Nikita Starodubcev

Personal page: quickjkee.github.io/personal-page
Email: nstarodubtsev@hse.ru
GitHub: github.com/quickjkee
Relevant skills: Python, PyTorch, Docker, Git, Latex, Keras
Research interests: Fast generative models, image editing

PUBLICATIONS

[1] **N. Starodubcev**, D. Baranchuk, A. Fedorov, and A. Babenko, "Your student is better than expected: Adaptive teacher-student collaboration for text-conditional diffusion models", in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, Jun. 2024, pp. 9275–9285.

[2] **N. Starodubcev**, M. Khoroshikh, A. Babenko, and D. Baranchuk, "Invertible consistency distillation for text-guided image editing in around 7 steps", *Advances in Neural Information Processing Systems (NeurIPS)*, vol. 37, 2024.

[3] **N. Starodubcev**, D. Baranchuk, V. Khrulkov, and A. Babenko, "Towards real-time text-driven image manipulation with unconditional diffusion models", *arXiv preprint arXiv:2304.04344*, 2023.

[4] **N. Starodubcev**, N. Nikitin, E. Andronova, K. Gavaza, D. Sidorenko, and A. Kalyuzhnaya, "Generative design of physical objects using modular framework", *Journal of Engineering Applications of Artificial Intelligence, Q1, arXiv:2207.14621*, 2022.

[5] **N. Starodubcev**, N. Nikitin, and A. Kalyuzhnaya, "Surrogate-assisted evolutionary generative design of breakwaters using deep convolutional networks", *IEEE Congress on Evolutionary Computation (IEEE CEC), Oral, arXiv:2204.03400*, 2022.

EXPERIENCE

Yandex Research, *Deep Learning Researcher*   Nov 2022 − now
Working on acceleration of Diffusion Models for applications

AIM Club ITMO, *Deep Learning Researcher*   Dec 2021 − Jun 2023
Creation and development of the open-source framework GEFEST

EDUCATION

HSE University, PhD student, Computer Science   Nov 2023 − now
Supervisor: Artem Babenko

ITMO University, M.S. in Computer Science   Sep 2021 − Jul 2023
Supervisor: Nikolay Nikitin, GPA: 5.0/5.0

Saint Petersburg State University, B.S. in Computational Physics   Sep 2017 − Jul 2021
Supervisor: Evgeny Yarevsky, GPA: 4.8/5.0