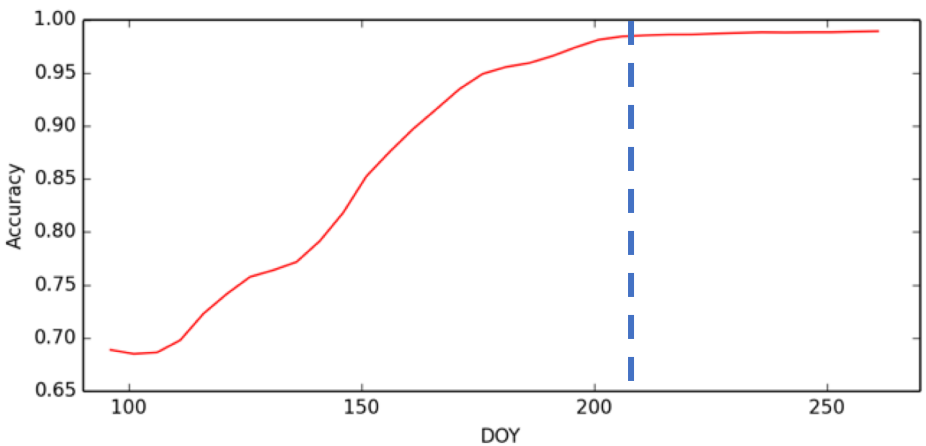


Framework of the classification model



Classification performance as a function of time

Current method has achieved high performance at the county level, and has the scalability to be applied at the state level.