iMiD 2021
The 21st International Meeting on Information Display
August 25-27, 2021 / COEX, Seoul, Korea

Session Title:	[WA2] Oral 04. Optics and Circuits Design with AI/Simulation
Session Date:	August 25 (Wednesday), 2021
Session Time:	15:00-16:35
Session Room:	Room A (101+102)
Session Chair(s):	Hwi Kim (Korea Univ., Korea)

[WA2-1] [Invited] On-line (Pre-recorded) / On-demand

Optical Model of Organic Light-Emitting Diodes based on the Generalized Poynting Vector Method

Jungho Kim (Kyung Hee Univ., Korea)

[WA2-2] [Invited] Off-line / 15:00-15:25

Bidirectional-Scattering-Matrix-Method Based Adjoint Inverse Design Algorithm for Diffractive Display Optic Devices

Hwi Kim (Korea Univ., Korea)

[WA2-3] [Invited] Off-line / 15:25-15:50

Anchor-Free Fingerprint Core Detection based on a Truncated GoogleNet Model

Shallon Stubbs, Soongyu Lee, Youngwook Yoo, and Pilho Kim (Samsung Display Co., Ltd., Korea)

[WA2-4] Off-line / 15:50-16:05

Optimization of Pixel Layout Generator for AMOLED Displays

Jungsuk Bang, Myunghun Lim, Min Kang, Yongwoo Lee, and Yongjo Kim (Samsung Display Co., Ltd., Korea)

[WA2-5] Off-line / 16:05-16:20

Artificial Neural Network Transistor Modelling and Display Compensation Method

Sang-ik Lee, Joonchul Goh, Minseok Bae, Junwoo Son, and Wonjun Choe (Samsung Display Co., Ltd., Korea)

[WA2-6] Off-line / 16:20-16:35

Inverse Design of Organic Light-Emitting Diode Structure based on Deep Neural Network

Sanmun Kim, Jeong Min Shin (KAIST, Korea), Jaeho Lee (LG Display Co., Ltd., Korea), Chan Hyung Park (KAIST, Korea), Dongjin Seo (KC Machine Learning Lab., Korea), Sehong Park (LG Display Co., Ltd., Korea), and Min Seok Jang (KAIST, Korea)

[WA2-7] On-line (Pre-recorded) / On-demand

Enhancing OLED Outcoupling Efficiency via Atomistic-Scale Simulations

Paul Winget, H. Shaun Kwak, Hadi Abroshan, Christopher Brown, and Mathew D. Halls (Schrödinger, Inc., USA)

[WA2-8] On-line (Pre-recorded) / On-demand

Development of Computational Optical Detection for Initial Uniformity Compensation and Defect Defection on AMOLED Displays

Shuenn-Jiun Tang, Tristan Le, Tong Liu, Tristan Doodnauth, and Junhu He (Ignis Innovation Inc., Canada)