



# 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>  |
| <b>Session Chair(s):</b> | <b>Yuan Yao (Beijing University of Posts and Telecommunications, China)<br/>Chul Ki Kim (Soongsil University, Korea)</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, Jun-Seong Kim, Byeong-Taek Moon, 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)