Dr. Jann-Yenq (Tiger) Liu
Center for Astronautical Physics and Engineering
National Central University, Taiwan

LIU, Jann-Yenq (Tiger) is a chair professor at Department of Space Science and Engineering, as well as Director of Center for Astronautical Physics and Engineering, National Central University, Taiwan. His research specialty is ionospheric radio, GNSS geoscience applications, ionospheric modeling, and lithosphere-atmosphere-ionospheric coupling. He is the member of AGU, EGU, AOGS, CGU, and JpGU. Prof. Liu received BS, Atmospheric Physics Department, National Central University, TAIWAN in 1980, as well as MS and PhD, Physics Department, Utah State University, USA in 1988 and 1990, respectively. He was Associated Professor at Institute of Space Science, as well as Center for Space and Remote Sensing Research, National Central University, TAIWAN during 1990-1997, and has been Professor since 1997. He also served as Chief Scientist of National Space Organization (NSPO) in Taiwan during 2011-2015. His research areas are in ionospheric space weather (solar flare, solar eclipse, and magnetic storm signatures), ionospheric data assimilation, ionospheric radar science, space- (radio occultation, RO) and ground-based GNSS geosciences applications (ionospheric total electron content, TEC), seismo-traveling ionospheric disturbance (ionospheric tsunami signature), and seismo-ionospheric precursors. He has been publishing more than 300 referred journal papers since 1988. About 50 out of them are developed by using ionospheric RO data of FORMOSAT-3/COSMIC (F3/C) and FORMOSAT-7/COSMIC-2 (F7/C2). Based on the ionospheric F3/C and F7/C2 RO observations, he has been promoting developments of ionospheric weather monitoring/nowcast/forecast models; finds several ionospheric new features, ionospheric plasma caves, ionospheric depletion bays, middle latitude electron density enhancement, ionospheric tsunami wave perturbations, and pre-earthquake ionospheric signatures; as well as investigates 3D electron density structures/dynamics of equatorial ionization anomaly, ionospheric tides, middle latitude trough, and Weddell Sea Anomaly in detail.