



# APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE

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

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| Session Title: | [FF3] Wireless Power Transfer, RF Devices & Circuit Modeling |
| Session Date:  | December 5 (Fri.), 2025                                      |
| Session Time:  | 13:20-15:00  |
| Session Room:  | Room F (302)   |

[FF3-1] [Invited] 13:20-13:40

**Design and Calibration of a CW Time Reversal Wireless Power Transfer Transmitter with Pilot Signal Detection**

Young-Seok Lee, Taeyeon Yoon, Jungsuek Oh and Sangwook Nam (Seoul National University, Korea (South))

[FF3-2] 13:40-14:00

**PTX-Symmetric Wireless Power Transfer for IoT in Low-Q Conditions**

Myeongjun Shin (Konkuk University, Korea (South)); Chanho An (Konkuk University & Konkuk, Korea (South)); Hyunchul Ku (Konkuk University, Korea (South))

[FF3-3] 14:00-14:20

**K-Band WPT Link with a DC Output Power of 2.9 Watts and a High Transfer Efficiency of 20.7% from the Transmitter's RF Output Power**

Ryosuke Sato, Naoki Sakai and Kenji Itoh (Kanazawa Institute of Technology, Japan)

[FF3-4] 14:20-14:40

**Rectifier Model Using Two Types of Neural Networks for Multiple Average Input Power Levels**

Hiroto Sakaki (Mitsubishi Electric Corporation, Japan); Kenjiro Nishikawa (Kagoshima University, Japan)

[FF3-5] 14:40-15:00

**Design of Furniture Embedded 3-D Transmitting Coil for Multi-Receiver Wireless Power Transfer**

Yeong-Ju Seo, Seong-Jin Kim, Hyeon-Jeong Cho and Dong-Min Seo (KAIST, Korea (South)); Ji-Hoon Lee (Korea Advanced Institute of Science and Technology, Korea (South)); Jong-Won Yu (Korea (South))