YAQI XIE

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RESEARCH INTEREST

Thesis Title: Enhancing Deep Learning with Symbolic Domain Knowledge
Keywords: Knowledge Representation, Graph Neural Network, Inverse Reinforcement Learning, Robotics, Human Robot Interaction, Computer Vision

EDUCATION

National University of Singapore (NUS)   Aug. 2017 - Present
Ph.D. Candidate in Computer Science   *Advisor: Dr. Harold SOH*

- GPA: 4.92/5
- Research Achievement Award winner

Singapore Univeristy of Technology and Design (SUTD)   May. 2014 - Aug. 2017
Bachelor of Engineering in Engineering Systems and Design
Summa cum laude (highest distinction)   *Advisor: Dr. Wei LU*

- GPA: 4.92/5
- Focus track: Business (Data) Analysis
- Class rank: Top 2 in the major, Top 1 in the focus track

Massachusetts Institute of Technology (MIT)   Dec. 2016 - Jan. 2017
Visiting Student

PUBLICATIONS

CONFERENCE

4. [**ICRA'21**] Xie Yaqi, Zhou Fan, and Harold Soh. "Embedding Symbolic Temporal Knowledge into Deep Sequential Models." *International Conference on Robotics and Automation (ICRA)*, 2021.[pdf]

3. [**NeurIPS'19**] Xie Yaqi, Xu Ziwei, Kuldeep S. Meel, Mohan S. Kankanhalli, and Harold Soh. "Embedding Symbolic Knowledge into Deep Networks." *Neural Information Processing Systems (NeurIPS)*, 2019. [pdf]

2. [**HRI'19**] Xie Yaqi, Indu Prasad, Desmond Ong, David Hsu and Harold Soh. "Robot Capability and Intention in Trust-based Decisions across Tasks." *ACM/IEEE Conference on Human Robot Interaction (HRI)*, 2019. [pdf]

JOURNAL

1. [**IJRR'19**] Harold Soh, Yaqi Xie, Min Chen, and David Hsu. "Multi-Task Trust Transfer for Human Robot Interaction." *International Journal of Robotics Research (IJRR)*, 2019. [pdf]

HONORS AND AWARDS

- NUS School of Computing, Research Achievement Award, 2020

- 2nd Price at IEEE NTU hackathon at iNTUition, *2017*

- Keppel Award of Excellence, *2017*

- Teralytics Business Analytics Award, *2017*

- Winner of IES Gold Medal, 2017

- SUTD Honors List, *2014-2017*

INDUSTRIAL EXPERIENCES

J.P. Morgan   May. 2016 - Jul. 2016
Technology Intern

- Developed a web application to track server order and build process and calculate expected delivery time with a team of 4 using bootstrap, JavaScript, Spring MVC, Rest service and Hibernate.

Citibank   May. 2015 - Jul. 2015
Operations Intern

- Developed and tested Excel VBA Marcos to reformat messages to automatically generate reports, and liaised with internal stakeholders to improve SWIFT messages process workflow.

ACADEMIC SERVICES

- NUS Computing Research Week August 2020 Chair
- NUS Computing Research Week August 2021 Chair
- AMMAS 2020 Conference sub-reviewer
- AAAI 2019 Conference Reviewer
- Teaching Assistant for CS5340 Uncertainty Modeling in Artificial Intelligence, *Semester 1, 2 Year 18/19; Semester 1 Year 19/20*
- Teaching Assistant for CS5242 Neural Network and Deep Learning, *Semester 2 Year 17/18*