



# APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE

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

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| <b>Session Title:</b> | <b>[WG1] Radar Hardware and Systems</b> |
| <b>Session Date:</b>  | <b>December 3 (Wed.), 2025</b>          |
| <b>Session Time:</b>  | <b>13:20-15:00</b>                      |
| <b>Session Room:</b>  | <b>Room G (303)</b>                     |

**[WG1-1]** 13:20-13:40

**Bi-Directional Gain-Enhanced D-Band FMCW Radar with Transmitarray and Packaging-Conscious AoP Integration**

Dongyeon Seo (Seoul National University, Korea (South)); Kwangseok Choi and Seongeun Yoon (Korea Electronics Technology Institute, Korea (South)); Jungsuek Oh (Seoul National University, Korea (South))

**[WG1-2]** 13:40-14:00

**Six-Port Interferometric CW Radar for Vibration Detection**

Kamil Staszek (AGH University of Krakow, Poland)

**[WG1-3]** 14:00-14:20

**Ultra-Compact Short Range FMCW Radar Using a Shared TX-RX Antenna**

Minha Kim, Han Yan and Han Lim Lee (Chung-Ang University, Korea (South))

**[WG1-4]** 14:20-14:40

**A High-Linearity CMOS Baseband Receiver with 33 dB Spillover Cancellation for 60 GHz FMCW Radar**

Kyunghwan Kim (Samsung Electronics, Korea (South)); Hongkie Lim (Electronics and Telecommunications Research Institute (ETRI), Korea (South)); Doyoon Kim, Geonho Park, Goeun Baek and Jun-Seong Kim (Samsung Electronics, Korea (South)); Byeong-Taek Moon (KAIST, Korea (South)); Hyun-Chul Park and Chan-Hong Park (Samsung Electronics, Korea (South))

**[WG1-5]** 14:40-15:00

**Improvement of Dynamic Range Applying the Brewster Angle for Corrosion Evaluation on Rebar Using Doppler Sensors at 10 GHz**

Taisei Watanabe and Ryosuke Suga (Aoyama Gakuin University, Japan)