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)

B.E., Electrical Engineering and Automation

Overall Score: 92.8/100 Class Rank: 1/28 School Rank: 5/354

University of California, Los Angeles (UCLA)

UCLA-CSST Research Program

Overall Score: A+

Jul 2018 - Sept 2018

Expected: Jun 2019

Tests

GRE General Test 331 (V 161 Q 170 AW 4)
 TOFEL iBT 106 (R 30 L 28 S 22 W 26)
 Jul 2017
 Oct 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. <u>DOI:</u> 10.1109/ACCESS.2017.2771220.

M. Chen, **Yuanwen Tian**, G. Fortino, J. Zhang, I. Humar, "Cognitive Internet of Vehicles", *Computer Communications*, vol. 120, pp. 58-70, 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. <u>DOI: 10.1155/2018/6210408</u>.

Yuanwen Tian, J. Yang, J. Lu, C. Han, Z. Wei, "Cognitive Vehicular Ad Hoc Networks", *IEEE MMTC Communications Frontiers*, vol. 12, no. 2, pp. 37-40, March 2018.

Y. Qian, **Yuanwen Tian**, et al., "Towards Decentralized IoT Security Enhancement: A Blockchain Approach", *Computers and Electrical Engineering*, vol. 72, pp. 266-273, 2018.

DOI: 10.1016/j.compeleceng.2018.08.021.

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++
- 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 – present

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

International-level

Best Student Paper Award for TRIDENTCOM 2017

Sept 2017

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

	J	
•	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
•	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