



APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE

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

Session Title:

[TG4] Innovations in Antenna Design and Electromagnetic Tracking

Session Date:

December 4 (Thu.), 2025

Session Time:

15:40–17:20

Session Room:

Room G (303)

Session Chair(s):

Ick-Jae Yoon (Chungnam National University, Korea)
Yongjune Kim (The University of Suwon, Korea)

[TG4-1]

15:40–16:00

A Hybrid Wireless Tracking Method Based on Electromagnetic Tracking and IMU

Yuming Fu, Xiaoyang Wu and Yong-xin Guo (National University of Singapore, Singapore)

[TG4-2]

16:00–16:20

Quad-Polarized Wideband Magnetoelectric Dipole Antenna with Integrated Heatsink and Transmit/Receive Module Using PlutoSDR

Gong Chen, Jingxiang Wang and Yuyang Chen and Koen Mouthaan (National University of Singapore, Singapore)

[TG4-3]

16:20–16:40

A Dual-CP Active Phased-Array Antenna with Simultaneous Direction and Handedness of Arrival Estimation

Weimin Zeng and Zhi Hao Jiang (Southeast University, China); Min Fang (ZTE Corporation, China); Wei Hong (Southeast University, China)

[TG4-4]

16:40–17:00

Experimental Verification of Null Steering Using Wi-Fi Sniffing for Coexistence of Microwave Power Transfer and Wi-Fi

Ryugo Sato, Luming Feng, Zhengdong Lin, Hiroyuki Morikawa and Yoshiaki Narusue (The University of Tokyo, Japan)

[TG4-5]

17:00–17:20

Design of Broadband Electromagnetic Camouflage on Scattering Surface

Yongjune Kim (The University of Suwon, Korea (South))