

Keynote: Smart City: Its Building, Construction and Maintenance

Synopsis: Singapore launched its Smart Nation Initiative in 24 Nov 2014. In this talk I will look into Smart City from the angle of building, construction and maintenance. In particular, I will present my project on Smart Hoisting in collaboration with Singapore's Housing Development Board (HDB), my project on Intelligent Building Imaging under Surbana Jurong Corp Lab @ Nanyang Technological University; and my project on Virtual Singapore.

Bio:

Professor Yiyu Cai directs the Digitization Cluster with The Energy Research Institute @ NTU. At NTU, he also heads the Computer-aided Engineering Labs and the Strategic Research Program of VR and Soft Computing. He is deputy director of NTU's Center of Augmented and Virtual Reality.

Professor Cai has been doing interdisciplinary research in Artificial Intelligence, Virtual & Augmented Reality, Robotics, Simulation & Serious Games, and their applications in Engineering, Medicine and Education. His research has been supported by Singapore's National Research Foundation, Temasek Trust Funded Singapore Millennium Foundation, Ministry of Education and other public or private sectors with over \$20M for projects. In addition to 6 international patents granted, he has near 200 technical articles published in international journals and conferences. Also, he has organised about 20 international conferences and has given over 60 keynote or invited speeches in more than 10 countries including Japan, France, The Netherlands, China, etc.

