



Important dates

Paper submission deadline:

April 12, 2025

Authors' notification:

May 2, 2025

Camera-ready submission:

May 15, 2025

Early registration deadline:

May 20, 2025

Conference dates:

Sept 7–9, 2029

Workshop's acronym and full title: Artworks through Measurements: Perspectives in Spectroscopic Imaging and 3D Digitalization (AMPS3D)

WS Description:

The characterisation of the materials in artwork is crucial for understanding and preserving cultural heritage for future generations. Knowledge of ancient and modern manufacturing processes, materials and skills is gained through the analysis and measurement of details and features that can reveal valuable information about the creation of a heritage item. The integration of advanced non-invasive techniques and 3D digitalisation methods can be an effective way to explore and acquire such knowledge. The workshop aims to investigate the connection between cultural heritage active or passive 3D acquisition techniques for the characterisation and digitisation of small- to medium-sized works of art. In particular, 3D surveying techniques are applied to acquire object shape and appearance, while spectroscopic methods are used for materials characterisation. Contributions addressing either or both of these topics, as well as their integrated use, are welcome.

Topic

- Small-to-medium object
- Ancient and modern materials
- Multi-hyper spectral imaging
- Spectroscopic techniques
- 3D methods
- Data elaboration and enhancement
- 3D scanning, photogrammetry, gaussian splatting
- Scalability in 3D approaches
- AI algorithms for data analysis, segmentation and processing
- Quality assessment

The workshop conference will accept high-quality regular research papers, Systematization of Knowledge (SoK) papers providing insights in the above areas, and industrial papers promoting contributions on technology development, innovations and implementations.

Submitted manuscripts should not exceed 6 pages (plus 2 extra pages, being subject to overlength page charges) and should be of sufficient detail to be evaluated by expert reviewers in the field. The conference (including workshops) proceedings will be published by IEEE and will be included in IEEE Xplore. Detailed information about the paper submission and guidelines to authors will be posted on the IEEE CH conference website <https://www.ieee-ch.org>.

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