esade
RAMON LLULL UNIVERSITY

Institute for Data
Driven Decisions
(Esaded3)

35th International Workshop on Qualitative Reasoning

IJCAI | ECAI
VIENNA | 22

Saturday, July 23 2022

Programme #19

(ROOM: GALLERIE11-12)

9.15 to 9.30 **Welcome**

9.30 to 10.30 **Invited Lecture:**
Location Retrieval Using Visible Landmarks
based Qualitative Place Signatures (Prof. A. Cohn)

10.30 to 11.00 **Coffee Break**

11.00 to 12.30 **Long Papers session I (4 papers)**

- Qualitative control of cart and pole on uneven terrain
  Domen Šoberl and Ivan Bratko

- Learning Domain Knowledge and Systems Thinking
  using Qualitative Representations in Secondary
  Education (grade 10-12)
  Marco Kragten, Emile Jaspar and Bert Bredeweg

- On the Use of Qualitative Reasoning in Autonomous
  Driving
  Lorenz Klampfl and Franz Wotawa

- Contextualizing Large-Scale Domain Knowledge for
  Conceptual Modeling and Simulation
  *Sungeun An, Spencer Rugaber, Jen Hammock and
  Ashok Goel*

12.30 to 14.00 **Lunch**

14.00 to 14.30 **Demo session:**
How CogSketch uses Qualitative Representations and
Analogy for Visual Reasoning and Learning

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14.30 to 15.30   **Short Papers session II (4 papers)**

- A qualitative approach for aggregating people's perceptions
  Francisco J. Ruiz, Núria Agell and Mónica Sánchez

- A qualitative reasoning-based tool for security analysis of cyber-physical systems
  András Földvári, Gergely Biczók and András Pataricza

- Decision Support for Water Treatment – Challenging Model-based Reasoning
  Peter Struss and Radhika Selvamani

- Analyzing and comparing global news sentiment using linguistic terms
  Jennifer Nguyen, Albert Armisen, Núria Agell and Angel Saz

15.30 to 15.45   **Coffee break**

15.45 to 17.15   **Long Papers session III (4 papers)**

- Integrating QR Quantity Representations with the Semantic Web,
  Kenneth Forbus and Walker Demel

- How to Design a Nail-Clipper
  John T. Maxwell III, Morad Behandish, Johan de Kleer, Ion Matei and Matthew Klenk

- Understanding Narratives through Dimensions of Analogy
  Thiloshon Nagarajah, Filip Ilievski and Jay Pujara

- Categorization of Food Images by Analysing the Harmony of their Qualitative Colour Palettes
  Vicente Casales-Garcia, Lledó Museros, Ismael Sanz, Zoe Falomir and Luis Gonzalez-Abril

17.15 to 17.45   **General Meeting & Closure**