Special Session on
KNOWledgE gRaphs (KNOWER)
at
21ˢᵗ International Conference on Intelligent Systems Design and Its Applications
(ISDA)

on
World Wide Web
December 13-15, 2021

Objectives and Scope

The focus of this special session is to reveal novel methodologies and frameworks on profiling Linked Data as well as to highlight tools and user interfaces which can effectively assist different use cases for profiling. In addition, the session seeks methodologies that help effective profiling in building real-world Linked Data applications leveraging data and ontology profiles, as well as use cases that reveal success stories or aspects that have been neglected so far. The benefits of addressing Linked Data profiling issues will not only help in understanding and exploring the data, but also provide the means to increase Linked Data consumption, but also provide means to maintain track of the evolution of the datasets. Recently, the increasing diffusion of Linked Data (LD) as a standard way to publish and structure data on the Web has received a growing attention from researchers and data publishers for publishing and connecting structured data on the Web allowing the publication and information exchange in an interoperable way. Many different domains have adopted Linked Data best practices as it is shown by the dramatic growth of the Linked Data cloud. Despite the high number of datasets published as LD, their usage is still not exploited as they lack comprehensive metadata. Data consumers need to obtain information about datasets content, in a fast and summarized form to decide if they are useful for their use case at hand or not. Data profiling techniques offer an efficient solution to this problem as they are used to generate metadata and statistics that describe the content of the dataset. The objective of this special session is to bring together researchers and practitioners interested in the development of data profiling techniques and generation of semantic profiles on the web.

Subtopics

The proposed session seeks application-oriented papers, as well as more theoretical papers and position papers. The workshop proposes a multidisciplinary discussion on the following themes, with a focus on RDF, CSV, JSON and other structured and semi-structured datasets:

- Semantic profiles representation
- Evaluation of dataset profiles tools and algorithms
- Data summarisation
- Topic profiling
- Novel applications and use cases using semantic profiles
- Fusing and refining profiling results
- Scalability & performance of generating semantic profiles
- Shacl constraints as means for profiling

Paper Publications
- Proceedings will be published in Lecture Notes in Networks and Systems, Springer (Indexed in SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago)
  https://www.springer.com/series/15179
- Papers maximum length is 10 pages
- Papers must be formatted according to Springer format (Latex/word) available at: https://www.springer.com/de/authors-editors/book-authors-editors/manuscript-preparation/5636#c3324

Important Dates
Paper submission due: September 30, 2021
Notification of paper acceptance: October 31, 2021
Registration and Final manuscript due: November 15, 2021
Conference: December 13-15, 2021

Special Session Chair
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