Practical Robopsychology: Samu is Learning the Traffic of the City

Fanny Monori, Norbert Bátfai, Renátó Besenczi, Dávid Kolozsvári, Gergő Bogacsovics, Kristóf Fábián, Péter Jeszenszky, Márton Ispány

University of Debrecen

fannymonori@gmail.com, batfai.norbert@inf.unideb.hu,
besenczi.renato@inf.unideb.hu, freedawson@gmail.com, bgeri74@gmail.com,
f-kristof@hotmail.com, jeszenszky.peter@inf.unideb.hu,
marton.ispany@inf.unideb.hu

Abstract

This paper investigates a possible future of cities where, rather than private vehicles, the traffic is based on robotaxis, which we refer to as raxicabs. Our main goal is to create a raxicab fork of the OOCWC traffic simulation platform. We examine whether it is possible to make our platform learn the traffic of the city with methods based on deep learning. The main purpose of this paper is to integrate the robopsychology research called Samu in the OOCWC traffic simulation platform.

Keywords: traffic simulation, deep learning, robopsychology

MSC: 68T35 Languages and software systems, 68T05 Learning and adaptive systems