

## EFRE-FESR-1111 “Hyperspectral images for inspection applications” (H2I)

### H2I - Workshop (<https://h2i.inf.unibz.it>)

The objective of this 1-day workshop is to disseminate the H2I project results among different stakeholders, namely, researchers, students, and industry practitioners.

The workshop will last for one day and will take place on **September 16, 2021**.

#### Program:

##### *Welcome and Introduction*

- 9:00-9:15: Workshop program overview

##### *Data modelling using Hyper-spectral images*

- 9:15-10:00: Wood industry
- 10:00-10:30: Hyper-spectral images
- 10:30-11:00: Hyper-spectral images acquisition

11:00-11:15 - Break

##### *Data classification using Deep Learning*

- 11:15-12:00: Classification using CNNs
- 12:00-12:45: Segmentation Framework for Hyper-spectral images

12:45-13:45 - Lunch

##### *Hands-on session:*

- 13:45-14:15: Spatial Classification of Hyper-spectral images
- 14:15-14:45: Spectral Classification of Hyper-spectral images
- 14:45-15:30: Data Augmentation of Hyper-spectral images
- 15:30-15:45: Fungi detection

15:45-16:00 - Break

##### *Data analysis using X-ray techniques*

- 16:00-16:45: Wood analysis using tomographic and X-ray microfluorescence techniques
- 16:45-17:30: Wood analysis using other molecular analysis

Closing and Wrap-up

17:30-17:45.

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