

## Preface

The International Joint Workshop on “Semantic Web and Ontology Design for Cultural Heritage” (SWODCH 2021) was the result of the integration of the International Workshop on Ontologies for Digital Humanities and their Social Analysis (WODHSA), the International Workshop on Semantic Web for Cultural Heritage (SW4CH) and the International Workshop on Open Data and Ontologies for Cultural Heritage (ODOCH). It was held on 20 and 21 of September, 2021 as part of the Bolzano Summer of Knowledge 2021 (BOSK). The aim of SWODCH 2021 was to bring together researchers and practitioners from Computer Science, Information Science and Digital Humanities to present their work and discuss their ongoing research on the design of ontologies and the development and deployment of Semantic Web solutions for Cultural Heritage and the Digital Humanities. Both Cultural Heritage and the Digital Humanities are characterised by heterogeneous data, which is typically available in diverse languages and formats, and are in need of solutions that will make this data findable, accessible, interoperable and reusable, while taking into account their social and historical dimensions. Researchers in these domains have realised that Semantic Web technologies and standards (such as RDF, SPARQL and OWL), which are used to create, maintain and computationally exploit ontologies and knowledge graphs, are key to addressing these challenges, and a growing number of institutions have adopted such technologies for managing their data. The main goal of SWODCH 2021 was to present the research and technical developments in a range of related topics including the conceptual analysis and the design of ontologies for fields such as history, history of arts, book studies, theatre, literature, editorial practices, archeology, musicology, cultural and natural heritage, semantics-based methods, tools and systems for creating, annotating, analysing, integrating, accessing, browsing, sharing, publishing, retrieving and visualising cultural heritage data and applications of Semantic Web technologies for digital libraries, museums, tourist services and the creative industries.

These proceedings present the 9 accepted papers of the workshop. These papers were selected from a total of 13 submissions, resulting in an acceptance rate of 69%. Each submission was peer-reviewed by three experts in the field according to its relevance to the workshop, originality, quality of presentation and technical quality. The topics of the accepted papers range from new ontologies and vocabularies for specific fields of Cultural Heritage and Digital Humanities, to novel methods for extracting information from cultural heritage datasets and knowledge graphs, to new applications and use cases of Semantic Web technologies. Each paper was allocated up to 12 pages in the proceedings, and its authors were invited to present their paper at the workshop. The programme of the workshop also includes two invited talks: the first one on capturing complex heritage knowledge, delivered by Marieke van Erp, head of the Digital Humanities Research Lab at KNAW Humanities Cluster (Amsterdam); and the second on digital knowledge presentation within the National Gallery, London, delivered by Joseph Padfield, principal scientist at the National Gallery. Abstracts of the invited talks are also included in the proceedings.

We would like to thank all authors for submitting their papers and for presenting their research in this workshop. We also want to thank the invited speakers for their very interesting and inspiring talks. We are very grateful to the organisers of the Bolzano Summer of Knowledge for hosting and contributing to the organisation of this workshop. Last but not least, we would like to thank the excellent Program Committee for their hard work in reviewing the submitted papers. Their criticism and very useful comments and suggestions were instrumental in achieving this high-quality publication. The names of the PC members as well as other information about the workshop are available in the workshop's website: <https://swodch2021.inf.unibz.it/>.

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