



APMC 2025

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

Session Title:	[FF2] [SS] AI-Driven Design and Signal Processing in RF, mmWave, and THz Systems
Session Date:	December 5 (Fri.), 2025
Session Time:	10:30-12:10
Session Room:	Room F (302)
Session Chair(s):	Kritika Bansal (VIT-AP University, India) Jungick Moon (ETRI, Korea)

[FF2-1]	10:30-10:50
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Inverse Design of on-Chip Millimeter-Wave Wideband Filter via Equivalent Circuit-Based Learning Scheme

Jingwei Zhang (Zhejiang University, China)

[FF2-2]	10:50-11:10
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Evaluating the Generalization of Supervised and Unsupervised Spectrum Anomaly Detection on Unseen Frequency Bands

Byungkwan Kim (Chungnam National University, Korea (South))

[FF2-3]	11:10-11:30
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Y-Slot Patch Antenna Using MLP Neural Networks Trained on ADS Circuit Datasets

Muhammad Kamran Shereen, Xiaoguang Liu and Xiaohu Wu (Southern University of Science and Technology, China); Ayesha Naseem (FAMU-FSU College of Engineering Tallahassee, Florida, USA); Muhammad Uzair (Florida A&M University, USA)

[FF2-4]	11:30-11:50
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Self-Supervised Deep Learning for THz-TDS Image Denoising

Seung-Hwan Jung and Woon-Ha Yeo (Sahmyook University, Korea (South)); Seung Jae Oh (Yonsei University, Korea (South)); Han-Cheol Ryu (Sahmyook University, Korea (South))

[FF2-5]	11:50-12:10
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Analyzing the Effects of Raised-Cosine Tapering on WVD-CNN Detection of Pulsed Chirp Signals

Yunbae Kim, Jonghun Yoon and Bongsu Kim (Electronics and Telecommunications Research Institute (ETRI), Korea (South))