TDT 55 – Knowledge Intensive CBR

Seminar 1: Initial Papers & Start-Up

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Sep 12, 2023

Agenda

- Welcome & Introduction
- How to read and present a paper
- Distribution of papers
- Discussion of initial papers

Welcome & Introduction

- Name
- Topic of master’s thesis, supervisor(s)

How to read a paper: structure & goals

- Context of the paper
  - Motivation and group or person who's presenting the work
- Goal of the presented research
  - What is the goal of what is presented.
- Methodology: scientific / technical
- Related work
  - How do others address the same/similar problem
- Method: Design, Implementation and Experiments
- Evaluation

Presenting papers

- Prepare a presentation using the structure of the previous slide
- Present the paper in 20 min followed by a discussion
- All students are expected to read all papers and ask questions during the discussion
- Share your slides afterwards (Kerstin can link them on the webpage)

Papers

- **Seminar 2 - Explanations**
  - Smyth, B., Keane, M.T. (2022). A Few Good Counterfactuals: Generating Interpretable, Plausible and Diverse Counterfactual Explanations. In: Keane, M.T., Wiratunga, N. (eds) Case-Based Reasoning Research and Development. ICCBR 2022. Lecture Notes in Computer Science(), vol 13405. Springer, Cham. https://doi.org/10.1007/978-3-031-14923-8_2
  - Wijekoon, A., Wiratunga, N., Nkisi-Orji, I., Palihawadana, C., Corsar, D., Martin, K. (2022). How Close Is Too Close? The Role of Feature Attributions in Discovering Counterfactual Explanations. In: Keane, M.T., Wiratunga, N. (eds) Case-Based Reasoning Research and Development. ICCBR 2022. Lecture Notes in Computer Science(), vol 13405. Springer, Cham. https://doi.org/10.1007/978-3-031-14923-8_3
- **Seminar 3 - Applications**
  - Chen, C., Li, O., Tao, D., Barnett, A., Rudin, C., & Su, J. K. (2019). This looks like that: deep learning for interpretable image recognition. *Advances in neural information processing systems*, *32*.
  - Eisenstadt, V., Langenhan, C., Althoff, KD., Dengel, A. (2020). Improved and Visually Enhanced Case-Based Retrieval of Room Configurations for Assistance in Architectural Design Education. In: Watson, I., Weber, R. (eds) Case-Based Reasoning Research and Development. ICCBR 2020. Lecture Notes in Computer Science(), vol 12311. Springer, Cham.

Distribution of Papers

Paper	Date	Presenter	Discussion
A Few Good Counterfactuals	Sep 26	Marte	all
How Close is too close	Sep 26	Kristin	all
This looks like that	Oct 3	Thomas	all
Enhanced Case-Based Retrieval of Room Configurations	Oct 3	Mathias	all

Additional Links

- myCBR demo: https://folk.idi.ntnu.no/kerstinb/mycbr/demo-video/
- Slides myCBR: https://folk.idi.ntnu.no/kerstinb/mycbr/demo-slides.pdf
- myCBR rest API:
  - Core: https://github.com/ntnu-ai-lab/mycbr-rest
  - Example: https://github.com/ntnu-ai-lab/mycbr-sample-python