Yuanwen Tian

yuanwentian@hust.edu.cn

Current Position

Center for Vision, Cognition, Learning and Autonomy (VCLA), UCLA　　　*Jul 2018 – Jul 2019*
Undergraduate Research Assistant

Education

Huazhong University of Science and Technology (HUST)　　　*Expected: Jun 2019*
B.E., Electrical Engineering and Automation
Overall Score: **92.76/100**　Rank: **5/360**

University of California, Los Angeles (UCLA)　　　*Jul 2018 – Sept 2018*
UCLA-CSST Research Program
Overall Score: **A+**

Tests

- GRE General Test　**331** (V 161 Q 170 AW 4)　　　*Jul 2017*
- TOFEL iBT　　　**105** (R 30 L 30 S 20 W 25)　　　*Mar 2018*

Publications (Journal Papers)

Y. Miao, **Yuanwen Tian**, L. Peng, M. S. Hossain, G. Mohammad, "Research and Implementation of ECGbased Biological Recognition Parallelization", *IEEE Access*, vol. 6, pp. 4759–4766, 2017. DOI: 10.1109/ACCESS.2017.2771220.

M. Chen, **Yuanwen Tian**, G. Fortino, J. Zhang, I. Humar, "Cognitive Internet of Vehicles", *Computer Communications*, vol. 120, pp. 5870, 2018. DOI: 10.1016/j.comcom.2018.02.006.

Y. Miao, **Yuanwen Tian**, J. Cheng, M. S. Hossain, A. Ghoneim, "RADB: Random Access with Differentiated Barring for Latency Constrained Applications in NBIoT Network", *Wireless Communications and Mobile Computing*, 2018. DOI: 10.1155/2018/6210408.

Yuanwen Tian, J. Yang, J. Lu, C. Han, Z. Wei, "Cognitive Vehicular Ad Hoc Networks", *IEEE MMTC Communications Frontiers*, vol. 12, no. 2, pp. 3740, March 2018.

Y. Qian, **Yuanwen Tian**, et al., "Towards Decentralized IoT Security Enhancement: A Blockchain Approach", *Computers and Electrical Engineering*, accepted on July 5, 2018.

Publications (Conference Papers)

W. Li, J. Lu, Y. Xu, Z. Wei, **Yuanwen Tian**, Y. Miao, "Wireless Cooperative Caching in Device to Device Networks: Simulation and Modeling", *12th EAI International Conference on Testbeds and Research Infrastructures for the Development of Networks & Communities* (TRIDENTCOM 2017), 2017. **(Best Student Paper Award)** DOI: 10.4108/eai.2892017.2273362.

J. Yang, Y. Miao, C. Han, **Yuanwen Tian**, X. You, Y. Jiang, "OPPOCO: From Ad Hoc Cloudletassisted Edge Computation to Opportunistic Computation Offoading", 12th EAI International Conference on Testbeds and Research Infrastructures for the Development of Networks & Communities (TRIDENTCOM 2017), 2017. DOI: 10.4108/eai.2892017.2273365.

Research Experience

Center for Vision, Cognition, Learning and Autonomy (VCLA), UCLA   *Jul 2018 – present*
Research Assistant
Advisor: Professor Tao Gao

Project 1: Model-Based trajectory planning through generic nonlinear programming
- Participated in building trajectory optimization library using CMake and C++ through generic nonlinear programming
- Implemented robotic motion planning with constraints using MuJoCo (Multi-Joint dynamics with Contact) physics engine and IPOPT (Interior Point OPTimizer) solver
- Evaluated our trajectory library on two task scenarios (random-target and collision-free) and three models (inverted pendulum, inverted double pendulum and cart pole)

Embedded and Pervasive Computing Lab (EPIC), HUST   *Nov 2016 – Jun 2018*
Research Assistant
Advisor: Professor Min Chen

Project 1: Emotion communication and affective computing
- Implemented experiments on ECG based biological recognition parallelization
- Participated in designing AIWAC Robot (Affective Interaction through Wide-Learning And Cognitive Computing) based on emotion communication

Project 2: Data driven computing and caching in 5G networks
- Study on computation offloading and caching optimization
- Evaluated edge cognitive computing platform for Internet of Things applications

Awards and Scholarship

National-level
- China National Scholarship, awarded by Ministry of Education of China & Ministry   *Oct 2016*
  of Finance of China (The highest level of academic scholarship in my country)

University-level
- Technology Innovation Award, Huazhong University of Science and Technology   *Sept 2018*
- Academic Excellent Scholarship, Huazhong University of Science and Technology   *Sept 2018*
- UCLA-CSST Scholarship, University of California, Los Angeles   *Jul 2018*
- Si Yuan EE Scholarship, Huazhong University of Science and Technology   *Apr 2018*
- Merit-Student Scholarship, Huazhong University of Science and Technology   *Oct 2017*
- Best Student Paper Award for TRIDENTCOM 2017   *Sept 2017*
- Outstanding Undergraduates (top 1%), Huazhong University of Science and   *Dec 2016*
  Technology
- Merit-Student Scholarship, Huazhong University of Science and Technology   *Oct 2016*
- Si Yuan EE Scholarship, Huazhong University of Science and Technology   *Apr 2016*