

## Curriculum Vitae

**Dr. Zhe XUANYUAN**

**Title and Position: Associate Professor, Programme Director of Data Science, Beijing Normal University - Hong Kong Baptist University United International College (UIC)**

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### Education

2007-2012	Ph.D. in Electronic and Computer Engineering, The Hong Kong University of Science and Technology
2005-2007	Master student. Department of Electronic Engineering and Computer Science, Peking University, Beijing, China
2001-2005	B.Eng. Department of Electronic Engineering, Peking University, Beijing, China
2003-2005	B.Eng. Department of Mathematics (Minor degree), Peking University, Beijing, China

### Work Experience

2018.9 – now	Associate Professor, Programme Director, Programme of Data Science, United International College
2017.9 – 2018.8	Assistant Professor, Programme Director, Programme of Data Science, United International College
2016.9 – 2017.8	Assistant Professor, Programme of Computer Science and technology, United International College
2015.1 – 2016.8	Assistant Professor, Department of Data Science and Computer, Sun Yat-sen university.
2013.10-2014.12	Vice President of engineering, Zhuhai Yunzhou Intelligent Co.
2012.10-2013.9	Research engineer, Huawei Technology Co. Ltd.

### Research Interest

- Connected intelligent vehicles

- Cloud computing and big data analytics

#### Research Grant

1. **PI**, "Routing robustness optimisation in communication networks under uncertain traffic demands", **Natural science foundation of China**, 61501528, 2016/01-2018/12, 250,000.
2. **PI**, "Hybrid traffic engineering in dynamic demands", Research fund for young scholars in Sun Yat-sen university, 67000-31610007 2016/01-2018/12, 150,000.
3. **PI**, "Intelligent connected vehicle: key technology and system implementation", UIC research fund, R201708, 2017-2019 200,000.
4. **Co-PI**, "Applying Big Data and Data Analytics in Market Risk Measurement", UIC Research Grant, 2018-2020, 300,000.

#### Selected Publications

1. Yachen Zhang, Long Chen, **Zhe Xuanyuan** and Wei Tian, "3D Cooperative Mapping for Connected and Automated Vehicles", accepted by IEEE Transactions on Industrial Electronics, 2019
2. **Zhe Xuanyuan**, Boyang Li, Xinyi Zhang, Long Chen, Kai Huang, "Online Cooperative 3D Mapping for Autonomous Driving", 2018 *IEEE Intelligent Vehicles Symposium (IV'18)*, June 26-30, 2018 **Best Workshop Paper Award**
3. Jianfeng Gu, Yuehui Wang, Long Chen, Zhihao Zhao, **Zhe Xuanyuan**, Kai Huang, "A Reliable Road Segmentation and Edge Extraction for Sparse 3D Lidar Data", *2018 IEEE Intelligent Vehicles Symposium (IV'18)*, June 26-30, 2018
4. Chen, L., Sun, L., Yang, T., Fan, L., Huang, K., **Zhe Xuanyuan**, "RGB-T SLAM: A Flexible SLAM Framework By Combining Appearance and Thermal Information". *IEEE International Conference on Robotics and Automation, ICRA*, May 29 - June 3, 2017
5. Long Chen, Mingyue Cui, Kai Huang, **Zhe Xuanyuan**, "Real-time Scene Flow on COTS Embedded Systems by Coarse-Grained Software Pipeline", *IEEE Intelligent Vehicles Symposium (IV'17)*, June 11-14, 2017
6. Chen, Weiwei, Chin-Tau A. Lea, Shiming He, and **Zhe Xuanyuan**. "Opportunistic Routing and Scheduling for Wireless Networks." *IEEE Trans. Wireless Communications* 16, no. 1 (2017): 320-331.
7. **Yuanzhe Xuan**, and Chin-Tau Lea. "Discrete-bandwidth nonblocking networks." *IEEE Transactions on Communications* 61, no. 10 (2013): 4334-4342.
8. **Yuanzhe Xuan** and Chin-Tau Lea, "Network-coding multicast networks with

- QoS guarantees." *IEEE/ACM Transactions on Networking (TON)* 19, no. 1 (2011): 265-274.
9. **Yuanzhe Xuan** and Chin-Tau Lea, "Oblivious routing and QoS guarantee in wireless mesh networks." In *High Performance Switching and Routing (HPSR), 2010 International Conference on*, pp. 94-99. IEEE, 2010
  10. **Yuanzhe Xuan** and Zhefeng Yan, "Enhancing Routing Efficiency in Named Data Network with Piggybacked Interest", in *proceedings of ACM, Conference on Future Internet architecture*, 2013

#### **Patent Registered**

1. Boyang Li, **Yuanzhe Xuan**, Kai Huang, et.al. "A high reliability intelligent electric vehicle control platform based on embedded systems", Publication data: 2017.11.21, Appl. No 201710583056.8
2. **Yuanzhe Xuan** and Zhefeng Yan , "Packet processing method and device", Publication date:2015-12-24, , US14839187
3. **Yuanzhe Xuan** and Zhefeng Yan, "A Method of Packet Transmission in Content Centric Networks", filed in Feb, 2013, Appl. No. 201310084254.1
4. **Yuanzhe Xuan** and Zhefeng Yan, "A Naming and Resolution System for Content Centric Networks", filed in July, 2013, Appl. No.201310318048.2
5. **Yuanzhe Xuan** and Zhefeng Yan, "A Method, Apparatus and System for Routing Named Data", filed in October, 2013, Appl. No. 201380001584.8
6. Xinyi Zhang and **Yuanzhe Xuan**, "Cooperative Lidar scan mapping and navigation", filed in Mar. 2018.

#### **Professional Award**

Best special session/Workshop Paper Award in 29<sup>th</sup> IEEE intelligent vehicle symposium (IV2018 )