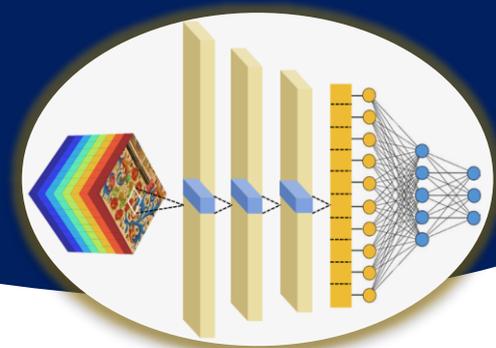


# AI4HSI Workshop

## Artificial Intelligence for Hyperspectral Imaging: Applications and Methodologies



January 16th 2026



MORNING SESSION ONLINE ONLY: [AI4HSI](#)

09:15 – 09:30 **Welcome & Introduction**

09:30 – 09:45 **Microstructure-XRF joint embedding for materials science of oil paintings**, Rob Erdman (UvA & MAD, NL-FR)

09:45 – 10:00 **An AI-Driven methodology for optimizing 2D-IBA data processing at New AGLAE**, Astrid Tazzioli (C2RMF, FR)

10:00 – 10:15 **From spectra to patterns: a typical workflow for AI-based hyperspectral authentication of paintings**, Lingxi Liu (Antwerpen University, BL)

10:15 – 10:30 **Hyperspectral Imaging and deep neural networks for material classification in cultural heritage coloured surfaces**, Patricia Gimenez Barrera (CRC-CNRS, FR)

10:30 – 10:45 **Break**

10:45 – 11:00 **Data Handler P & DataMuncher – Experiences in Open Source software for hyperspectral imaging**, Matthias Alfeld (TU Delft, NL)

11:00 – 11:15 **How the dissimilarity shapes a landscape, an example with the segmentation of X-ray fluorescence spectral images**, Serge Cohen (IPANEMA, FR)

11:15 – 11:30 **Interpretable machine learning for hyperspectral imaging of manuscripts**, Luis de Almeida (TU Delft, NL)

11:30 – 11:45 **From UMAP to SHAP: applications of AI-supported data analysis techniques to written heritage**, Marc Vermeulen (National Archives, UK)

11:45 – 12:00 **AI-based methods and HyperSpectral Imaging techniques for enhanced documentation of archaeological inscriptions: applications on ancient Egyptian hieroglyphs**, Constanza Cucci (IFAC-CNR, IT)

12:00 – 12:15 **Mapping material and color complexity in paintings using unsupervised data reduction**, Emeline Pouyet (CRC – CNRS, FR)

12:15 – 12:30 **Spatio-Spectral Clustering Algorithm: processing HSI data with AI**, Hortense de la Cordre (NU-ACCESS, USA)

AFTERNOON SESSION PRESENTIAL & ONLINE: [AI4HSI](#)

14:30 – 16:00 **\*\*\*\* PLENARY TALK \*\*\*\*** AMPHITHEATRE [DURAND](#) - 4 Place Jussieu 75005 PARIS

14:30 – 15:00 **Welcome coffee**

15:00 – 16:00 **Towards automatic classification of pigments in paintings using data from reflectance imaging spectroscopy**, John Delaney (National Gallery of Washington, USA)

16:00 – 17:00 **Roundtable discussion & Closing remarks**