







Decision making under uncertainty on GPU



Decision making under uncertainty is exceptionally computationally demanding. Since the robot has to decide online the best action, a typical approach is to approximate the decision-In this project, we will making mechanism. harness the capabilities of the bleeding edge scientific language JULIA alongside NVIDIA CUDA to move computations to GPU. By massive parallelization, we hope to solve the decision making problem precisely.

Prerequisites: Strong programming skills. CUDA preferably.

Main Supervisor: Andrey Zhitnikov (Tel. 0547658690) andreyz@campus.technion.ac.il

Additional supervisor: Dr. Andrej Kitanov

Academic supervisor: Assoc. Prof. Vadim Indelman, vadim.indelman@technion.ac.il

Duration: 1 or 2 semesters