

BioSym Seminar Series 2018

3D Sensing - Eyes of Artificial Intelligence

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Date : 9th Nov 2018, Friday

Time : 11 am to 12 noon

Venue : Level 5, Perseverance Room



Abstract

Artificial Intelligence requires both hardware and algorithms for machines to sense, understand and interact with the outside world. 3D sensing technology is an interdisciplinary technology which combines optical metrology, optical design, computer vision, IC design to provide machines a realistic 3D vision capability. 3D sensing technology provides rich data for AI applications to process. In this seminar, we will introduce real-life applications of 3D sensing technology in different fields. We will also give a brief introduction on how this technology is transferred to high commercial values and generates high interest from the venture capital market.

Short Biography

Dr. Chen Zhi received his bachelor degree from the National University of Singapore. After graduation, he served as a research engineer in SMART BioSym & CENSAM IRG. He continued his Ph.D. study in SMART with Prof. George Barbasthathis. His research works focus on 3D microscopic imaging, volume holographic imaging systems, and underwater digital holographic imaging systems. Dr. Chen now holds the vice president position in Orbbec Co. Ltd. This company is a start-up company founded by SMART CENSAM IRG alumni Dr. Howard Huang Yuanhao. Orbbec provided the first 3D camera module in mass production stage for the Android smartphone market in the world. The company's recent valuation has reached over a billion USD and has become a smart hardware "Unicorn" company.