

Bachelor's Thesis Assignment



153877

Institut: Department of Information Systems (DIFS)

Student: **Turytsia Oleksandr**Programme: Information Technology

Title: The Retail Site Location Decision System in Brno

Category: Information Systems

Academic year: 2023/24

Assignment:

- 1. Study Retail Site Location Decision Process. Analyze current approaches.
- 2. Study GIS and data processing for GIS.
- 3. Analyze available open data of Brno datahub portal. Analyze the problem of Retail Site Location Decision Process in Brno.
- 4. Based on the results of the analysis, design system for Retail Site Location Decision Process in Brno which would recommend suitable areas.
- 5. Implement the designed system.
- 6. Evaluate the implemented solution. Test its usability.

Literature:

- Huff, D. L. (1964). Defining and estimating a trading area. Journal of marketing, 28(3), 34-38.
- Rosenblatt, M. (1956). Remarks on some nonparametric estimates of a density function. *The annals of mathematical statistics*, 832-837.
- Roig-Tierno, N., Baviera-Puig, A., Buitrago-Vera, J., & Mas-Verdu, F. (2013). The retail site location decision process using GIS and the analytical hierarchy process. *Applied Geography*, *40*, 191-198.
- Saaty, T. L. (1988). What is the analytic hierarchy process? (pp. 109-121). Springer Berlin Heidelberg.

Requirements for the semestral defence:

Items 1 to 4.

Detailed formal requirements can be found at https://www.fit.vut.cz/study/theses/

Supervisor: **Hynek Jiří, Ing., Ph.D.**Head of Department: Kolář Dušan, doc. Dr. Ing.

Beginning of work: 1.11.2023 Submission deadline: 16.5.2024 Approval date: 30.10.2023