



APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE

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

Session Title:

[TE2] [SS] AI and Emerging Techniques in Antenna Design for IoT and Microwave Systems

Session Date:

December 4 (Thu.), 2025

Session Time:

10:30-12:10

Session Room:

Room E (301)

[TE2-1]

10:30-10:50

A High SNR 2.4 GHz PCB Antenna Design for Compact IoT Devices

Anh Duc Le (Hanoi University of Science and Technology, Vietnam); Tam Nguyen Thanh (Le Quy Don Technical University, Vietnam); Quoc Cuong Nguyen (Hanoi University of Science and Technology, Vietnam); Thuy Minh Le (School of Electrical & Electronic Engineering, Vietnam & Hanoi University of Science and Technology, Vietnam)

[TE2-2]

10:50-11:10

A Circularly Polarized Filtenna for IoT Monitoring Applications

Quang Minh Pham, Quoc Cuong Nguyen and Nguyen Xuan Quyen (Hanoi University of Science and Technology, Vietnam); Thuy Minh Le (School of Electrical & Electronic Engineering, Vietnam & Hanoi University of Science and Technology, Vietnam)

[TE2-3]

11:10-11:30

Multilayer CPWG-to-Waveguide Transition for Circularly Polarized Ku-Band Antenna Systems

Hoyong Kim, Gyoungdeuk Kim and Sangkil Kim (Pusan National University, Korea (South))

[TE2-4]

11:30-11:50

A High Aperture Efficiency Leaky Wave Antenna with a Nonlinear Elliptical Slot Distribution for High Power Microwave Applications

Wonkyo Kim and Mee-Su Lee (Chungnam National University, Korea (South)); Dong-Hoon Lee (Chungnam National University, Republic of Korea, Korea (South)); Junyeon Kim and Donggeun Seo (Agency for Defense Development, Korea (South)); Ick-Jae Yoon (Chungnam National University, Korea (South))

[TE2-5]

11:50-12:10

Diffusion Model Driven Inverse Design of Microstrip Patch Antenna Enabling Extendable FOM Modeling

Minje Kim, Jungsuek Oh, Taeyeong Yoon, Euiho Shin and Hooyoung Kim (Seoul National University, Korea (South))