



APMC 2025

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

Session Title: [WE1] EMC Security and Modeling

Session Date: December 3 (Wed.), 2025

Session Time: 13:20–15:00

Session Room: Room E (301)

[WE1-1] [Invited]

13:20–13:40

A Taxonomy of Electromagnetic Information Leakage Threats Focusing on Emission Process

Yuichi Hayashi and Taiki Kitazawa (Nara Institute of Science and Technology, Japan); Hikaru Nishiyama (National Institute of Advanced Industrial Science and Technology (AIST), Japan & Nara Institute of Science and Technology (NAIST), Japan)

[WE1-2]

13:40–14:00

A Material Design Guideline for Millimeter-Wave Absorbers Derived from 3D Visualization of Target Permittivity and Conductivity

Dan Suzuki (Tohoku University, Japan); Kishio Hidaka (Tohoku University & Graduate School of Engineering, Japan); Saijian Ajia and Yasushi Endo (Tohoku University, Japan); Motoshi Tanaka and Shotaro Takahashi (Akita University, Japan); Tomonaga Ueno (Nagoya University, Japan); Tomoki Osato (SoraMaterials Incorporated, Japan); Sho Muroga (Tohoku University, Japan)

[WE1-3]

14:00–14:20

Modeling and Measurement of Electromagnetic Susceptibility Transfer for LDO Chips

Jingxuan Chen, Guangzhi Chen, Hongzhan Song, Zhenhua Wen, Youlong Weng and Donglin Su (Beihang University, China)

[WE1-4]

14:20–14:40

A Novel Reflection Wave Decomposition Method Using Voltage-Controlled Voltage Source (VCVS) for Signal Integrity Analysis

Seonghi Lee, Dongryul Park and Sanguk Lee (Korea Advanced Institute of Science and Technology, Korea (South)); Seunghun Ryu (Korea Advanced Institute Science and Technology (KAIST), Korea (South)); Hyunwoo Kim (Korea Advanced Institute of Science and Technology University, Korea (South)); Hyunsik Kim and Duksoo Kim (SK Hynix, Korea (South)); Seungyoung Ahn (Korea Advanced Institute of Science and Technology, Korea (South))

[WE1-5]

14:40–15:00

Antenna Solutions Employing Coupling-Fed Techniques for Improved Platform Noise Immunity

Chung-Hao Huang and Chao-Chin Xu (Chung Yuan Christian University, Taiwan); Kuan-Hsueh Tseng (Micro-Star INTL CO., LTD, Taiwan); Chen-Kun Yang (Micro-Star INTL CO. LTD, Taiwan)