Hai Nguyen

Northeastern University
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EDUCATION

Northeastern University (NEU), USA   2019 - Present
Doctor of Philosophy in COMPUTER SCIENCE
Supervisors: Prof. Robert Platt, Prof. Christopher Amato
University of Southampton (UoS), UK   2016-2017
Master of Science in UNMANNED AIRCRAFT SYSTEMS DESIGN
Hanoi University of Science and Technology (HUST), Vietnam   2007-2012
Bachelor of Science in CONTROL AND AUTOMATION ENGINEERING

WORK EXPERIENCES

Embedded Software Engineer, Viettel Aerospace Institute, Vietnam   2012-2016 & 2017-2018

RESEARCH INTERESTS

My research focuses on uncertainty modeling, reinforcement learning, and their applications to robot manipulation. I aim to build compact and robust models of the world to decision making under partial observability.

PUBLICATIONS

Zhihan Yang*, **Hai Nguyen***. "Recurrent Off-policy Baselines for Memory-based Continuous Control", *NeurIPS: Deep Reinforcement Learning Workshop, 2021*

Hai Nguyen*, Brett Daley*, Xinchao Song, Christopher Amato, Robert Platt. "Belief-Grounded Networks for Accelerated Robot Learning under Partial Observability", *The 4th Conference on Robot Learning (CoRL), 2020*

Hai Nguyen, Xinchao Song, Christopher Amato, Robert Platt. "Imitation Learning in POMDPs with Contacts", *Robotics: Science and Systems (RSS): Reacting to Contact Workshop, 2020*

Hai Nguyen, Hung La. "Review of deep reinforcement learning for robot manipulation", *The 3rd IEEE International Conference on Robotic Computing (IRC), 2019*

Adarsh Sehgal, Hung La, Sushil Louis, **Hai Nguyen**. "Hindsight Experience Replay With Experience Ranking", *Joint IEEE 9th International Conference on Development and Learning and Epigenetic Robotics (ICDL-EpiRob), 2019*

Hai Nguyen, Hung La. "Deep reinforcement learning using genetic algorithm for parameter optimization", *The 3rd IEEE International Conference on Robotic Computing (IRC), 2019*

AWARDS

Chevening Scholarship, British Foreign and Commonwealth Office (2% acceptance rate)   2016
IMechE UAS 2016 Challenge - Runner-up   2017
IMechE UAS 2016 Challenge - Navigation Accuracy Award   2017
Graduate Dean's Merit Scholarship, University of Nevada, Reno ($10,000)   2018
Travel & Acommendation Scholarship, Southeast Asia Machine Learning School (SEAML)   2019

PROFESSIONAL ACTIVITIES

Reviewer

- Conferences: ICRA (2021)
- Journals: RA-L (2022)