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Session Title:	[Fr1A] Machine Learning for Beam Synthesis and Analysis
Session Date:	August 9 (Fri.), 2024
Session Time:	09:00-09:45
Session Room:	Room A (102-103)
Session Chair(s)	Dr. Chang Hyun Kim (KIST, Korea)

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[Fr1A-1] 09:00-09:15

Low-complexity Optical-mode Decomposition through Vector-eigenmode pursuing Residual Network (VE-ResNet) by only Intensity-domain Information

Jianjun Li, Rui Zhang (Univ. of Electronic Science and Tech. of China, China), Feng Yang (Marolabs Co., Ltd., China), Baojian Wu, Kun Qiu, and Feng Wen (Univ. of Electronic Science and Tech. of China, China)

[Fr1A-2] 09:15-09:30

Differential Evolution Algorithm for Compact and Highly Accurate Photonic Extreme Learning Machines

Jose Roberto Rausell-Campo (Universitat Politecnica de Valencia, Spain), Daniel Pérez-López (iPronics Programmable Photonics, Spain), Antonio Hurtado (Univ. of Strathclyde, UK), and José Capmany (Universitat Politecnica de Valencia, Spain)

[Fr1A-3] 09:30-09:45

Accelerating Orbital Angular Momentum Complex Spectrum Analysis via Deep Learning

Shiyun Zhou, Chunqing Gao, and Shiyao Fu (Beijing Inst. of Tech., China)