

# Posudek diplomové práce

Matematicko-fyzikální fakulta Univerzity Karlovy

**Autor práce** Bc. Ladislav Maleček  
**Název práce** Fairness in group recommender systems  
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**Studijní program** Informatika      **Studijní obor** Umělá inteligence

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## Text posudku:

The author of the thesis focuses on group recommender systems with a strong emphasis on fairness. After a short introduction, a comprehensive overview of recommender systems and fairness is presented. In the following part, related work methods for group recommendation are detailed. Datasets and their construction are presented in the next section, while the proposed method for group recommendation is explained in Section 6. A comprehensive experimental evaluation is then summarized in Section 7.

The thesis focuses on an interesting novel problem, follows respected evaluation methods in the community and presents non-trivial experimental evaluations providing performance insights. Some methods were already published in cooperation with author's supervisor at respected conferences. It was really interesting to observe performance of all the tested methods in the decoupled evaluation setting and with additional criteria reporting (to some extent) about fairness. The text is readable and well structured. Presented examples help with text understanding. However, it would be good to proofread the text and correct typos (e.g., Table 6.1 LM for c6, page 66 " $\min(0.9, 0.57) = 1.13$ ", or Algorithm 2 line 9 "TOTi"). Nevertheless, the typos were easy to detect from the context and other descriptions.

Questions for the defense:

- 1) Did author check that decoupled evaluation provides reasonable estimates of effectiveness?
- 2) How to extend the method if some group members do not have time to watch the whole list?

**Práci doporučuji k obhajobě.**

**Práci nenavrhuji na zvláštní ocenění.**

*Pokud práci navrhuje na zvláštní ocenění (cena děkana apod.), prosím uveďte zde stručné zdůvodnění (vzniklé publikace, významnost tématu, inovativnost práce apod.).*

**Datum** 24. January 2023

**Podpis**