

A photograph of a person's hands cupped together, holding a small green plant with dark soil. The background is a blurred green field. The image is partially covered by a white semi-transparent overlay on the right side where the text is located.

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,
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María Poveda-Villalón,
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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>

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?

A background image showing a pair of hands gently holding a small green plant seedling in a mound of dark soil. The hands are positioned one above the other, with fingers slightly curled to support the plant. The background is a soft-focus outdoor scene with green foliage.

Let's get started...