The 1st International Workshop on Knowledge Graphs for Sustainability

May 1st 2023
Austin, Texas
Workshop Motivation

*Global challenges need global large-scale solutions*

*The Web – and KGs!*

Focus on KG-based applications and solutions for sustainability goals
- Ecological
- Economical
- Social
Supporting Institutions and Projects
Organising committee

Eva Blomqvist, Linköping University, Sweden
María Poveda-Villalón, Universidad Politécnica de Madrid, Spain
Raúl García-Castro, Universidad Politécnica de Madrid, Spain
Pascal Hitzler, Kansas State University, USA
Mikael Lindecrantz, Ragn-Sells AB, Sweden
Submission Process

• Call for papers
  • Research papers (short, long), demos, resources, positions papers...
  • Presentation-only submissions

• 5 submissions
  • Program consists of 3 papers (one short) & 1 industry presentation
Program

9:00-9:10  Opening and introduction

9:10-10:00  Invited talk: R. V. Guha (Google). *Sustainability Data Commons*
            Online keynote in zoom.
            [https://liu-se.zoom.us/j/68711695428](https://liu-se.zoom.us/j/68711695428)
            Password: 726010

5 min break

10:05-10:25  Survey paper presentation:
              Huanyu Li, Mina Abd Nikooie Pour, Ying Li, Mikael Lindecrantz,
              Eva Blomqvist and Patrick Lambrix. *A Survey of General Ontologies for the Cross-Industry Domain of Circular Economy*

5 min walk to the main conference center

10:30-11:00  Coffee break - Note: location is Zlotnik Ballroom Foyer

5 min walk to the main conference center
Program

11:05-11:25  Short paper presentation:
             Yinglun Zhang, Antonina Broyaka, Jude Kasten, Allen
             Featherstone, Cogan Shimizu, Pascal Hitzler and Hande Küçük
             McGinty. *Sustainable Grain Transportation in Ukraine Amidst
             War Utilizing KNARM and KnowWhereGraph*

11:25-11:45  Industry talk: Andreas Blumauer. The ESG Knowledge Hub

5 min break

11:50-12:10 Research paper presentation:
             Dario Garigliotti, Johannes Bjerva, Finn Årup Nielsen, Annika
             Butzbach, Ivar Lyhne, Lone Kørnøv and Katja Hose. *Do bridges
dream of water pollutants? Towards DreamsKG, a knowledge
graph to make digital access for sustainable environmental
assessment come true.*

12:10-12:20 Short discussion - **What are the most important steps ahead?**

12:20-12:30 Closing
Questions for Closing Discussion

• In what areas can KGs make a difference next?
  • Ecological sustainability?
  • Economical sustainability?
  • Social sustainability?
• What new KG technologies and solutions are needed?
  • What innovations are needed?
  • What research?

What do we need to do next, as a community?
Let’s get started...