

Prof. C.K. Shum



Prof. C.K. Shum is a Distinguished University Scholar, Division of Geodetic Science, School of Earth Sciences, at The Ohio State University, USA. He is a Fellow of the American Association for the Advancement of Science, and a Fellow of the International Association of Geodesy. He received numerous awards including the 2012 Vening Meinesz Medal from the European Geosciences Union. He was a Lead Author in 2007 Intergovernmental Panel for Climate Change (IPCC) Working Group 1 (The Physical Science Basis), Fourth Assessment Report (AR4), which contributed to the 2007 Nobel Peace Prize awarded to IPCC and Al Gore, Jr.

Prof. C.K. Shum and his group focus on scientific research relates to the quantification of 20th Century and present-day global sea-level rise due to various geophysical sources, including anthropogenic climate change. He specializes in satellite geodesy, precision satellite orbit determination, temporal gravity field and tide modeling, and their cross disciplinary science and applications to oceanography, hydrology, geodynamics, ice mass balance, GNSS meteorology and space physics.

LSGI Distinguished Lecture

Topic: Natural Hazards and Water Resources Studies

Using Space Geodesy



It was our pleasure to invite Prof. C.K. Shum, from Ohio State University, USA, to be our speaker in the LSGI Distinguished Lecture Series on 17 March 2016.

This lecture presents selected applications associated with plausible objectives towards quantifying terrestrial surface and ground water storages at a local and bi-weekly or shorter temporal scale, natural disaster events such as flood, drought, snow storms and cyclones, and addressing coastal vulnerability in deltaic regions to the combined effect of regional scale sea-level rise and land subsidence.