



APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE

DEC 2 - 5, 2025 | ICC JEJU, Jeju Island, Korea

| | |
|-------------------|---|
| Session Title: | [FG2] [SS] Recent Advances in Radar Research for Various Applications II |
| Session Date: | December 5 (Fri.), 2025 |
| Session Time: | 10:30-12:10 |
| Session Room: | Room G (303) |
| Session Chair(s): | Qiang Ren (Beihang University, China) Youngju Park (Agency for Defense Development, Korea) |

[FG2-1] 10:30-10:50

A Comprehensive Harmonic Radar Modeling Approach Through Analysis of Nonlinear Radar Equation and RCS

Sooyoung Oh and Sun K. Hong (Soongsil University, Korea (South))

[FG2-2] 10:50-11:10

Design of L-Band Radar Module Assembly

Gunyoung Kim (Hanwha Systems, Korea (South))

[FG2-3] 11:10-11:30

High-Precision Micro-Deformation Estimation Algorithm for mmWave GB-Arc-InSAR Based on One-Dimensional Range Projection

Shuliang Gui, Yue Li, Ze Li, Yizhe Wang, Kaikai Liu and Wei He (Chongqing University of Posts and Telecommunications, China)

[FG2-4] 11:30-11:50

A Novel MIMO Radar Imaging Algorithm for Mobile Platforms

Siyuan Zhao (National University of Singapore & NUS ECE, Singapore); Zhi Zheng, Lue Wen, Tiantian Yin and Xudong Chen (National University of Singapore, Singapore); Yongxin Guo (City University of Hong Kong, Hong Kong)

[FG2-5] 11:50-12:10

3D Mount-Angle Calibration Using Inverse Sensor Model-Based Occupancy Grid Map

Ho-Won Kim, Young-Seo Ji, Jun-Beom Cho and Byungkwan Kim (Chungnam National University, Korea (South))