Department of Computer Graphics and Multimedia (DCGM)

Academic year 2019/2020

## **Bachelor's Thesis Specification**



Student: **Konečný Daniel**Programme: Information Technology

Title: Generating Faces with Generative Adversarial Networks

Category: Artificial Intelligence

Assignment:

- 1. Seznamte se s problematikou GANů
- 2. Získejte vhodnou datovou sadu
- 3. Proved'te implementaci
- 4. Natrénujte několik variant modelů
- 5. Proveď te analýzu rozložení výsledků podmíněnou latentním rozložením

## Recommended literature:

- Goodfellow, I., Pouget-Abadie, J., Mirza, M., Xu, B., Warde-Farley, D., Ozair, S., Courville, A. and Bengio, Y., 2014. Generative adversarial nets. In *Advances in neural information* processing systems (pp. 2672-2680).
- Karras, T., Aila, T., Laine, S. and Lehtinen, J., 2017. Progressive growing of GANs for improved quality, stability, and variation. *arXiv* preprint arXiv:1710.10196.

Requirements for the first semester:

• Body 1 až 3

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

Supervisor: Kolář Martin, M.Sc.
Head of Department: Černocký Jan, doc. Dr. Ing.

Beginning of work: November 1, 2019
Submission deadline: May 28, 2020
Approval date: May 21, 2020