MENGDI LI

Research Associate at University of Hamburg li_mengdi@hotmail.com

https://mengdi-li.github.io/

RESEARCH INTERESTS

Fields: Machine Learning, Robotics

Topics: Reinforcement Learning, Large Language Models, Embodied Agents

EDUCATION

University of Hamburg
Ph.D. in Artificial Intelligence
China Agricultural University
M.S. in Computer Science
China Agricultural University
B.E. in Electronic Engineer

Oct 2019 - Present
Advisor: Prof. Stefan Wermter
Sep 2016 - July 2019
Advisor: Prof. Yiming Xue
Sep 2012 - July 2016
Advisor: Prof. Yiming Xue

WORK EXPERIENCE

Knowledge Technology, University of Hamburg

Oct 2019 - Present

Research Associate

AWARDS & HONORS

Outstanding Undergraduate Thesis of China Agricultural University (Top 3%)

2016

PUBLICATIONS

Enhancing Zero-Shot Chain-of-Thought Reasoning in Large Language Models through Logic Xufeng Zhao, **Mengdi Li**, Wenhao Lu, Cornelius Weber, Jae Hee Lee, Kun Chu, Stefan Wermter arXiv preprint, 2023

Chat with the Environment: Interactive Multimodal Perception using Large Language Models Xufeng Zhao, **Mengdi Li**, Cornelius Weber, Burhan Hafez, Stefan Wermter International Conference on Intelligent Robots and Systems (IROS), 2023

Internally Rewarded Reinforcement Learning

Mengdi Li, Xufeng Zhao, Jae Hee Lee, Cornelius Weber, Stefan Wermter International Conference on Machine Learning (ICML), 2023

Visually Grounded Commonsense Knowledge Acquisition

Yuan Yao, Tianyu Yu, Ao Zhang, **Mengdi Li**, Ruobing Xie, Cornelius Weber, Zhiyuan Liu, Hai-Tao Zheng, Stefan Wermter, Tat-Seng Chua, Maosong Sun

The AAAI Conference on Artificial Intelligence (AAAI), 2022

Learning Visually Grounded Human-Robot Dialog in a Hybrid Neural Architecture Xiaowen Sun, Cornelius Weber, Matthias Kerzel, Tom Weber, **Mengdi Li**, Stefan Wermter International Conference on Artificial Neural Networks (ICANN), 2022

Spatial Relation Learning in Complementary Scenarios with Deep Neural Networks Jae Hee Lee, Yuan Yao, Ozan Özdemir, **Mengdi Li**, Cornelius Weber, Zhiyuan Liu, Stefan Wermter Frontiers in Neurorobotics, 2022

Robotic Occlusion Reasoning for Efficient Object Existence Prediction

Mengdi Li, Cornelius Weber, Matthias Kerzel, Jae Hee Lee, Zheni Zeng, Zhiyuan Liu, Stefan Wermter International Conference on Intelligent Robots and Systems (IROS), 2021

Visual Distant Supervision for Scene Graph Generation

Yuan Yao, Ao Zhang, Xu Han, **Mengdi Li**, Cornelius Weber, Zhiyuan Liu, Stefan Wermter, Maosong Sun

International Conference on Computer Vision (ICCV), 2021

Modern Imaging Techniques in Plant Nutrition Analysis: A Review Daoliang Li, Cheng Li, Yuan Yao, **Mengdi Li**, Licheng Liu Computers and Electronics in Agriculture, 2020

Neural Networks for Detecting Irrelevant Questions During Visual Question Answering Mengdi Li, Cornelius Weber, Stefan Wermter International Conference on Artificial Neural Networks (ICANN), 2020

A Novel Natural Language Steganographic Framework based on Image Description Neural Network Juan Wen, Xuejing Zhou, **Mengdi Li**, Ping Zhong, Yiming Xue Journal of Visual Communication and Image Representation, 2019

Generating Steganographic Image Description by Dynamic Synonym Substitution **Mengdi Li**, Kai Mu, Ping Zhong, Juan Wen, Yiming Xue Signal Processing, 2019

Image Steganalysis in High-dimensional Feature Spaces with Proximal Support Vector Machine Ping Zhong, **Mengdi Li**, Kai Mu, Juan Wen, Yiming Xue International Journal of Digital Crime and Forensics (IJDCF), 2019