

The enormous amount of artifacts and information from the past is increasingly and rapidly digitized. However, the valuable information in these data is not easy to exploit, and some analysis is needed. On the other hand, the digital representations of real objects require some manipulation. Recent machine learning and pattern recognition algorithms allow the analysis and manipulation of the acquired data to exploit the contained information better and generate the best digital representation.

This workshop presents recent advances in Pattern Recognition (PR) techniques for data analysis and representation in the cultural heritage field. Bringing together the work of many experts in this multidisciplinary subject to highlight these advances from a wide-angle perspective and stimulate new theoretical and applied research to better characterize the state of the art in this subject.

The workshop will be held on the **11th or 15th of September 2023** (*to be defined*), in conjunction with the 22nd International Conference on Image Analysis and Processing (ICIAP2023 - 12th to 14th September 2023 in Udine, Italy) as part of the Digital Humanities Hub, a container that will include several workshops in this macro area.

Topics include, but are not limited to the following

- Digital artifact capture, representation, and manipulation
- Automatic annotation of tangible and intangible heritage
- Interactive software tools for cultural heritage applications
- Multimedia music classification and reconstruction
- Image processing, classification and retrieval
- Machine Learning for Cultural Heritage
- Semantic segmentation
- Serious Game for Cultural Heritage
- Robotic applications
- Ontology Learning for Cultural Heritage domain

Important Dates

- | | |
|-------------------------------|--|
| • Submission deadline: | June 23rd, 2023 |
| • Author notification: | July 23rd, 2023 |
| • Camera-ready Submission: | July 31st, 2023 |
| • Finalized workshop program: | August 1st, 2023 |
| • Workshop day: | September 11th or 15th, 2023 (to be defined) |

Proceedings and Special Issue

Accepted papers will be included in the ICIAP 2023 Workshop Proceedings, which will be published by Springer in the Lecture Notes in Computer Science (LNCS). All papers to appear in the proceedings must follow the instructions set forth by Springer for the "preparation of proceedings papers published in the LNCS".

Authors of selected high-quality papers will be invited to submit substantially extended versions for a Special Issue in an international journal of at least the Q2 quartile, with which we are still negotiating at the moment.

Chairs and Contact Information

Dario Allegra, Università degli Studi di Catania, dario.allegra@unict.it
Mario Molinara, Università di Cassino e del Lazio meridionale, m.molinara@unicas.it
Alessandra Scotto di Freca, Università di Cassino e del Lazio meridionale, a.scotto@unicas.it
Filippo Stanco, Università degli Studi di Catania, filippo.stanco@unict.it