Full Name (English):	Deqing Mao	Recent Photo 
Affiliated Institution and Title (English):	University of Electronic Science and Technology of China, China Assoc. Prof	

Biography
(Please provide in paragraph form within 500 words.)

Deqing Mao received the received the B.S. degree from the School of Electronic Engineering, Chengdu University of Information Technology, Chengdu, China, in 2010, and received the Ph.D. degree with the School of Information and Communication Engineering, University of Electronic Science and Technology of China (UESTC), Chengdu, China, in 2022. From 2020 to 2021, he has been a Visiting researcher with the Technology University of Delft, the Netherlands. He has published more than 60 journal and conference papers in IEEE, and served as a guest editor for the journal Remote Sensing. He is currently an associate professor with UESTC. His research interests include radar signal processing, radar superresolution imaging.

Speech Title (English):

Advances on real aperture radar superresolution imaging

Speech Abstract
(Please provide in paragraph form within 500 words.)

Angular resolution of real aperture radar is limited by its aperture size. Based on the radar beam scanning, the signal model of real aperture radar can be modeled as a convolution relationship between the radar antenna pattern and targets scatterings. To improve the angular resolution of real aperture radar, our team has proposed several signal models and superresolution methods. Airborne real aperture radar flight experiments have carried out to verify the superresolution performance. In this report, I will share the advances on real aperture radar superresolution imaging by our team.