

SUMAC 2019

The 1st workshop on Structuring and Understanding of Multimedia heritAge Contents

In conjunction with ACM Multimedia 2019

21 - 25 October 2019, Nice, France

https://sumac2019.ec-lyon.fr

Aims and scope

The digitization of large quantities of analogue data and the massive production of born-digital documents for many years now provide us with large volumes of varied multimedia data (images, maps, text, video, multi-sensor data, etc.), an important feature of which is that they are cross-domain. "Cross-domain" reflects the fact that these data may have been acquired in very different conditions: different acquisition systems, times and points of view (e.g. a 1962 postcard from the Arc de Triomphe vs. a recent street-view mobile mapping acquisition of the same monument). These data represent an extremely rich heritage that can be exploited in a wide variety of fields, from SSH to land use and territorial policies, including smart city, urban planning, tourism, creative media and entertainment.

In terms of research in computer science, they address challenging problems related to the diversity and volume of the media across time, the variety of content descriptors (potentially including the time dimension), the veracity of the data, and the different user needs with respect to engaging with this rich material and the extraction of value out of the data. These challenges are reflected in research topics such as multimodal and mixed media search, automatic content analysis, multimedia linking and recommendation, and big data analysis and visualization, where scientific bottlenecks may be exacerbated by the time dimension, which also provides topics of interest such as multimodal time series analysis. The objective of this workshop is to present and discuss the latest and most significant trends in the analysis, structuring and understanding of multimedia contents dedicated to the valorization of heritage, with the emphasis on the unlocking of and access to the big data of the past. We welcome research contributions related to the following (but not limited to) topics:

- Multimedia and cross-domain data interlinking and recommendation
- Dating and geolocalization of historical data
- Mixed media data access and indexing
- Deep learning in adverse conditions (transfer learning, learning with side information, etc.)
- Multi-modal time series analysis, evolution modeling
- Multi-modal and multi-temporal data rendering
- HCI / Interfaces for large scale data sets
- Smart digitization of massive quantities of data
- Benchmarking

Submission guidelines

Submission Due: Monday 8 July 2019
Acceptance Notification: Monday 5 August 2019
Camera Ready Submission: TBD
For paper guidelines please visit https://www.acmmm.org/2019/submission/

Organizers

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