



APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE
DEC 2 - 5, 2025 | ICC JEJU, Jeju Island, Korea

Session Title:

[TE1] Next-Generation Antenna Architectures: Lenses, Arrays, and Machine Learning

Session Date:

December 4 (Thu.), 2025

Session Time:

08:30-10:10

Session Room:

Room E (301)

[TE1-1] [Invited]

08:30-08:50

Low-Cost Lightweight 3D-Printed Luneburg Lenses Enabling Both Wide Angular and Long Distance Coverage for Radio Applications

Jun Xu, Wei Hong, Kai Chen and Yuechao Wang (Southeast University, China)

[TE1-2]

08:50-09:10

Ka-Band Omnidirectional Circularly Polarized Waveguide Slot Antenna for Low-Altitude UAV Applications

Jinlun Li and Yuqing Zhu (Southeast University, China); Chengcheng Yu (Sunway Communication, China); Hongxin Zhao (State Key Laboratory of Millimeter Waves, Southeast University, China)

[TE1-3]

09:10-09:30

An L-Band Dual-Polarized 8×8 Array with RFSoc-Based SCORE Digital Beamforming

Shiwen Tang and Peizhuo Yang (National University of Singapore, Singapore); Koen Mouthaan (NUS, Singapore)

[TE1-4]

09:30-09:50

Dual-Polarized, Lightweight, and Conformal L-Band Antenna Array with RFSoc for UAV Platforms

Xunlei Wang, Mohammad Ameen, Peizhuo Yang and Gong Chen (National University of Singapore, Singapore); Koen Mouthaan (NUS, Singapore)

[TE1-5]

09:50-10:10

Machine-Learning-Driven Auto-Tuning of PIFA for Recurrent Problems in Dynamic Environments via Offline Surrogate Modeling

Wei-Cheng Chen (National Taiwan University, Taiwan)