



## SEMINAR 專題演講



國立中央大學 太空科學與工程學系

Department of Space Science and Engineering, National Central University

### Time

Tuesday, September 9,  
2025  
15:00 – 16:00

# Why is an ionosphere researcher studying elephants?

### Place

健雄館(科四館)

S4-917 教室  
Room S4-917,  
Chien-Shiung Building

## - The Long Journey to the Elephant via earthquakes, Antarctica, and avalanches

Yoshihiro Kakinami  
Hokkaido Information University

I started my career by studying the Venus ionosphere. After I obtained a doctorate, I went back to earth and studied Earth's ionosphere with satellite data. At that time, I went around the world to install magnetometers that observe ionospheric currents. Having lost my way, I washed ashore in Taiwan. Arriving in Taiwan was a blessing for me, and I met the earthquake study. To investigate the earthquake, I learned how to use GNSS (Global Navigation Satellite System) data. That technique improved my navigational abilities and took me to many places. I began working on research topics such as Antarctica and avalanches. Finally, I have arrived at “elephant”.

In this talk, after providing basic information on the ionosphere and GNSS observations, I will focus on presenting my research findings. After this talk, you'll understand whether I drifted there or was guided by the compass to reach the elephant.