Linsen Dong

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EDUCATION

Bachelor of Engineering in Measurement and control technology and instrumentation 09/2014 06/2018(expected)
School of Automation and Engineering, University of Electronic Science and Technology of China(UESTC), Sichuan, China
GPA: 3.44 /4.0

RESEARCH INTERESTS

- Deep Reinforcement Learning
- Autonomous System and its Application

PROJECT AND RESEARCH EXPERIENCES

Mars (Multi-Agent and Robotic System Lab of UESTC) 08/2015 07/2017

1. Mobility Load Balancing Algorithm in Basestation based on LSTM
   - Built a LSTM(Long-Short Term Memory) network to predict users' moving policy under some certain scenarios (subway station, office building, etc.)
   - Achieved 90% accuracy for predicting basestation that users will connect to next and firstly incorporated Deep Learning to solve the basestation control problem
   - Project website: https://github.com/Lukeeeeee/MLB-LSTM
2. Multi-Agent Control System based on DDPG and Fuzzy Logic Control System
   - Built a novel platform that implement DDPG (Deep Deterministic Policy Gradient) controller and fuzzy logic rule controller based on Tensorflow
   - Firstly incorporated human knowledge to DDPG by using fuzzy logic rule system
   - Project website: https://github.com/Lukeeeeee/DRLFramework
3. Multi-UAV Path Planning System based on Colony Algorithm
   - Built a distributed multi-UAV path planning system
   - Inspired by the concept "pheromone" in swarm intelligence and invented a method to computed the pheromone between every agent

MII (Machine Intelligence Institute of UESTC) 07/2017 present

1. An End to End Autonomous Driving System based on LSTM
   - Built an end-to-end autonomous driving control system based on torcs game using camera's temporal image data as input, controlled the car's wheel, brake, etc.
   - Firstly used temporal data and built a RNN(Recurrent Neural Network) model to solve automation driving problem
   - Project website: https://github.com/Lukeeeeee/AlphaDriver

DCML (Distributed and Mobile Computing Lab of UESTC) **06/2017 09/2017**

1. A Multi-Discriminator Generative Adversarial Networks (GAN)
   - Built a multi-D GAN model using multi-dataset to generate a mixture of different styles and features
   - Firstly applied GAN to multi-dataset and multi-discriminator
   - Project website: https://github.com/Lukeeeeee/DC-GAN

SysLab (A Web Development Studio of UESTC) **12/2014 10/2015**

1. A website project for Journal of UESTC
   - Implemented the website back-end using PHP with Model-View-Controller(MVC) design pattern and database management using MySQL
   - As project leader, coordinated the development task within group and scheduled the progress of the project

AWARDS AND HONORS

1. **Bronze Medal The ACM-ICPC Asia Regional Contest Xi'an Site 2014**
   - Rank 36/505
2. **First Prize in High Performance Computing Competition of UESTC hosted by NVIDIA and OMNISKY 2016**
   - Built a novel parallel CCL (Connected-component labeling) algorithm based on CUDA platform running at NVIDIA graphic card using C++
   - Achieved 5x speed up comparing to normal CPU algorithm
   - Project website: https://github.com/Lukeeeeee/CCL

SKILLS

- Programming Language: C, C++, Python
- Tools and Platform: Tensorflow, CUDA, Caffe, MATLAB
- Standardized Test of English:
  - TOEFL 101(Reading 28, Listening 27, Speaking 24, Writing 22)
  - GRE 324(Verbal 154, Quantitative 170) + AW 3.0