Postdoctoral Fellow Position at Carnegie Mellon University

Deep Reinforcement Learning Techniques for Human Robot Teaming Systems

OPEN POSITION: A postdoctoral fellow position at Robotics Institute, CMU

SUPERVISOR:
Prof. Katia Sycara (katia@cs.cmu.edu)
The Robotics Institute, Carnegie Mellon University
Website: http://ri.cmu.edu/ri-faculty/katia-sycara

LOCATION:
The Advanced Agent-Robotics Technology Lab
The Robotics Institute, Carnegie Mellon University
Pittsburgh, Pennsylvania, USA

DESCRIPTION:
The successful candidate will work on Deep Reinforcement Learning algorithms for human agent teams, with agents interacting autonomously or with humans. Start date in early 2021 is desirable but negotiable. The expected duration of the position is one to two years with renewals upon review. In particular the research will involve computational models for making inferences and predictions about the behaviors and activities of human-agent teams so as to (1) perform complementary beneficial actions, and (2) give advice to human and agent team mates to improve overall team performance.

QUALIFICATIONS:
- PhD in a field related to AI/ML in particular reinforcement learning in Robotics, CS or related discipline.
- A strong theoretical background in Machine Learning, multi robot decision making, and decision-making under uncertainty.
- Programming skills including experiences using C++, Python, and/or MATLAB, Neural Network frameworks, eg pytorch
- Ability to present work clearly both written and orally
- Experiences with deep learning mandatory, experience with ROS desired.

APPLICATION DETAILS:
Applicants should provide the following material via email to Prof. Katia Sycara (katia@cs.cmu.edu). Please use the subject line: “Postdoc application”. Applications will be reviewed as they are received.
- A curriculum vitae
- A statement of research expertise and interests (up to 2 pages)
- Up to 3 publications
- Names and contact information of three references
- Dates of availability
- A personal website, if available, where further details can be found

DUTIES AND RESPONSIBILITIES

The postdoc will (a) carry out high quality research and publish the research results, (b) assist in research supervision and guidance of graduate and undergraduate students, (c) present research results to sponsors, (d) participate in research proposal preparation.