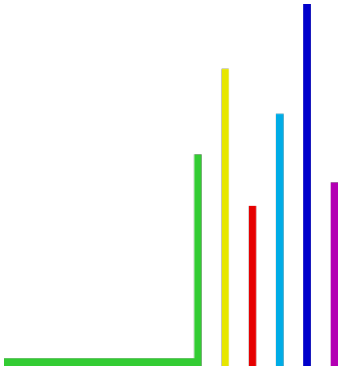

LDAC2022
10th Linked Data in Architecture and Construction Workshop

Proceedings of the 10th Linked Data in Architecture and Construction Workshop (LDAC 2022)

Hersonissos, Greece, May 29, 2022

Pieter Pauwels, María Poveda-Villalón, Walter Terkaj
(eds)

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The LDAC workshop series provides a focused overview on technical and applied research regarding the usage of semantic web, linked data and web of data technologies for architecture and construction (design, engineering, construction, operation, etc.). The workshop aims at gathering researchers, industry stakeholders, and standardization bodies of the broader Linked Building Data (LBD) community. The aim of the workshop is to present current developments, coordinate efforts, gather stakeholders, and elaborate use cases.

We are pleased to collect in this volume the papers that were submitted and presented during the 10th Linked Data in Architecture and Construction (LDAC) Workshop. The workshop took place on 29 May 2022, co-located with the 19th European Semantic Web Conference (ESWC 2022) in Hersonissos, Greece. Specifically, LDAC 2022 was part of ESWC Workshops and Tutorials. The workshop attendees attended the presentations of nine peer reviewed paper submissions in the proceedings. Furthermore, the workshop included an industry session, with three contributions.

Finally, the workshop also included an inspiring keynote by Ian Horrocks (University of Oxford): "*Reasoning over Knowledge Graphs: Motivation, Theory and Practice*". Knowledge Graphs (KGs) have rapidly become a mainstream technology that combines features of databases and AI. In this talk, Prof. Horrocks briefly introduced KGs, focusing in particular on the comparison between KGs and relational databases, and explaining why reasoning over KGs is critical to their effective deployment. Furthermore, this keynote explained the theory behind robust and scalable KG reasoning, and shows how this has been translated into practice in the RDFox system. Finally, Prof. Horrocks illustrated the wide applicability of KGs with some examples of real-world applications.

Acknowledgments

We would like to thank the authors and presenters for their qualitative contributions, the Programme Committee who reviewed the papers presented in this volume, the keynote speaker Ian Horrocks for his availability and talk, and Mehwish Alam, Anastasia Dimou and all ESWC2022 organisers for making this event possible.

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