

iMiD 2025

The 25th International Meeting on Information Display
August 19-22, 2025 / BEXCO, BUSAN, KOREA

Session Title:	14. AI for Efficient Display Design
Session Date:	August 20 (Wed.), 2025
Session Time:	10:50-11:50
Session Room:	Room F (313)
Session Chair(s):	Dr. Mathew Halls (Schrödinger, Inc., USA) Mr. Young Wook Yoo (Samsung Display Co., Ltd., Korea)

[F14-1] [Invited]

10:50-11:20

From Molecules to Displays: A Digital Chemistry Platform Uniting Physics-Based Simulation with Machine Learning for Optoelectronic Design

Mathew D. Halls, H. Shaun Kwak , Hadi Abroshan, Kevin B. Moore III, Eric M. Collins, Alex K. Chew, Jack Weber, and Anand Chandrasekaran (Schrödinger Inc., USA)

[F14-2]

11:20-11:35

FHD-to-UHD: An Energy Efficient and Lightweight Deep Learning-Based High-Performance Image Upscaler for Display TCON Integration

Young Wook Yoo, Young Seoung Kim, and Jae Won Kim (Samsung Display Co., Ltd., Korea)

[F14-3]

11:35-11:50

Machine Learning-Based Wobulation for Automotive Headlight Projectors: High-Speed Generation of Subpixel-Shifted Images

ChangHi Lee, Myeong-Ho Choi, and Jae-Hyeung Park (Seoul Nat'l Univ., Korea)