

Foreign activities of doctoral studies

Student: Ing. Petr Bobák

Doctoral Thesis Topic: Algorithms for Automatic Label Placement

Supervisor: doc. Ing. Martin Čadík, Ph.D.


During his doctoral studies, Petr Bobák collaborated on the international project "Deep-Learning Approach to Topographical Image Analysis" (INTER-ACTION VES19IZRAEL / LTAIZ19004) as a researcher. The collaborating foreign research institution was the Faculty of Engineering at Bar Ilan University, Tel Aviv, Izrael, within the research group led by Yosi Keller. This cooperation took place continuously from July 2019 to June 2022.

The results of this collaboration include the following publications:

- BOBÁK, P.; ČMOLÍK, L.; ČADÍK, M. Temporally Stable Boundary Labeling for Interactive and Non-Interactive Dynamic Scenes. *COMPUTERS & GRAPHICS-UK*, 2020, vol. 91, no. 10, p. 265-278. ISSN: 0097-8493.
- BOBÁK, P.; ČMOLÍK, L.; ČADÍK, M. Reinforced Labels: Multi-Agent Deep Reinforcement Learning for Point-Feature Label Placement. *IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS*, 2023, p. 1-14. ISSN: 1077-2626.

As a part of the collaboration, Petr Bobák also visited Bar Ilan University, Tel Aviv, Izrael in November 2019, where he discussed and presented the results of his work.

In Brno, June 25, 2024.



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doc. Ing. Martin Čadík, Ph.D.

Principal Investigator of Deep-Learning Approach to Topographical Image Analysis
INTER-ACTION VES19IZRAEL / LTAIZ19004