Yufeng Chen

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West Campus of USTC, Hefei, Anhui, 230027, P.R. China

EDUCATION

University of Science and Technology of China 09/2011- xxx
Bachelor in Electronic Engineering and Information Science Hefei

- Overall GPA: 3.86/4.3 (89.84/100) Rank: xx/xx
- Core Courses: EE: Electromagnetic Field and Wave (95/100), Computer Networks (94/100) CS&Math: Data Structure and Algorithm (97/100) Probability and Statistics (94/100)

PROJECT EXPERIENCE

Multi-domain Testbed Experiment Based on DeepRMSA 06/2020- 10/2020
Summer intern research UC Davis
Next Generation Network and System Group

- Leveraged deep reinforcement learning (DRL) to solve routing, modulation and spectrum assignment (RMSA) in elastic optical networks in a hierarchical scheme (2 domains, each has 14 nodes)
- Built an application with DRL agents on ONOS platform (provides the control plane for a software-defined network)
- Compared with k-shortest path algorithm in multi-domain situation, my design has xxxxx
- Source code & docs: https://github.com/wutherfc/Multi-DeepRMSA

Remote Direct Memory Access (RDMA) Optimization on MongoDB 06/2018- 11/2018
Undergraduate research & team competition USTC
Advanced Computer System Architecture Lab

- Leveraged RDMA to replace TCP/IP communication module in MongoDB (a NoSQL database) to reduce latency among cluster severs and clients
- Compared with traditional TCP/IP design, our final RDMA-based version obtains 3.58X/6.16X at peak Put/Get operations speed-up on ordinary data size
- Won the first place in the Inaugural 2018 The sixth Student RDMA Programming Competition organized by HPC AI
- Responsible for building the working environment (distributed system) on the Sugon computer cluster and benchmarking

Design and Implementation of an Intelligent Air Hockey Robot 03/2019- 06/2019
Course work USTC

- Designed an air hockey robot that is able to combat with a human player
- Implemented with extensive microprocessor programming using Python and basic computer vision technologies provided by OpenCV, for example, dilation and contour finding
- Source code & demonstration: xxx

AWARDS

- Outstanding Student Scholarship Grade 2 2019
- Electronic Design Contest in School of Information Grade 2 2019
- First Place in the Inaugural 2018 The sixth Student RDMA Programming Competition 2018
- Outstanding Student Scholarship Grade 1 2018
- Outstanding Freshman Scholarship Grade 3 2017

SKILLS

- Programming languages: C&C++, Python, Java
- Software: MATLAB, Git
- OS: Linux