

TRACK 2: UAV / AERODYNAMICS**“SMART DRONE EVOLUTION: THE BRIGHT FUTURE OF THE FLYING ROBOTS”**

BY
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ABSTRACT

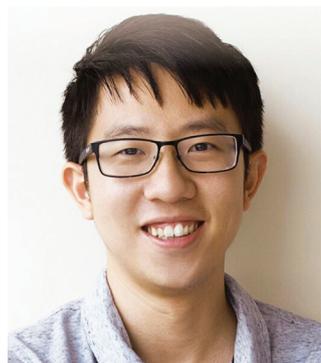
Robotic and computer power have evolved tremendously in the last decade, resulting in numerous and different kinds of smart devices appearing in our daily lives. Amidst this context, we are seeking to empower robots to evolve more and benefit more people. Hence, we target drones - the flying robots, given its growing market and the various scenarios it could be used for in industries. The main challenge here is quality and stable communications across devices.

Our vision and approach is to tremendously enhance drones' data collecting processes by offering a qualitative software and network, to allow multi-people and multi-devices co-operations, as well as the powerful self-organised network, and then integrate cloud computing, computer vision, deep learning with drones. By doing this, we will be empowering drones to intelligently execute missions in complex industrial scenarios.

During this process, we found and learnt various applications of leading smart drones in both China and the United States, as well as the important roles they will play in the commercial and public service fields. We believe that combining smart devices, hardware with powerful software, is the trend happening worldwide which will benefit generations of people.

BIOGRAPHY OF SPEAKERS

Chen Junyu is the CEO and Co-Founder of Kiwi Information Technology Co., Ltd. He founded the company with Li Bingjun (Cash Lee) in Guangzhou, China, in 2014. Kiwi Information Technology has been focusing on drone-based software systems since 2015 and has published Mesh, a multi-platform application, in 2017. It grants commercial drone clients the ability to use drones with great features such as multi-controlling, automatic flying, data collecting, cloud computing and self-organising networks with other smart devices. The software systems were opened for the world's leading drone manufacturer, DJI, and Kiwi is now partnering with many leading enterprises in China, such as China Southern Power Grid, Vanke, Sinopec Group, et cetera.



Liu Zhexuan is the Co-Founder of Kiwi Information Technology Co., Ltd. He graduated from the University of Wisconsin, Madison, with a Bachelor degree in Computer Science & Computer Engineering. He then specialised in Machine Learning and Computational Perception & Robotics in a Master degree programme offered by Georgia Institute of Technology. He has been working in Microsoft Corporation Cloud & Enterprise Department for two years, and participated in the product development for Microsoft Dynamics. He has also hosted offline meetings and drone salons for developers, to share information on software development in the drone industries.