

PARQUET BLOCK SORTING

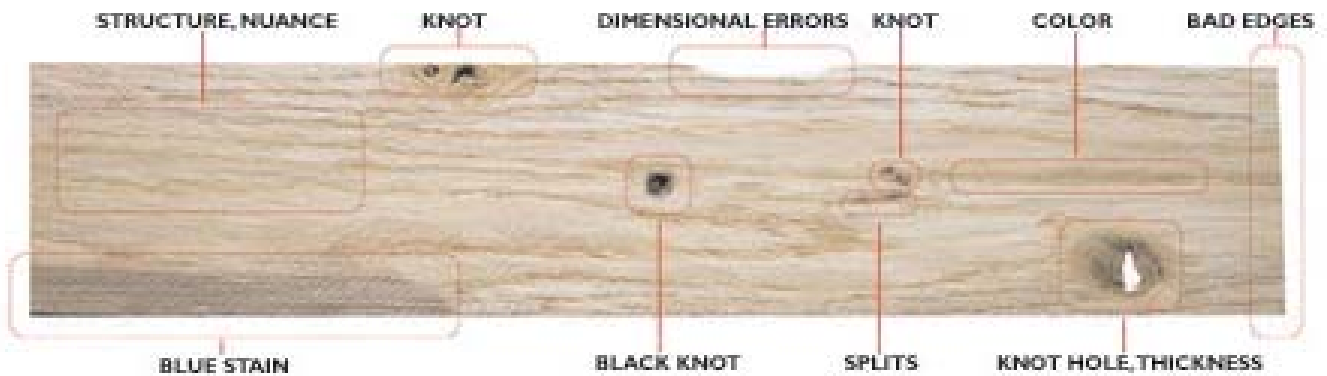


Figure 1. Wood sample.

Defects in wood surface are inspected and classified by their spectral features.

Implementation:

- continuous acquisition with halogen illumination
- custom CMOS sensor based spectral camera that allows fast readout of application specific wavelengths only
- real-time spectral classification of pixels on-chip of the smart camera, up to 2000 classified lines/s.

Spectral color imaging improves the detection and discrimination of defects in hardwood parquet blocks over RGB systems.

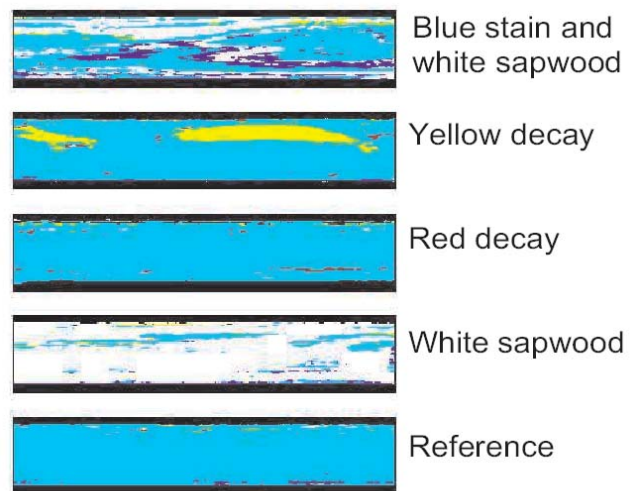


Figure 2. Visualization of classified samples.