



APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE

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

Session Title:	[TG2] [SS] Emerging Electromagnetic Technologies for Medical Diagnosis and Therapy
Session Date:	December 4 (Thu.), 2025
Session Time:	10:30-12:10
Session Room:	Room G (303)
Session Chair(s):	Cheng Wang (University of Electronic Science and Technology of China, China) Joo Hiuk Son (University of Seoul, Korea)

[TG2-1] 10:30-10:50

A Knowledge-Fusion Deep Learning Approach for Premature Beat Classification Using mmWave Radar in Clinical Settings

Yuchen Li, Jie Cao and Gaomin Xue (Shanghai Jiao Tong University, China); Xiaolei Xu, Qishan Chen and Li Zhang (Xinhua Hospital Affiliated to Shanghai Jiaotong University School of Medicine, China); Changzhan Gu (Shanghai Jiao Tong University, China)

[TG2-2] 10:50-11:10

Transcutaneous Auricular Vagus Nerve Stimulation for Cognitive Enhancement

Yena Lee, Suh Yeon Moon, Junyoung Shin, Shinhee Noh, Jee Eun Sung and Sang Beom Jun (Ewha Womans University, Korea (South))

[TG2-3] 11:10-11:30

Preliminary Design of a Modified Birdcage Receiver RF Coil for ^{23}Na Breast MRI at 7T

Sheikh Faisal Ahmad (Kyungpook National University & Institute of Advanced Convergence Technology, Korea (South)); Sukhoon Oh (Korea Basic Science Institute, Korea (South)); Hyun Deok Kim (Kyungpook National University, Korea (South))

[TG2-4] 11:30-11:50

Wrist-Worn Frequency-Modulated Continuous Wave (FMCW) Radar for Respiration Monitoring

Iou Heng Chen, Ji-Xun Zhong, Ju-Yin Shih and Fu-Kang Wang (National Sun Yat-sen University, Taiwan)

[TG2-5] 11:50-12:10

Terahertz Radiation for Novel Cancer Therapy

Joo-Hiuk Son (University of Seoul, Korea (South)) & iNexus, Inc., Korea (South))