Reuth Mirsky

Title: Goal Recognition as RL - Fantastic Goals and Where to Find Them

Abstract: Despite the recent great successes of Reinforcement Learning (RL), it is still used mostly in structured and simulated environments or in highly predictable and static ones. In this talk, I argue that a crucial next step to be taken is not within RL research but rather in integrating RL with other research areas. I will present two recent projects in which RL is used as a tool rather than being the end goal: (1) Using RL to solve goal recognition tasks and (2) Using RL to estimate the progress of a person in acquiring a motor skill.

Bio: Reuth Mirsky is an Assistant Professor at the Computer Science Department at Bar Ilan University and head of the Goal-optimization using Learning and Decision-making (GOLD) lab. She received her PhD in 2019 from Ben Gurion University and was a postdoc at the University of Texas until 2022. In her research, Reuth is interested in the similarities and differences between AI and natural intelligence and how these can be used to extend AI. Reuth is an active member of the AI and HRI research communities and was selected as one of the 2020 Electrical Engineering and Computer Science (EECS) Rising Stars.