Yuanwen Tian

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Education

Huazhong University of Science and Technology, Wuhan, China *Expected: Jun 2019*
B.E., Electrical Engineering and Automation
Overall Score: **92.76/100** Rank: **3/154**

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*

Papers

Y. Miao, **Yuanwen Tian**, L. Peng, M. S. Hossain, G. Mohammad, "Research and Implementation of ECG-based Biological Recognition Parallelization", *IEEE Access*, 2017.

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

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

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*, accepted on July 5, 2018.

Research Experience

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

Project: 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

UCLA-CSST Scholarship, University of California, Los Angeles	*Jul 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 Technology	*Dec 2016*
China National Scholarship (The highest level of academic scholarship in my country)	*Oct 2016*
Merit-Student Scholarship, Huazhong University of Science and Technology	*Oct 2016*
Si Yuan EE Scholarship, Huazhong University of Science and Technology	*Apr 2016*