Knowledge Graph Construction Workshop

Full Day Workshop co-located with ESWC 2021
6th June - Online
2 years ago… 1st edition ESWC 2019
2nd edition of the KGC Workshop
With an special focus on user’s role and mapping challenges

- 16 papers submitted (1 withdraw, 2 rejected, 13 accepted):
  - 5 research papers
  - 4 experience papers
  - 3 position papers
  - 1 demo paper

- Open-Review process:
  - 42 distinguish researchers part of the Program Committee
  - All papers received between 3 and 4 reviews + meta-review
    - Besides some exceptions, each paper was reviewed by
      1 professor, 1 senior researcher, 1 junior researcher, 1 reviewer from industry
Communication

- Slack channel: #workshop-kgc
- Twitter: Follow @kgc_workshop and use #KGCW2021
- Breaks and beers at the end in Gather.town
- Zoom: ask questions, discuss… be active! (cameras are allowed 😊)

Keynote and Panel

- 15:00 - 16:00: Keynote by Jesús Barrasa @ Neo4j: "Knowledge graphs 2021: The great convergence"

- 17:30 - 18:30: Panel on Machine Learning for KG construction:
  - Maria-Esther Vidal
  - Heiko Paulheim
  - Francesco Osborne
  - Ernesto Jiménez-Ruiz
S1: Experiences in KG Construction (11:00-12:45)

Experiences of Using WDumper to Create Topical Subsets from Wikidata. Seyed Amir Hosseini Beghaeiraveri, Alasdair Gray, Fiona McNeill

Knowledge Graph Construction with R2RML and RML: An ETL System-Based Overview. Julián Arenas-Guerrero, Mario Scrocca, Ana Iglesias-Molina, Jhon Toledo, Luis Pozo-Gilo, Daniel Doña, Oscar Corcho, David Chaves-Fraga

Knowledge Graph Lifecycle: Building and maintaining Knowledge Graphs. Umutcan Şimşek, Kevin Angele, Elias Kärle, Juliette Opdenplatz, Dennis Sommer, Jürgen Umbrich, Dieter Fensel

Collaborative-AI Knowledge Graph Generation: Taxonomization of IATE, the EU Terminology. Alena Vasilevich, Michael Wetzel, Stelios Mathioulakis, Jochen Hummel
Introduction to the KG-Construction W3C Community Group. **David Chaves**, Anastasia Dimou

Mapping Spreadsheets to RDF: Supporting Excel in RML. **Markus Schröder**, Christian Jilek, Andreas Dengel

A ShExML perspective on mapping challenges: already solved ones, language modifications and future required actions. **Herminio García-González**

Integrating nested data into knowledge graphs with RML fields. **Thomas Delva**, Dylan Van Assche, Pieter Heyvaert, Ben De Meester, Anastasia Dimou

Discussions on next steps with the CG & wrap up. **Anastasia Dimou**, David Chaves
Intro to the keynote speaker. **Juan Sequeda**


**Stratified Data Integration.** Fausto Giunchiglia, Alessio Zamboni, **Mayukh Bagchi**, Simone Bocca

Everything for the users, nothing by the users: Lessons learnt from an heterogeneous data mapping languages user study. **Herminio García-González**
S4: Machine Learning for KGC (17:00-18:30)

*Open Drug Knowledge Graph.* Mark Mann, Filip Ilievski, Mohammad Rostami, Aastha Aastha, Basel Shbita

*Demo: Knowledge Graph-Based Housing Market Analysis.* Ziping Hu, Zepei Zhao, Mohammad Rostami, Filip Ilievski, Basel Shbita

*JenTab: A Toolkit for Semantic Table Annotations.* Nora Abdelmageed, Sirko Schindler

*Embedding-Assisted Entity Resolution for Knowledge Graphs.* Daniel Obraczka, Jonathan Schuchart, Erhard Rahm

Panel with ML experts on KG Construction.
Heiko Paulheim, Ernesto Jiménez-Ruiz, Francesco Osborne, and Maria-Esther Vidal