The enormous amount of artefacts and information that come from the past is increasingly and rapidly being digitized. However, the useful information contained in these data is not easy to exploit and some kind of analysis is needed. On the other hand, the digital representations of real objects require for some kind of manipulation. Recent machine learning and pattern recognition algorithms give the opportunity to analyze and manipulate the acquired data in order to better exploit the contained information and generate the best digital representation.

The aim of this workshop is to present 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, as well as to stimulate new theoretical and applied research for better characterizing the state of the art in this subject.

The workshop will be held on 9 September 2019, in conjunction with the 20th International Conference on Image Analysis and Processing (ICIAP 2019), that will be held from 9 to 13 September 2019 in Trento, Italy.

**Topics include, but are not limited to the following:**

- Ancient document analysis
- 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
- Augmented and Virtual Reality applications
- Image processing, classification and retrieval
- Semantic segmentation
- Serious Game for Cultural Heritage
- Robotic applications
- Ontology Learning for cultural heritage domain

**Dates and chairs:**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Contact Information</th>
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</thead>
<tbody>
<tr>
<td>Paper submission</td>
<td>June 17, 2019 (extended)</td>
<td>Francesco Fontanella, University of Cassino, Italy</td>
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<td>Notification of Acceptance</td>
<td>June 30, 2019</td>
<td>Mario Molinara, University of Cassino, Italy</td>
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<tr>
<td>Full Paper Submission</td>
<td>July 10, 2019</td>
<td>Filippo Stanco, University of Catania, Italy</td>
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**Proceedings and Special Issue**

Accepted papers will be included in the ICIAP 2019 Conference Proceedings, which will be published by Springer in the Lecture Notes in Computer Science series (LNCS).

Authors of selected high-quality papers will be invited to submit substantially extended versions for a Special Issue on the ACM Journal on Computing and Cultural Heritage (JOCCH).

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Workshop website: http://lia.unicas.it/patrech2019