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| **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) |
| **Session Chair(s):** | Le Minh Thuy (Hanoi University of Science and Technology, Vietnam) Sangkil Kim (Pusan National University, Korea) |

### [TE2-1] 10:30-10:50

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

Anh Le Duc (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); Minh Thuy 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); Minh Thuy 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, Mee-Su Lee and Dong-Hoon Lee (Chungnam National University, 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))