



LSGI Distinguished Lecture Series

“GNSS for Atmosphere, Weather and Climate – A New Frontier of Geospatial Innovation ”

Overview

It was our pleasure to invite Prof. Kefei ZHANG, SPACE Research Centre, RMIT University, Australia, to deliver a seminar of the LSGI Distinguished Lecture Series on 14 December 2017.



Biography

Professor Kefei Zhang is the founder and director of the Satellite Positioning for Atmosphere, Climate and Environment (SPACE) Research Centre at RMIT University. He has over 30 years research experience in satellite positioning and geospatial sciences. His current research interest is primarily in algorithm development and innovative applications of satellite technologies for high-accuracy positioning, atmospheric studies, space situational awareness (e.g. space debris tracking, surveillance and collision warning and orbit determination) and people mobility and object tracking. He is an inventor of eight patents and has authored over 300 peer-reviewed publications in these fields and has attracted in excess of 50 million dollars (incl in-kind contributions) in funding from the Australian Research Council, and national and international governments and industries since 1990. He is a regular reviewer of various national and international funding agencies and journals, a member of journal editorial boards and a frequent guest speaker at various international events.

Prof Zhang is an Australian pioneer in cutting-edge technologies for smart tracking, weather and climate, atmosphere and space environment management applications. His satellite to satellite tracking frontier research has led to over 10 hours weather forecast improvement and successful integration of the GPS radio occultation data into the Australian weather forecasting system in 2012 and the technology is now considered one of the top 5 of the 30+ data sources used in reducing forecast error.

The research he led was ranked as “outstanding” in the Excellence in Innovation for Australia (EIA) trial 2012 and was featured in the ATN of Universities “50 solutions that count“. Prof Zhang’s research was also presented in the showcase of the “Partners for a Better Future –Australia and China: Science and Technology Week“ at the Shanghai World Expo 2010. RMIT SPACE was also selected as a finalist in “The Australian Innovation Challenge Award“ 2014.