



APMC 2025

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

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| Session Title: | [FG1] [SS] Recent Advances in Radar Research for Various Applications I |
| Session Date: | December 5 (Fri.), 2025 |
| Session Time: | 08:30–10:10 |
| Session Room: | Room G (303) |
| Session Chair(s): | Changzhan Gu (Shanghai Jiao Tong University, China) Sun K. Hong (Soongsil University, Korea) |

[FG1-1] 08:30–08:50

Data Augmentation Techniques for Radar-Based Vital Sign Detection

Kyuhwan Hwang and Dohyeon Lee (Ajou University, Korea (South)); Kyoung Hwan Park (Electronics and Telecommunications Research Institute, Korea (South)); Yong Bae Park (Ajou University, Korea (South))

[FG1-2] 08:50–09:10

Low-Power Comparator-Counter-Based SIL Radar for Wrist Pulse Detection

Haotian Shi, Zhi Zheng and Bo Wang (National University of Singapore, Singapore); Yongxin Guo (City University of Hong Kong, Hong Kong)

[FG1-3] 09:10–09:30

Advanced Waveform Design for Integrated Sensing and Communication Applications

Seonmin Cho, Chanul Park and Seongwook Lee (Chung-Ang University, Korea (South))

[FG1-4] 09:30–09:50

Robust Heart-Rate Monitoring Under Sleep Postural Variability Using a 24-GHz MIMO FMCW Radar

Zhiwei Zhang, Keke Zheng and Jiayu Zhang (Shanghai Jiao Tong University, China); Yijing Guo (Shanghai Sixth People's Hospital, China); Changzhan Gu (Shanghai Jiao Tong University, China)

[FG1-5] 09:50–10:10

Data Fusion Method to Improve the Detection Accuracy of an anti-Artillery Radar

Hyung-Gi Na (LIGNEX1, Korea (South))