

# Machine Learning Optimized LIBS Spectral Feature Extraction for Indoor Carbon Concentration Dynamics and Forecasting

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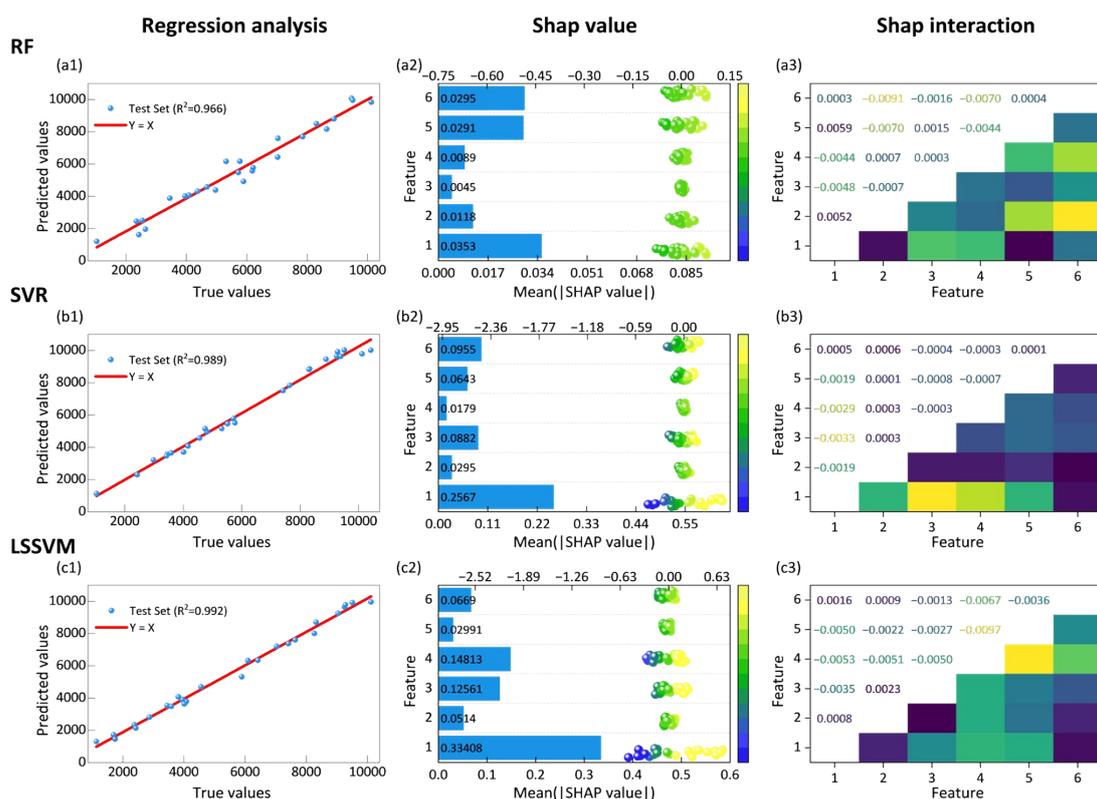


Fig. S1 Regression performance and SHAP-based feature importance of RF, SVR, and LSSVM models for wood combustion.

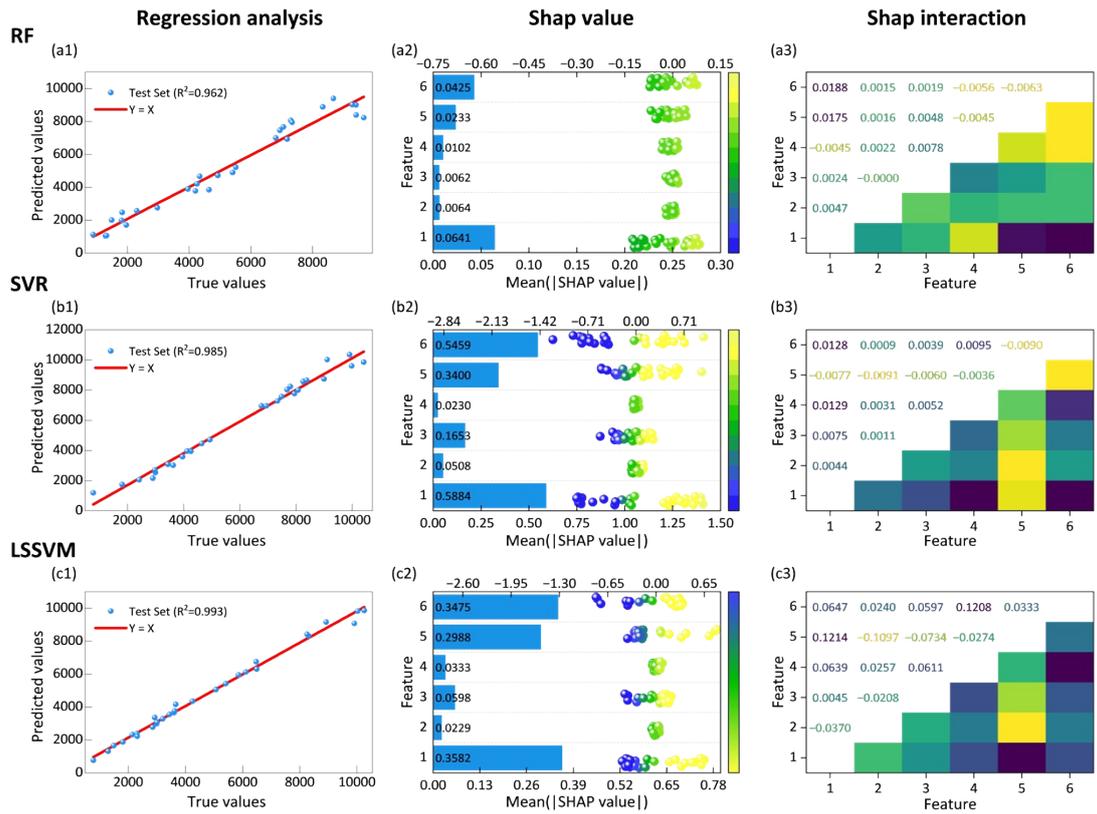


Fig. S2 Regression performance and SHAP-based feature importance of RF, SVR, and LSSVM models for carton combustion.

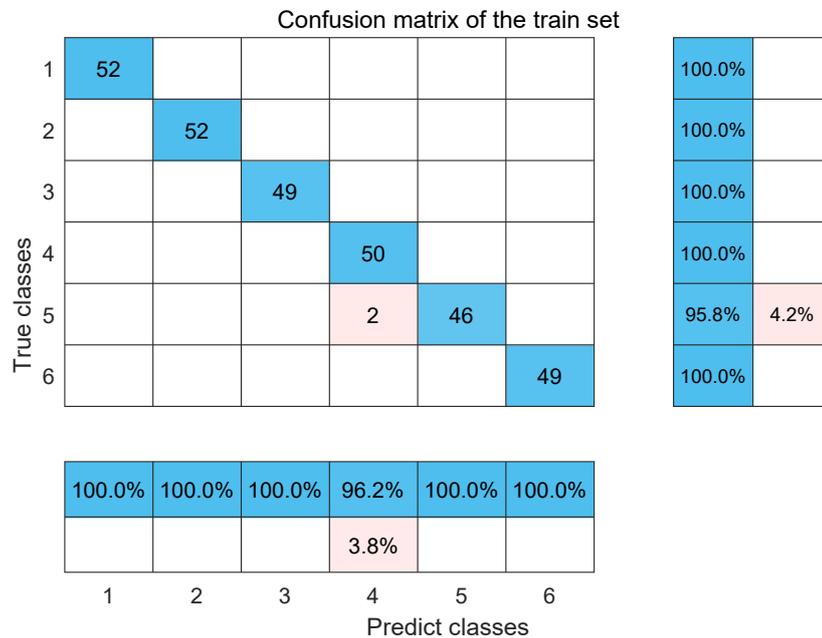


Fig. S3 Training set confusion matrix.

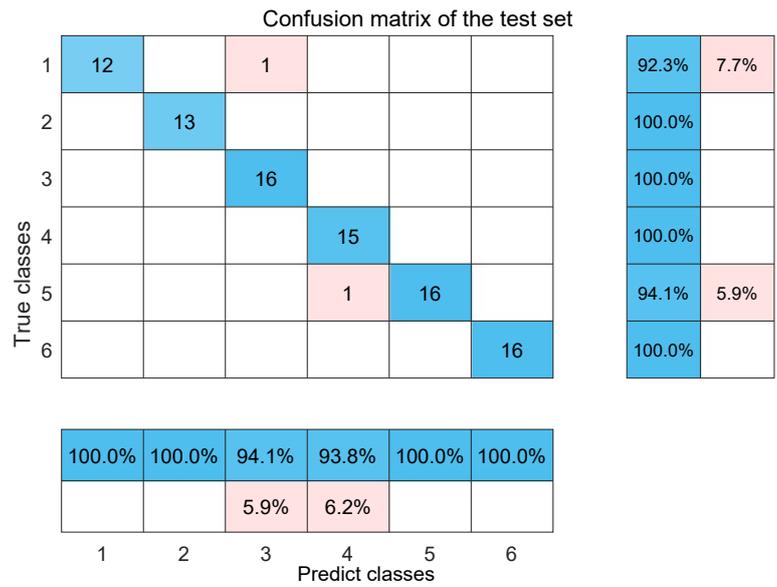


Fig. S4 Testing set confusion matrix.