Identification of coffee bean varieties using hyperspectral imaging: influence of preprocessing methods and pixel-wise spectra analysis

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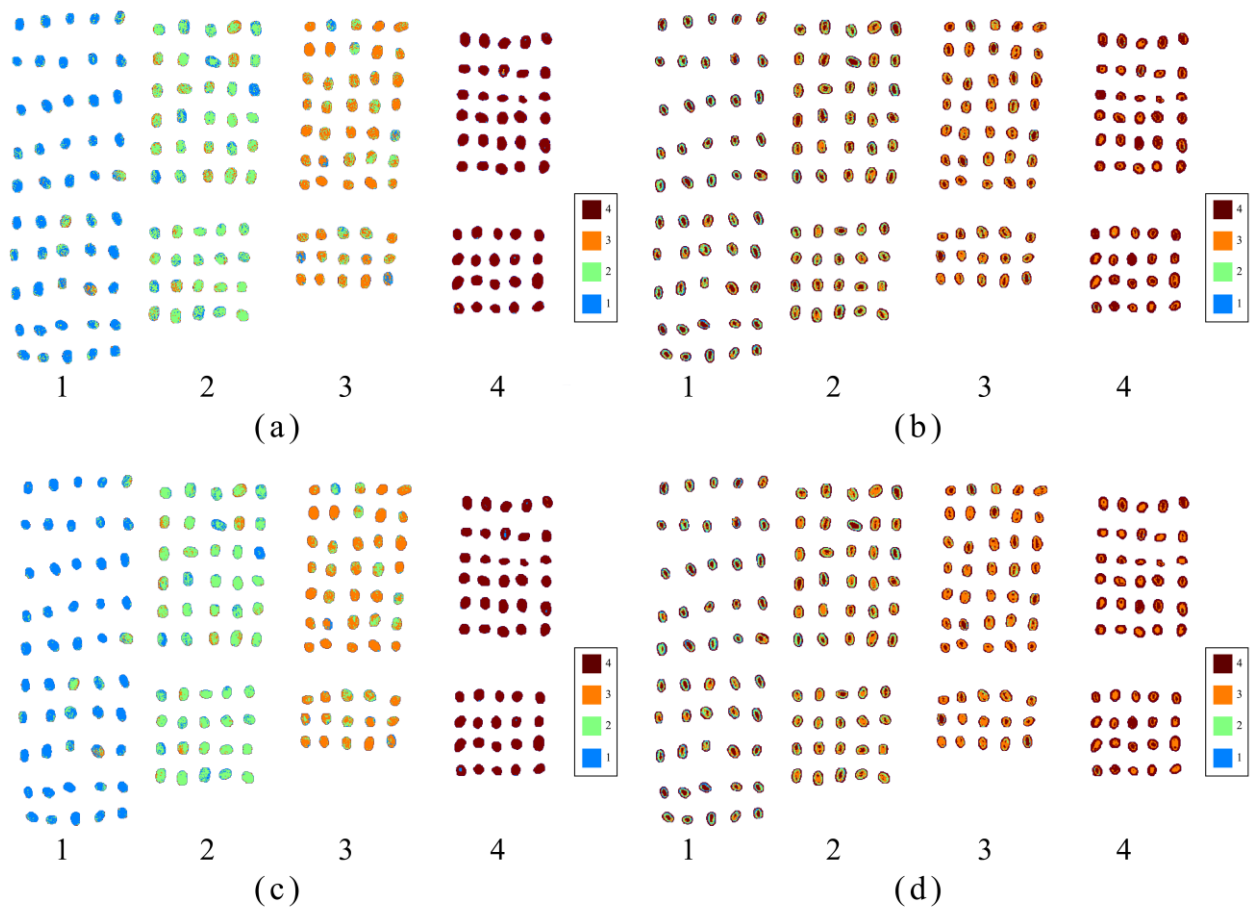
Fig. S1 Prediction maps of coffee beans: (a) prediction map of 4 varieties of coffee beans by applying SVM model built using optimal wavelengths selected from pixel-wise spectra (preprocessed by WT) to hyperspectral images; (b) prediction map of 4 varieties of coffee beans by applying SVM model built using optimal wavelengths selected from sample average spectra averaged by pixel-wise spectra (preprocessed by WT) to hyperspectral images; (c) prediction map of 4 varieties of coffee beans by applying SVM model built using optimal wavelengths selected from pixel-wise spectra (preprocessed by EMD) to hyperspectral images; (d) prediction map of 4 varieties of coffee beans by applying SVM model built using optimal wavelengths selected from sample average spectra averaged by pixel-wise spectra (preprocessed by EMD) to hyperspectral images.