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Comparison of Vis or NIR Hyperspectral Imaging and Computer Vision for Automatic Differentiation of Organically and Conventionally Farmed Salmon

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Highlights

- CVS and Vis/NIR HSI were investigated to classify salmon fillets into four grades.
- Colour and spectral feature differences of samples were extracted and analysed.
- PLS-DA, SVM and RF classifiers were applied and compared in discriminant analysis.
- Optimal variables were selected by iPLSDA in visible and NIR region, respectively.
- SVM model for the 400-1000 nm HSI yielded best result for prediction.

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