Linked Data on the Web and its Relationship with Distributed Ledgers (LDOW/LDDL)

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The Web is developing from a medium for publishing documents into a medium for sharing structured data. This trend is fueled on the one hand by the adoption of the Linked Data principles by a growing number of data providers. On the other hand, large numbers of websites have started to semantically mark up the content of their HTML pages and thus also contribute to the wealth of structured data available on the Web. Recently, Distributed Ledger Technologies (DLTs) have emerged as a novel way to manage and exchange digital assets among a large number of agents in a decentralised way, leading to a rethink of consensus algorithms. Distributed Ledgers may be one answer to the problems of trust, validation and re-decentralisation of the Web, for instance in the context of Linked Data. Conversely, Linked Data and Web technologies could help Distributed Ledger technologies for solving their very own challenges, such as interoperability, indexing and querying.

The workshop on Linked Data on the Web and its Relationship to Distributed Ledgers (LDOW/LDDL) aims to stimulate discussion and further research into the challenges of publishing, consuming, and integrating structured data from the Web, covering established topics of the Linked Data on the Web (LDOW) community. As this year's edition represents the coming together of the established Workshop on Linked Data On the Web (LDOW) with the Workshop on Linked Data and Distributed Ledgers (LDDL), the workshop additionally addressed the question of how distributed ledgers could help towards solving some of these challenges, and how Linked Data technologies may help distributed ledgers to become more open and interoperable.

Building on the success of previous editions of LDOW and LDDL, this workshop provides a forum for researchers and practitioners in the aforementioned topics, most notably, interested in the intersection of Linked Data on the Web and Distributed Ledgers. Following structured peer-review (each submission was reviewed by at least three independent reviewers), we were able to select 5 papers for presentation in the program which are complemented by two keynote talks from Craig Knobloch (*"Building Knowledge Graphs from Online Sources to Solve Societal Problems"*) and Daniel Burnett (*"Credentials and Identifiers, NOT Identity!"*).

The workshop would not have been possible without the contributions of many people and institutions. We are very thankful to the organizers of the WWW 2019 conference for providing us with the opportunity to organize the workshop, for their excellent collaboration, and for looking after many important logistic issues. We are also very grateful to the members of the program committee for their commitment in reviewing the papers and assuring the good quality of the workshop program. We also thank all authors and invited speakers for their invaluable contributions to the workshop.

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