Hai Nguyen

Ph.D. Student
Robotics & Reinforcement Learning
Northeastern University, Boston, MA
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Research

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.

Education

Ph.D. Computer Science, Northeastern University, USA	2019–
M.S. Unmanned Aircraft System Design, University of Southampton, UK	2016-2017
B.A. Automatic Control, Hanoi University of Science and Technology, Vietnam	2007–2012

Work Experience

Embedded Software Engineer Viettel Aerospace Institute, Vietnam	2012-2018

Awards

Chevening Scholarship (2% acceptance rate)	2016
IMechE UAS Challenge - Runner-up	2017
Graduate Dean's Merit Scholarship, University of Nevada, Reno ($10,000)	2018

Publications

1. **H. Nguyen**, B. Daley, X. Song, C. Amato, and R. Platt. Belief-grounded networks for accelerated robot learning under partial observability. 2020.

2. **H. Nguyen**, X. Song, C. Amato, and R. Platt. Imitation learning in pomdps with contacts. In *Robotics: Science and Systems (RSS): Reacting to Contact Workshop*, 2020.

3. **H. Nguyen** and H. La. Review of deep reinforcement learning for robot manipulation. In *2019 Third IEEE International Conference on Robotic Computing (IRC)*, pages 590–595. IEEE, 2019.

4. **H. Nguyen**, H. M. La, and M. Deans. Hindsight experience replay with experience ranking. In *2019 Joint IEEE 9th International Conference on Development and Learning and Epigenetic Robotics (ICDL-EpiRob)*, pages 1–6. IEEE, 2019.