

iMiD 2025

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

Session Title:	30. AI for Computational Design I
Session Date:	August 21 (Thu.), 2025
Session Time:	11:00-12:30
Session Room:	Room F (313)
Session Chair(s):	Dr. Sandra Jenatsch (Fluxim AG, Switzerland) Dr. Hyun Sung Park (Samsung Display Co., Ltd., Korea)

[F30-1] [Invited]	11:00-11:30
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Computational Design and Optimization of Subpixel Concepts for Innovative OLED Displays

Sandra Jenatsch, Balthasar Blülle, Adrian Langenbach (Fluxim AG, Switzerland), Peter Levermore (Excyton Limited, UK), and Beat Ruhstaller (Fluxim AG, Switzerland)

[F30-2]	11:30-11:45
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Optimal Heating Profile Design Using Deep Reinforcement Learning for 10th Generation OLED Manufacturing Applying Inductive Heating Technology

Doo Seok Lee (DGIST, Korea), Sihyun Lee, Heeyoon Lee (SVMTECH, Korea), Young Rock Kim, Tae-Su Park (Hankuk Univ. of Foreign Studies, Korea), Hanyong Lee (Kyonggi Univ., Korea), Wanho Lee, and Taeyoung Ha (Nat'l Inst. for Mathematical Sciences, Korea)

[F30-3]	11:45-12:00
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Scoreboard-Based Reinforcement Learning for Digital Logic Gate Synthesis

Hyeonseong Cho, Yeonhak Pyo, Tae Woong Lee (Kyung Hee Univ., Korea), Jiyoung Lee, Hyunyoung Choi, Hyung Uk Cho (Samsung Display Co., Ltd., Korea), and Hyoungsik Nam (Kyung Hee Univ., Korea)

[F30-4]	12:00-12:15
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Privileged Structure-Based Molecular Fingerprints for Organic Electronic Materials: Towards Intuitive Machine Learning Interpretation and Efficient Molecular Design

Tae Wook Yang, Seung Hyun Jo, and Min Chul Suh (Kyung Hee Univ., Korea)

[F30-5]	12:15-12:30
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A Novel Methodology for Evaluating Corrosion Failure Risk of OLED Panels

Hyun Sung Park, Sooyoung Park, Dongjin Seo, Hyeseok Na, Yujin Choi, Young-Gu Kang, Hyeondo Park, Wondo Kim, Minji Kim, Jangwoo Kim, and Seung-in Baek (Samsung Display Co., Ltd., Korea)