

IET Image Processing

Call for Papers

Submission Deadline: 31 January 2023 | Publication Date: April 2023

Editor-in-Chief: Farzin Deravi, University of Kent, UK

Special Issue on:

Advancements in Fine Art Pattern Extraction and Recognition

Cultural heritage, especially fine arts, plays an invaluable role in the cultural, historical and economic growth of our societies. Fine arts are primarily developed for aesthetic purposes and are mainly expressed through painting, sculpture and architecture. In recent years, thanks to technological improvements and drastic cost reductions, a large-scale digitization effort has been made, which has led to an increasing availability of large digitized fine art collections. This availability, coupled with recent advances in pattern recognition and computer vision, has disclosed new opportunities, especially for researchers in these fields, to assist the art community with automatic tools to further analyze and understand fine arts. Among other benefits, a deeper understanding of fine arts has the potential to make them more accessible to a wider population, both in terms of fruition and creation, thus supporting the spread of culture.

This special issue aims to offer the opportunity to present advancements in the state-of-the-art, innovative research, ongoing projects, and academic and industrial reports on the application of visual pattern extraction and recognition for a better understanding and fruition of fine arts, soliciting contributions from pattern recognition, computer vision, artificial intelligence and image processing research areas. The special issue will be linked to the 2nd International Workshop on Fine Art Pattern Extraction and Recognition ([FAPER2022](#)). Authors of selected conference papers will be invited to extend and improve their contributions for this special issue, and authors are also invited to submit new contributions (non-conference papers).

Topics of interest include, but are not limited to:

- Applications of machine learning and deep learning to cultural heritage and digital humanities
- Computer vision and multimedia data processing for fine arts
- Generative adversarial networks for artistic data
- Augmented and virtual reality for cultural heritage
- 3D reconstruction of historical artifacts
- Point cloud segmentation and classification for cultural heritage
- Historical document analysis
- Content-based retrieval in visual art domain
- Digitally enriched museum visits
- Smart interactive experiences in cultural sites
- Project, products or prototypes for cultural heritage



From January 2021, The IET began an Open Access publishing partnership with Wiley. As a result, all submissions that are accepted for this Special Issue will be published under the Gold Open Access Model and subject to the Article Processing Charge (APC) of \$2,300. For further information on APCs, and support for APCs including Wiley's institutional agreements and Research4Life initiative which offers waivers and automatic discounts for certain countries, please see our [Affiliation Policies and Payments](#) page and our [FAQs](#). To submit your paper and for more information about the journal please visit our [website](#) and read our [Author Guide](#).

Guest Editors:

Fabio Bellavia
University of Palermo, Italy
E: fabio.bellavia@unipa.it

Giovanna Castellano
University of Bari, Italy
E: giovanna.castellano@uniba.it

Gennaro Vessio
University of Bari, Italy
E: gennaro.vessio@uniba.it

Sinem Aslan
University of Venice, Italy
E: sinem.aslan@unive.it