SWODCH 2023

Semantic Web and Ontology Design for Cultural Heritage

ISWC 2023 NOVEMBER 6-10 ATHENS-GREECE

@ISWC-2023, Athens (Greece), 7 November 2023

https://swodch2023.inf.unibz.it/

Organising Committee

- Antonis Bikakis, University College London (U.K.)
- Roberta Ferrario, ISTC-CNR, Trento (Italy)
- Stéphane Jean, University of Poitiers – ENSMA (France)
- Béatrice Markhoff, University of Tours (France)
- Alessandro Mosca, Free University of Bozen-Bolzano (Italy)
- Marianna Nicolosi Asmundo, University of Catania (Italy)

Past workshops

- SWODCH-2021
  - https://swodch2021.inf.unibz.it/
  - online@Bolzano Summer of Knowledge 2021
  - 13 submissions, 9 accepted
  - Authors from 8 different countries
- SWODCH-2022
  - hybrid@ADBIS 2022
  - https://swodch2022.inf.unibz.it/
  - 14 submissions, 7 accepted
  - Authors from 8 different countries
- SW4CH 2015, 2017, 2018, WODHSA 2019

Special Issues

- Semantic Web for Cultural Heritage (2021)
  - https://content.iospress.com/journals/semantic-web/12/2
  - Semantic Web Journal
  - 30 submissions, 11 published articles
- Semantic Web and Ontology Design for Cultural Heritage (2023)
  - https://dl.acm.org/journal/JOCCH/semanticwebch
  - Journal on Computing and Cultural Heritage
  - 24 submissions, 10 published articles
- Upcoming special issue in SWJ

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Aims

- Gather foundational research work on the design of conceptual models, knowledge graphs, ontologies, and Semantic Web technologies for Cultural Heritage and the Digital Humanities
- Bring together stakeholders from various fields of Computer Science and the Humanities, involved in the development and deployment of concrete SW solutions for CH
- exchange news and ideas on current and future projects

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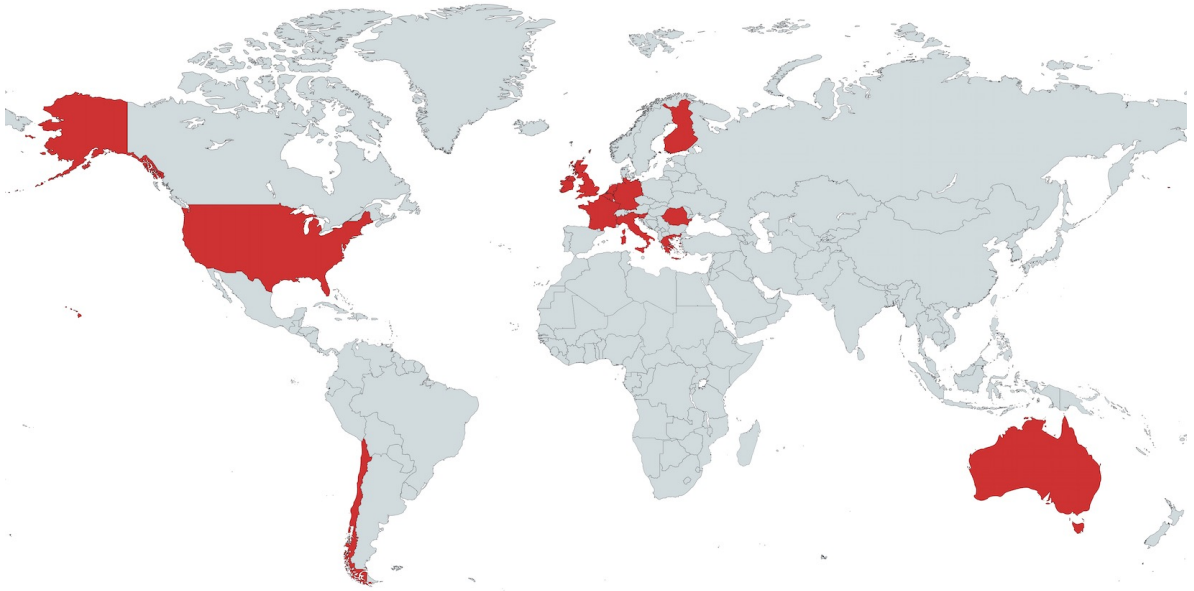
Submissions

- 20 submissions, 11 accepted
- Authors from 14 different countries
  - Australia, Belgium, Chile, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Romania, Slovenia, United Kingdom, USA



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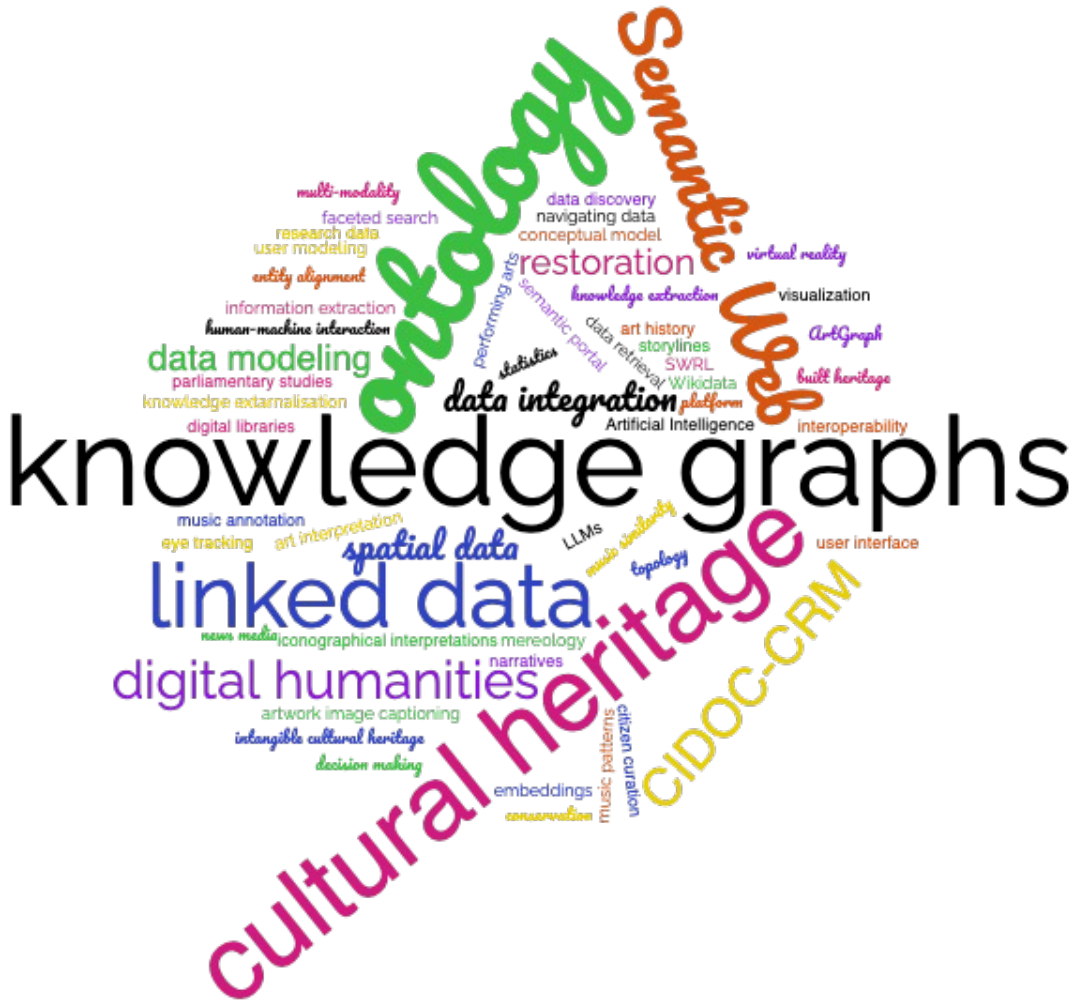
Keywords



Review process

- Each paper was reviewed by at least 3 reviewers on the basis of
  - Relevance
  - Originality
  - Technical merit
  - Presentation
  - (Re)usability
- 40 PC members
  - https://swodch2023.inf.unibz.it/?page_id=61
- Final acceptance decision by the workshop chairs
- https://ceur-ws.org/Vol-3540/

Proceedings

- The proceedings of SWODCH-2023 are available at:

  https://ceur-ws.org/Vol-3540/

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Programme Overview (7 November 2023)

9.20 – 10.40	Introduction & Cultural Heritage Data Modelling
10.40 – 11.20	Coffee break
11.20 – 12.40	Cultural Heritage Ontologies
12.40 – 14.00	Lunch break
14:00 – 15.20	Data-driven approaches for Cultural Heritage
15.20 – 16.00	Coffee break
16.00 – 17.20	Semantic Portals for Cultural Heritage & Closing Discussion

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Session 1: Cultural Heritage Data Modelling

09.35	**Patterns2KG: JAMS pipeline for modeling music patterns** Abdul Shahid, Danny Diamond and James McDermott
10.00	**RCC8 for CIDOC CRM: semantic modeling of mereological and topological spatial relations in Notre-Dame de Paris** Guillem Anais, Antoine Gros, Kevin Reby, Violette Abergel and Livio De Luca
10.25	**A Data Model for Linked Stage Graph and the Historical Performing Arts Domain** Tabea Tietz, Oleksandra Bruns and Harald Sack

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Session 2: Cultural Heritage Ontologies

11.20	**An ontology to support decision-making in conservation and restoration interventions of cultural heritage** *Efthymia Moraitou, Yannis Christodoulou, Konstantinos Kotis and George Caridakis*
11.45	**A comparative study of simple and complex art interpretations in linked open data using ICON ontology** *Bruno Sartini and Sofia Baroncini*
12.10	**An Ontology for Creating Hypermedia Stories over Knowledge Graphs** *Pasquale Lisena, Daniel Schwabe, Marieke van Erp, Inger Leemans, William Tullett, Raphaël Troncy, Sofia Colette Ehrich and Thibault Ehrhart*

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Session 3: Data-driven approaches for Cultural Heritage

14.00	**A Data-driven Approach to Create an Ontology of Parliamentary Work: Case Parliament of Finland on the Semantic Web** *Eero Hyvönen, Petri Leskinen and Jouni Tuominen*
14.25	**A comparative study of simple and complex art interpretations in linked open data using ICON ontology** *Bruno Sartini and Sofia Baroncini*
14.40	**Enhancing Entity Alignment Between Wikidata and ArtGraph using LLMs** *Anna-Sofia Lippolis, Antonis Klironomos, Daniela F. Milon-Flores, Heng Zheng, Alexane Jouglar, Ebrahim Norouzi and Aidan Hogan*

Session 4: Semantic Portals for Cultural Heritage

16.00	**Publishing and studying historical opera and music theatre performances on the Semantic Web: case OperaSampo 1830-1960** *Annastiina Ahola, Eero Hyvönen, Heikki Rantala and Anne Kauppala*
16.25	**Why we need Ontology-specific Data Portals: A case study for CIDOC-CRM** *Michalis Mountantonakis, Ioannis Theocharakis and Yannis Tzitzikas*
16.50	**Closing Discussion**