

会议详细议程初版 (Advanced Program)



2026 International Conference on Display Technology

March 31-April 3, 2026 (Tuesday - Friday)

Conference: Yuelai International Convention Center

Exhibition: Chongqing International Expo Center

Chongqing, China

Opening Remark

开幕式

Wednesday, April 1/14:00-14:30/ Liangjiang Grand Ballroom A

Plenary Session

大会主旨演讲

Wednesday, April 1/14:30-18:30/ Liangjiang Grand Ballroom A

Chair: Xingqun Jiang (姜幸群), BOE Technology Group Co., Ltd.

Co-Chair: Zong Qin (秦宗), Sun Yat-sen University

Short Course

短期课程

Short Course 1 (Language is English)

Tuesday, March 31/9:00-12:00/ Meeting Room 102A

Title: Display 101

显示 101

Ian Underwood, The University of Edinburgh & Sam Phenix, Phenix Consulting

Short Course 2 (Language is Chinese)

Tuesday, March 31/9:00-12:00/ Meeting Room 102B

Title: OLED Materials and Devices

OLED 材料与器件

Lian Duan (段炼), Tsinghua University

Short Course 3 (Language is Chinese)

Tuesday, March 31/9:00-12:00/ Meeting Room 103A

Title: VR/AR Optical System Design: Principles and Engineering Processes

VR/AR 光学系统设计: 原理与工程工艺

Dewen Cheng (程德文), Beijing Institute of Technology

Short Course 4 (Language is Chinese)

Tuesday, March 31/9:00-12:00/ Meeting Room 103B

Title: Color Science 101

颜色科学 101

Minchen Wei (魏敏晨), The Hong Kong Polytechnic University

Seminar

专题技术讲座

Seminar 1 (Language is Chinese)

Tuesday, March 31/14:00-15:30/ Meeting Room 102A

Title: 3D Light Field Display Technology and Applications

3D 光场显示技术与应用

Xunbo Yu (于迅博), Beijing University of Posts and Telecommunications

Seminar 2 (Language is English)

Tuesday, March 31/15:45-17:15/ Meeting Room 102A

Title: Breaking Down the Display & Optics Driving the Smart-glass Enabled Future

面向未来智能眼镜的显示与光学前瞻性技术分析

Radu Reit, Display Training Center

Seminar 3 (Language is Chinese)

Tuesday, March 31/14:00-15:30/ Meeting Room 102B

Title: The In-depth Analysis of New Automotive Display Technologies: From Principles and Parameters to Application Implementation

车载显示新技术深度解析：从原理参数到应用落地

Xiongping Li (李雄平), Tianma Microelectronics Co., Ltd.

Seminar 4 (Language is Chinese)

Tuesday, March 31/15:45-17:15/ Meeting Room 102B

Title: Recent Advancements of High-Mobility Thin-Film Transistors

高迁移率 TFT 研究进展

Lei Lu (陆磊), Peking University

Seminar 5 (Language is Chinese)

Tuesday, March 31/14:00-15:30/ Meeting Room 103A

Title: Recent Trends in AR Waveguide Design and Fabrication

AR 波导设计与制造的最新趋势

Lei Zhao (赵蕾), Yongjiang Laboratory

Seminar 6 (Language is English)

Tuesday, March 31/15:45-17:15/ Meeting Room 103A

Title: Optical Metasurfaces for Imaging, Sensing, and Display

用于成像、传感和显示的光学超表面

Junsuk Rho, Pohang University of Science and Technology

Display Technology and Industry Standards Forum (Invited Only)

显示技术和产业标准论坛

Tuesday, March 31/ 9:00-12:00/ Apollo VIP Room

Micro/Mini LED Display Core Technology Road Map Forum

Micro/Mini LED 显示关键技术路线研讨会

Tuesday, March 31/14:00-18:00/ Athena Function Room

ICDT "Display Future Star Cup" Innovation Achievement Competition

ICDT "显示未来之星杯"创新成果大赛

Tuesday, March 31/ 14:00-16:30/ Meeting Room 103B

JSID Journal Publication Training Session

JSID 期刊发表培训会

Tuesday, March 31/ 16:45-18:00/ Meeting Room 103B

Display Industry Future Technology Strategy Summit (FTS) (Invited only)

显示产业未来技术战略峰会 (显示行业领袖峰会) (闭门会议)

Wednesday, April 1/9:30-12:00/ Athena Function Room

New Technology and New Product Public Release

新技术新产品发布会

Wednesday, April 1/9:05-10:05/ Central Hall

Exhibitor Forum 1

展商论坛 1

Wednesday, April 1/10:30-11:45/ Central Hall

Exhibitor Forum 2

展商论坛 2

Thursday, April 2/14:00-15:15/ Central Hall

Roadshow of Innovation & Entrepreneurship Projects

创新创业项目路演

Thursday, April 2/9:00-11:40/ Central Hall

Business Conference

商业会议

Thursday, April 2/9:00-12:00 & 13:30-17:00/ Athena Function Room

AI for Imaging and Display Special Forum

AI 赋能成像与显示专题论坛

Thursday, April 2/9:00-12:00/ Fabulous Function Room C

Chair: Xingqun Jiang (姜幸群), BOE Technology Group Co., Ltd.

Human Factor and Visual Health Special Forum

人因与视觉健康专题论坛

Thursday, April 2/8:30-12:00/ Fabulous Function Room B

Chair: Yunhong Zhang (张运红), China National Institute of Standardization

Co-Chair: Weidong Huang (黄卫东), TCL CSOT

1. 40Hz Light Flickering: the Adenosine Hypothesis and Translational Implications (8:30-8:50)

Jiangfan Chen (陈江帆), Wenzhou Medical University

2. Quality of Experience Evaluation: Humans, Data, and Agents (8:50-9:10)

Guangtao Zhai (翟广涛), Shanghai Jiao Tong University

3. From PC Objective Metrics to Scenario-Based User Value Discovery (9:10-9:30)

Ke Shang (尚可), Lenovo

4. The Applications of Micro OLED Based Head Mounted Displays for Surgery and Vision Health (9:30-9:50)

Huajun Peng (彭华军), Shenzhen NEDOptics Co., Ltd.

5. Beneficial Natural Light Technology (BNL) (9:50-10:10)

Ruichen Zhang (张瑞辰), Beijing BOE Display Technology Co., Ltd.

6. Reshaping the Evolutionary Visual Environment: Decoding the Light Signals of Natural Displays (10:10-10:30)

Guofu Tang (唐国富), TCL CSOT

7. Human Factors Meets Optics: SGS' s eye care Journey and Future Vision (10:30-10:50)

Ziwen Liu (刘子文), SGS-CSTC Standards Technical Services Co., Ltd.

Metaverse and Display Special Forum

元宇宙与显示专题论坛

Thursday, April 2/9:00-12:00/ Fabulous Function Room A

Chair: Zong Qin (秦宗), Sun Yat-sen University

1. AI-Driven High-Definition Glasses-Free 3D Light Field Display with Large-Viewing-Angle (9:00-9:20)

Xinzhu Sang (桑新柱), Beijing University of Posts and Telecommunications

2. Three-Dimensional Light Field Display Based on Freeform Directional Backlight (9:20-9:40)

Rengmao Wu (吴仍茂), Zhejiang University

3. Resolution Enhancement of Light Field Near-Eye Display Using Elemental Image Optimization (9:40-10:00)

Jae-Hyeung Park, Seoul National University

4. Novel Optical Architectures of Retinal Projection Near-Eye Displays (10:00-10:20)

Enguo Chen (陈恩果), Fuzhou University.

5. Liquid-Crystal Polarization Volume Holograms Drive Breakthroughs in XR Near-Eye Displays (10:20-10:40)

Kun Gao (高塋), Goertek Alpha Labs

6. Recent Technological Advancements in Color Sequential Front-Lit LCOS for AR Displays (10:40-11:00)

Yuet Wing Li (李悦荣), Himax Display Inc.

7. Enabling High Performance AR Waveguide Display with Semiconductor Manufacturing Technologies (11:00-11:20)

Jinxin Fu, Applied Materials

Women in Tech (Language is Chinese)

科技中的女性

Thursday, April 2/9:00-12:00/ Apollo VIP Room

Chair: Lei Zhao (赵蕾), Yongjiang Laboratory

ICDT “Display Future Star Cup” Debate Competition (Language is Chinese)

ICDT “显示未来之星杯” 辩论赛

Thursday, April 2/9:00-12:00 & 14:00-17:30/ Meeting Room 106

SID Beijing Chapter Technical Committee Meeting

SID 北京分会技术委员会会议

Thursday, April 2/19:00-21:00/ Wyndham Chongqing Yuelai

Wide Color Gamut Display Special Forum

广色域显示专题研讨会

Friday, April 3/9:00-12:00/ Felicity Function Room C

Young Leader Conference

中韩青年领袖论坛

Friday, April 3/13:30-17:40/ Felicity Function Room C

Chair: Qijun Sun (孙其君), Beijing Institute of Nanoenergy and Systems, Chinese Academy of Sciences

1. Nonlinear Light Field Manipulation via Ferroelectric Nematic Microstructures (13:30-13:50)

Lingling Ma, Nanjing University

2. Mechanistic Design of Quantum Dots for Stable and High-Performance Display Applications (13:50-14:10)

Jiwoong Yang, Daegu Gyeongbuk Institute of Science and Technology

3. From Inkjet Droplets to Pixels: Data-Efficient CCL Printing Optimization and Real-Time FPGA Image Enhancement (14:10-14:30)

Wu Yongwei, Shenzhen Technology University

4. Ultra-flexible Skin-compatible Organic Optoelectronics for Wearable Application (14:30-14:50)

Sungjun Park, Ajou University

5. Focus-tunable Microlens Array for 2D/3D Switchable Displays (14:50-15:10)

Miao Xu, Hefei University of Technology

6. High-definition & Deformable Quantum Dot Light-emitting Diodes via Transfer Printing (15:10-15:30)

Moon Kee Choi, Ulsan National Institute of Science and Technology

7. Electro-excitation Dynamics of Colloidal Quantum Dots (15:40-16:00)

Yunzhou Deng, University of Cambridge

8. High Performance Compressive Light Field 3D Displays (16:00-16:20)

Chen Gao, Fujian Science & Technology Innovation Laboratory for Optoelectronic Information of China

9. Device Construction and Application Development of Multifunctional Electrophoretic Displays (16:20-16:40)

Guangyou Liu, Wuhan Textile University

10. High-performance Phosphonic-acid-based Monolayer Alignment Materials with Room-temperature Treatment (16:40-17:00)

Yu Xinyi, Hong Kong University of Science and Technology

11. Intelligent Three-dimensional Processing and Display of Light Field (17:00-17:20)

Qiang Li, Xidian University

12. Deep Learning-aided Computer-Generated Holography (17:20-17:40)

Wenbin Zhou, The University of Hong Kong

Display Industry Sustainable Development Special Forum (Invited Only)

显示产业可持续发展研讨会 (闭门会议)

Friday, April 3/14:00-18:00/ Fabulous Function Room A

Chair: Xinyue Zhao (赵心悦), TÜV Rheinland (Shenzhen) Co., Ltd.

the Award Ceremony of SID China Display Industry Award

SID 中国区显示行业奖颁奖仪式

Friday, April 3/9:30-10:30/ Central Hall

Technical Sessions

Session 1: OLED Display - Applications (OLEDs)

Wednesday, April 1/8:30-10:10/ Felicity Function Room A

1.1 *Invited Paper*: Application of ACR Optimization Technology for Wide Viewing Angle in Large-Size OLED Displays (8:30-8:50)

Yunpeng Zhang, Chengdu BOE Optoelectronics Group Co., Ltd.

1.2 *Invited Paper / Distinguished Paper*: Boosting the Efficiencies of OLEDs through ViP™ Technology (8:50-9:10)

Minghan Cai (蔡明瀚), Visionox Technology Inc.

1.3 *Invited Paper*: View-Angle Control Using Light-control Structure in the OLED Panel for Automotive (9:10-9:30)

Youchun Chen, Chengdu BOE Optoelectronics Technology Co., Ltd.

1.4 A 1512 PPI Real RGB Glassed-OLED Display for VR (9:30-9:50)

Rongjuan Yang, Shenzhen China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

1.5 A Technical Method for Implementing Dynamic Privacy Protection in OLED Displays (9:50-10:10)

Junlin Hu, Yungu (Gu'an) Technology Co., Ltd.

Session 2: OLED - TADF Materials & Sensitizer (OLEDs)

Wednesday, April 1/8:30-10:10/ Felicity Function Room B

2.1 *Invited Paper*: Exciplex Host Engineering for High Efficiency and Stable Green PSF Technology (8:30-8:50)

Jang Hyuk Kwon, Kyung Hee University

2.2 *Invited Paper*: Narrowband MR-TADF Materials and OLEDs for High-Definition Displays (8:50-9:10)

Chuluo Yang (杨楚罗), Shenzhen University

2.3 *Invited Paper*: Highly Efficient and Stable Sensitized Blue OLEDs (9:10-9:30)

Dongdong Zhang (张东东), Tsinghua University

2.4 *Invited Paper*: Organic Room-Temperature Phosphorescence Sensitization in MR-TADF OLEDs (9:30-9:50)

Junqiao Ding (丁军桥), Yunnan University

2.5 *Invited Paper*: Narrowband Organic Light-Emitting Materials and Devices (9:50-10:10)

Yuewei Zhang (张跃威), Tsinghua University

Session 3: Micro-LED Epitaxy Technology (EMQ-MicroLED)

Wednesday, April 1/8:30-10:30/ Felicity Function Room C

3.1 *Invited Paper*: Recent Progress in InGaN-based Sub- μm Sized RGB MicroLEDs (8:30-8:50)

Lars Samuelson, Institution of Nanoscience and Applications, Southern University of Science and Technology

3.2 *Invited Paper*: MicroLED Value Chains to Enable the AI Revolution (8:50-9:10)

Burkhard Slischka, ALLOS Semiconductors

3.3 *Invited Paper*: Core Drivers of AR Application: GaN Epitaxy (9:10-9:30)

Liyang Zhang (张丽昉), Enkris Semiconductor, Inc.

3.4 Comparative Analysis of Light Extraction Directionality in Polar, Semi-polar, and Non-polar SAG MicroLEDs for AR Displays (9:30-9:50)

Ze Yuan, Yongjiang Laboratory

3.5 Non-covalent Epitaxy for Flexible and High-definition LED Display Applications (9:50-10:10)

Young Joon Hong, Sungkyunkwan University

3.6 Photolithographic Quantum-Dot OLED for MicroDisplays (10:10-10:30)

Rongzhen Cui, Kunshan Govisionox Optoelectronics Co., Ltd.

Session 4: Near-Eye Display Optics Technology (VR/AR/MR)

Wednesday, April 1/8:30-10:30/ Fabulous Function Room A

4.1 Invited Paper: Light Field 3D Display with High Resolution (8:30-8:50)

Yan Xing (邢妍), Beihang University

4.2 Invited Paper: A Compact Full Color Laser Beam Scanning Module for Near-eye Display (8:50-9:10)

Wenjiang Shen (沈文江), Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences

4.3 Invited Paper: Achieving Ultra-Lightweight and Slim AR Smart Glasses through an OLED-Based PinTILT Optical Structure (9:10-9:30)

Jeonghun Ha, LetinAR

4.4 The Impact of Waveguide Spectral Filtering on AR Color Fidelity (9:30-9:50)

Tianxing Zhu, Instrument Systems GmbH

4.5 A Two-Stage Optical Design Methodology for an Eyebox-Expanded 3D AR-HUD (9:50-10:10)

Junnan Jin, TCL China Star Optoelectronics Display Technology Co., Ltd.

4.6 Distinguished Student Paper: Synthetic-Aperture Wavefront Coding Enabling a Full Depth-of-Field for Light-Field Displays (10:10-10:30)

Mingjing Wang, Sun Yat-sen University

Session 5: Color Assessment (Applied Vision)

Wednesday, April 1/8:30-9:50/ Fabulous Function Room B

5.1 Invited Paper: Reproducing Color Appearance of Real Scenes in Head-mounted Displays (8:30-8:50)

Shining Ma (马诗宁), Beijing Institute of Technology

5.2 Invited Paper: Evaluation Method and Research on Display Technology Based on Natural Spectrum Similarity (8:50-9:10)

Guofu Tang (唐国富), TCL China Star Optoelectronics Technology Co., Ltd.

5.3 Skin Color Preference of Multiple Ethnic Groups (9:10-9:30)

Beijia Qin, Zhejiang University

5.4 Which Color will Produce More Observer Mismatch for Displays? (9:30-9:50)

Siyuan Song, Zhejiang University

Session 6: AI for Interactive and Novel Displays (AI for Imaging and Display)

Wednesday, April 1/8:30-10:10/ Fabulous Function Room C

6.1 Invited Paper: Learning with Graph Attention Network for Human Parsing: Enhancing Perception Foundation for Natural Human-Computer Interaction (8:30-8:50)

Chengrui Le (乐城瑞), Yongjiang Laboratory

6.2 Innovative Applications Based on Absolute Pointing Remote Control Technology (8:50-9:10)

Xingxing Jiao, BOE Technology Group Co., Ltd.

6.3 A Real-Time Eye Tracking System for Man to Machine Interaction on Light Field Display (9:10-9:30)

Runshen Lu, Faith Billion Technology Development Limited

6.4 Beyond MLPs: Convolutional Color Constancy with Kolmogorov-Arnold Networks (9:30-9:50)

Liangwei Chen, Zhejiang University

6.5 Vision-Language Models Internalize Human-Like Memory Colors from Real-World Objects (9:50-10:10)

Zhiyu Chen, Wuhan University

Session 7: LC Photonic Devices (Liquid-Crystal Technology)

Wednesday, April 1/8:30-10:10/ Apollo VIP Room

7.1 Invited Paper: Liquid Crystal Devices Transmitted Rays' Doubling (8:30-8:50)

Victor Belyaev, Peoples' Friendship University of Russia

7.2 Invited Paper: Photonic Devices of Twist Structure Liquid Crystals (8:50-9:10)

Jiangang Lu (陆建钢), Shanghai Jiaotong University

7.3 Invited Paper: 3D Liquid Crystal Microstructures Based on Two-Photon Polymerization (9:10-9:30)

Wanlong Zhang (张万隆), Shenzhen University

7.4 A Highly Efficient Three-Dimensional Nonuniform Finite-Difference Model for Electrically Stimulated Liquid Crystals Photonic Devices Enabling Dynamic Photomask Lithography (9:30-9:50)

Peiyun Li, South China Normal University

7.5 Holographic Image Generation Using Photoaligned Liquid Crystals (9:50-10:10)

Pouya Nosrathkhan, The Hong Kong University of Science and Technology

Session 8: HUD (Vehicle Display)

Wednesday, April 1/8:30-10:30/ Meeting Room 103

8.1 Future Trends in Smart Cockpit Displays (8:30-8:50)

Ziqiang Deng (邓紫强), Chipone Technology (Beijing) Co., Ltd.

8.2 Invited Paper: Human-Oriented Virtual-Real Fusion Measurement and Optical Characterization for Automotive AR-HUD (8:50-9:10)

Xi Mou (牟希), Hangzhou SanTest Technology Co., Ltd.

8.3 A Micro-LED Based Pixel-Level Optical System: Design and Integration (9:10-9:30)

Yaodong Wu, Shanghai Tianma Microelectronics Co., Ltd.

8.4 High Resolution 3D Augmented Reality Head-up Display Technology with Eye Tracking System (9:30-9:50)

Guiyang Zhang, Wuhan China Star Optoelectronics Technology Co., Ltd.

8.5 High-resolution Automotive Light-field Head-Up Display (9:50-10:10)

HanTsung Hsueh, Zhejiang Chief Technology Co., Ltd.

8.6 Windshield-adaptive Head-up Displays Using Two-dimensional Alvarez Lenses (10:10-10:30)

Haoteng Liu, Sun Yat-sen University

Session 9: Driving Circuit (Display Electronics)

Wednesday, April 1/8:30-10:10/ Meeting Room 102

9.1 A 10-Bit 1280×720 Micro-LED Display Driver (8:30-8:50)

Chih-Wen Lu, Taiwan Tsing Hua University

9.2 An 8-bit 2160-Channel Source Driver IC with Linearity-Improved Digital to Analog Converters for OLED Displays (8:50-9:10)

Byungwha In, DB Globalchip

9.3 Micro-LED Pixel Circuit Using Feedback Structure Based on Double-Gate IGZO TFT for Low Gray Expression (9:10-9:30)

Jinghui Jin, Sungkyunkwan University

9.4 Advanced OTD-Based Pixel Circuits with GOA Design for Low-Power AMOLED Displays (9:30-9:50)

Lei Zhou, South China University of Technology

9.5 A LTPO TFT Gate Driver with Multiple Outputs and Programmable Pulse Width for Ultra-Narrow Bezel AMOLED Displays (9:50-10:10)

Pu Liang, Peking University

Session 10: QLED Mechanism (EMQ-Quantum Dots)

Wednesday, April 1/8:30-10:30/ Meeting Room 101

10.1 *Invited Paper*: Atomistic Mechanisms of Surface Defects and Degradation Pathways in Quantum Dots for Display Applications: A DFT and AIMD Study (8:30-8:50)

Yue Zhang (张悦), Qingdao University of Technology

10.2 *Invited Paper*: Hole Trap Formation in Quantum Dot Light-Emitting Diodes Under Electrical Stress (8:50-9:10)

Quan Niu (牛泉), South China University of Technology

10.3 *Invited Paper*: Water in Quantum-dot Light-emitting Diodes (9:10-9:30)

Yizheng Jin (金一政), Zhejiang University

10.4 Dynamics Analysis of Quantum Dot Light-Emitting Devices Based on Time-Resolved Electroluminescence Technology (9:30-9:50)

Shuai Chang, Shenzhen MSU-BIT University

10.5 Atomic-level Surface Reconstruction of Quantum Dots for Manufacturing Active-Matrix Display (9:50-10:10)

Xingliang Dai, Zhejiang University

10.6 Performance Investigation of Quantum-dot Light-emitting Diodes with Different Structures (10:10-10:30)

Cuixia Yuan, Great Bay University

Session 11: OLED Display - Processing & Driving (OLEDs)

Wednesday, April 1/10:20-12:20/ Felicity Function Room A

11.1 *Invited Paper*: Photoconversion Coating Technology based on Quantum Dots with High PLQY and Colour Purity in OLED Microdisplays (10:20-10:40)

Denis Chausov, Prokhorov General Physics Institute of the Russian Academy of Sciences

11.2 Investigation of Al Plate for Automotive OLED Module (10:40-11:00)

Shuangjun Li, Hefei Visionox Technology Co., Ltd.

11.3 A Customized ASTC-Based Image Compression IP Core for Display Driver Integrated Circuits (11:00-11:20)

Gaobo Yang, Hunan University

11.4 Research on the Design of AMOLED TFT Image Cable Circuit and the Influence of Voltage Signal on the Decrease of Screen Brightness (11:20-11:40)

Jingjing Zhao, Yungu (Gu'an) Technology Co., Ltd.

11.5 Low Damage Sputtering Process Development of MgAg Cathode Electrode (11:40-12:00)

Junsuke Matsuzaki, ULVAC Inc.

11.6 Research on Factors Influencing Display Non-Uniformity in Partial Refresh and Optimization Strategies (12:00-12:20)

Huiming Wang, Hefei Visionox Technology Co., Ltd.

Session 12: OLED - Blue Materials (OLEDs)

Wednesday, April 1/10:20-11:40/ Felicity Function Room B

12.1 *Invited Paper*: Intrametallic Emitters for Deep Blue High Efficient OLEDs (10:20-10:40)

Carsten Rothe, beeOLED

12.2 *Invited Paper*: Molecular Engineering of Emitters for Narrow-Emitting Blue Organic Light-Emitting Diodes (10:40-11:00)

Jun Yeob Lee, Sungkyunkwan University

12.3 *Invited Paper*: Recent Advances in Blue OLED Materials toward High Efficiency and Long Life-time Devices (11:00-11:20)

Yoichi Ikeda, Idemitsu Electronic Materials (China)

12.4 *Invited Paper*: Superbly Efficient and Stable Ultrapure Blue Phosphorescent Organic Light-Emitting Diodes with Tetradentate Pt (II) Complex with Vibration Suppression Effect (11:20-11:40)

Taekyung Kim, Kyung Hee University

Session 13: Micro-LED Light Emission & Extraction (EMQ-MicroLED)

Wednesday, April 1/10:40-12:20/ Felicity Function Room C

13.1 *Invited Paper*: Impacts of Sidewall on the Luminous Characteristics of Micro-LEDs (10:40-11:00)

Weijie Guo (郭伟杰), Xiamen University

13.2 Featuring on TM-polarized Sidewall Emission for AlGaN Deep-Ultraviolet Micro-LED with Enhanced Light Extraction Efficiency (11:00-11:20)

Feng Feng, The Hong Kong University of Science and Technology

13.3 3D Nanowire MicroLED Technology for High-Efficiency, High-Brightness, and Low-Cost AR Displays (11:20-11:40)

Ivan-Christophe Robin, Aledia

13.4 Red-Emitting Quantum Wells in Submicron-Sized Platelets Studied by Low-Temperature Luminescence (11:40-12:00)

Hira Usman, Institute of Nanoscience and Applications, Southern University of Science and Technology

13.5 Monolithic Resonant-Cavity AlGaInP-on-Si Red μ LEDs with Highly Directional Emission (12:00-12:20)

Chuyao Yan, Shandong University

Session 14: Near-Eye Display Elements (VR/AR/MR)

Wednesday, April 1/10:40-12:20/ Fabulous Function Room A

14.1 *Invited Paper*: Micron Pixel Metasurface Liquid Crystal on Silicon (LCoS) for AR displays (10:40-11:00)

Arseniy Kuznetsov, Institute of Materials Research and Engineering, A*STAR (Agency for Science, Technology and Research)

14.2 *Invited Paper*: Glasses-free AR Display and its Challenges (11:00-11:20)

Wen Qiao (乔文), Soochow University

14.3 *Invited Paper*: Study of Human Visual Characteristics in Holographic Near-eye Displays (11:20-11:40)

Zi Wang (王梓), Hefei University of Technology

14.4 *Distinguished Paper*: Studies On a-IGZO TFTs Reliability with Different Light-Shielding-Layer Size for Improvement of Short Channel Device in High PPI VRAR LCD Display Technology (11:40-12:00)

Dandan Sun, BOE CHUANGYUAN Technology Co., Ltd.

14.5 Optimization of Bundled Fiber End-Face Heterostructure for Near-Eye Displays (12:00-12:20)

Yiyang Zheng, Fuzhou University

Session 15: Color Modeling (Applied Vision)

Wednesday, April 1/10:00-11:20/ Fabulous Function Room B

15.1 A Color Image Enhancement Method for Anomalous Trichromats Based on a Deep Learning Approach (10:00-10:20)

Ruiqing Ma, Taiyuan University of Technology

15.2 ICONS: A Universal Colour Communication System for Cross Media Colour Reproduction (10:20-10:40)

Molin Li, Zhejiang University

15.3 *Distinguished Student Paper*: How Reliable is Human Memory Color? A Case Study Based on Multiple Methods and Neural Network Prediction (10:40-11:00)

Zhiyu Chen, Wuhan University

15.4 Benchmarking the Scale Consistency and Uniformity of sUCS for High-Dynamic-Range Color Assessment (11:00-11:20)

Molin Li, Zhejiang University

Session 16: AI for Manufacturing (AI for Imaging and Display)

Wednesday, April 1/10:20-12:20/ Fabulous Function Room C

16.1 *Invited Paper*: Visual Chain-of-Thought Reasoning for Display Industrial Defect Management Based on Vision-Language Models (10:20-10:40)

Haiyang Guo, BOE Technology Group Co., Ltd.

16.2 *Invited Paper*: Artificial Intelligence Architecture with Memristor Synapses for Fast Image Processing (10:40-11:00)

Aliaksandr Smirnov, Belarus Chapter, Belarusian State University of Informatics and Radioelectronics

16.3 A Semi-Supervised-Based Virtual Metrology Method for PSH Estimation (11:00-11:20)

Weixue Huang, BOE Technology Group Co., Ltd.

16.4 A Dual-Tower Transfer Learning Strategy for Precise Classification of Extremely Imbalanced LCD Aging Defect Data (11:20-11:40)

Jing Ba, TCL China Star Optoelectronics Technology Co., Ltd.

16.5 Yield Root Cause Analysis System for Display Panel Production Based on Machine Learning and Big Data Technology (11:40-12:00)

Zijian Cheng, BOE Technology Group Co., Ltd.

16.6 AI-based Layout-to-Image Dataset Generation for Lithography Defect Detection (12:00-12:20)

Yuehua Hu, Korea Institute of Industrial Technology (KITECH)

Session 17: LCD Image Quality (Liquid-Crystal Technology)

Wednesday, April 1/10:20-12:00/ Apollo VIP Room

17.1 *Invited Paper*: A Novel Triple-Gate Pixel Architecture with Horizontal RGB Sub-Pixel Arrangement or High Image Quality and Low Cost (10:20-10:40)

Hongmin Li, Hefei BOE Optoelectronics Technology Co., Ltd.

17.2 *Invited Paper*: Ultra-Low-Power FFS LCDs Using Positive Dielectric Liquid Crystals via Suppressing Flexoelectric Flicker (10:40-11:00)

MinSu Kim, Jeonbuk National University

17.3 Enhancing Luminance Uniformity Across Wavelength and Grayscale for High Display Performance of MLCD (11:00-11:20)

Junyang Nie, TCL China Star Optoelectronics Technology Co., Ltd.

17.4 Novel Low-Power Triple-Gate TFT-LCD Pixel Architecture for Improving Color Shift and Power Consumption (11:20-11:40)

Hongmin Li, Hefei BOE Optoelectronics Technology Co., Ltd.

17.5 *Distinguished Paper*: Transversely Oriented Polyvinyl Alcohol Polarizer for Ultra-Large TFT-LCDs (11:40-12:00)

Puman Huang, TCL China Star Optoelectronics Technology Co., Ltd.

Session 18: HUD & Drive System (Vehicle Display)

Wednesday, April 1/10:40-12:00/ Meeting Room 103

18.1 A Method for 5m Long-distance Transmission between the Cockpit and Field Information Display Module (10:40-11:00)

Sun Ji, Wuhan China Star Optoelectronics Technology Co., Ltd.

18.2 Compact Diffractive Optical Waveguide HUD Imaging Simulation (11:00-11:20)

Liang Zhou, Southeast University

18.3 *Distinguished Student Paper*: Eliminating Sunlight Backflow in AR-HUDs through a Faraday Rotator under the étendue Constraint (11:20-11:40)

Yi Liu, Sun Yat-sen University

18.4 Research on Lightweight Super-Resolution GAN Model on Low-Cost FPGA for Automotive Application (11:40-12:00)

Jiahe Zhang, Southeast University

Session 19: Driving Technology (Display Electronics)

Wednesday, April 1/10:20-12:20/ Meeting Room 102

19.1 *Invited Paper*: Analysis and Optimization of LVDS Eye-diagram in Vehicle Products (10:20-10:40)

Dalei Zhang (张大雷), Mian Yang HKC optoelectronics Technology Co., Ltd.

19.2 A Compensation Scheme for Dark-state Luminance and Chromaticity of AMOLED Displays (10:40-11:00)

Lin Chen, Hefei Visionox Technology Co., Ltd.

19.3 A Novel Design of Passive Continuous-Time Linear Equalizer Circuit for High-Speed Serial Channel (11:00-11:20)

Dongmei Chen, TCL China Star Optoelectronics Technology Co., Ltd.

19.4 Research on the Split-Screen Issue of 8T1C Pixel Circuit OLED Anode Reset (11:20-11:40)

Jie Ling, Hefei Govisionox Technology Co., Ltd.

19.5 A Novel 3T1C Pixel Circuit with Two-Scan Switching for Internal Compensation on High-PPI OLED Displays (11:40-12:00)

Weijing Zeng, TCL China Star Optoelectronics Display Technology Co., Ltd.

19.6 Application Analysis of Swire Protocol in OLED EL Power Chip (12:00-12:20)

Fangyun Liu, Hefei Visionox Technology Co., Ltd.

Session 20: QD Display Applications (EMQ-Quantum Dots)

Wednesday, April 1/10:40-12:20/ Meeting Room 101

20.1 *Invited Paper*: Highly Efficient and Stable Quantum Dot Light-Emitting Diodes for Next-Generation Display Applications (10:40-11:00)

Jiangyong Pan (潘江涌), Nanjing University of Information Science & Technology

20.2 *Invited Paper*: Towards Commercialization: Overcoming Challenges in Ink-Jet Printing of QLEDs (11:00-11:20)

Longjia Wu (吴龙佳), TCL Research

20.3 *Invited Paper*: Quantum Dot Light-emitting Devices for Near-infrared Upconversion Applications (11:20-11:40)

Hailong Hu (胡海龙), Fuzhou University

20.4 *Invited Paper*: Colloidal Quantum Dot-Polymer Blend Approach toward Display and Lighting Applications (11:40-12:00)

Jeongkyun Roh, Pusan National University

20.5 *Distinguished Student Paper*: Research on Material Optimization and Pixel Structure for Micro-LED Quantum Dot Color Conversion (12:00-12:20)

Xinyi Wang, Shanghai University

Session 21: OLED Display - Architectures (OLEDs)

Thursday, April 2/8:30-10:30/ Felicity Function Room A

21.1 *Invited Paper / Distinguished Paper:* 3D-OLED: Displays with Pixels in Three Dimensions (8:30-8:50)

Peter Levermore, Excyton

21.2 *Invited Paper:* Multi-Primary Pathways Toward Wide-Gamut, Metamerism-Resilient Emissive Displays (8:50-9:10)

Zhaoqun Zhou (周照群), UDC

21.3 A Device Architecture for OLED Modules with High-Temperature Color Stability (9:10-9:30)

Hongyu Wang, Hefei Visionox Technology Co., Ltd.

21.4 Transfer Printing for Full-Color and Mask-Free OLED Microdisplays (9:30-9:50)

Guohua Xie, Xiamen University

21.5 Research Progress and Prospect of High Efficiency Light-Emitting Technology for OLED Displays (9:50-10:10)

Yunqiang Yang, Hefei Visionox Technology Co., Ltd.

21.6 COE-Based Low-Reflectivity Interated-Black and High-Brightness Wide-Color-Gamut Display Technology (10:10-10:30)

Xiaojing Liu, Hefei Visionox Technology Co., Ltd.

Session 22: OLED - Charge Injection & Transport Materials (OLEDs)

Thursday, April 2/8:30-10:10/ Felicity Function Room B

22.1 *Invited Paper:* Driving OLED Innovation with Novel Metal-Organic P-Dopants (8:30-8:50)

Julia Stolz, CREDOXYS GmbH

22.2 *Invited Paper:* New Organometallic Electron Injection Layer Materials for Blue OLEDs (8:50-9:10)

Mariusz Bosiak, Noctiluca S.A.

22.3 *Distinguished Paper:* Arylphosphine Oxide Derivative for OLEDs: Exhibiting Robust Stability Under Device Operation & Simulated Evaporation Chamber Conditions (9:10-9:30)

Xuhui Zhu, South China University of Technology

22.4 Ultra-Low Cross Talk P-Dopants with High Transparency Tailored for P-HIL Application (9:30-9:50)

Vladimir Uvarov, Novaled GmbH

22.5 Compounds for OLED at INEOS RAS (9:50-10:10)

Sergey Tokarev, A. N. Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences (INEOS RAS)

Session 23: Micro-LED Pixel Technology (EMQ-MicroLED)

Thursday, April 2/8:30-10:10/ Felicity Function Room C

23.1 *Invited Paper:* Promoted Current Injection in GaInN/GaN Multi-Quantum Nanowires-Based LEDs (8:30-8:50)

Weifang Lu (卢卫芳), Xiamen University

23.2 *Invited Paper:* Scalable 3D Nanowire MicroLED Platform for Next-Generation Direct-View Displays and Data Communication Links (8:50-9:10)

Ivan-Christophe Robin, Aledia

23.3 *Invited Paper:* Enabling MicroLED Supply Chain Innovation via A Glass-Based, Chip-First/Chip-Last Integration Platform (9:10-9:30)

Chia-Hung Tsai (蔡佳宏), Smartkem Ltd.

23.4 *Invited Paper*: Effect of KOH Sidewall Treatment on Blue Micro-LEDs in Hybrid Micro-LED/OLED Full-Color Display Devices (9:30-9:50)

Jie Sun (孙捷), Fuzhou University

23.5 Modeling and Optimization of Micro-LED-Fiber Coupling for Inter-Chip Optical Interconnects (9:50-10:10)

Yuxuan Song, Peking University

Session 24: Vehicle Display Engineering (Vehicle Display)

Thursday, April 2/8:30-10:10/ Meeting Room 103

24.1 *Invited Paper*: Advances in Automotive Displays beyond Mainstream Flat Designs (8:30-8:50)

Kai Hohmann, Aumovio Germany GmbH

24.2 *Invited Paper*: Optimizing Color Reproduction for Automotive Displays Using Quantum Dot Technology (8:50-9:10)

Zhongsheng Luo (罗忠升), Nanosys (Shoei Electronic Material Inc.)

24.3 Research on Improvement of High-Temperature and High-Brightness Crosstalk In-Vehicle Triple Gate Designed Display (9:10-9:30)

Minghang Zhu, InfoVision Optoelectronics (Kunshan) Co., Ltd.

24.4 A Quantitative Evaluation Method for the Risk of White Spots Appearing on Vehicle Display Modules Caused by Vibration Testing (9:30-9:50)

Qianshuang Hu, TCL China Star Optoelectronics Technology Co., Ltd.

24.5 Cover Glasses with High Headform Impact Test Strength for Automotive Displays (9:50-10:10)

Shunei Fukuyama, AGC Inc.

Session 25: Display Structure (Display Electronics)

Thursday, April 2/8:30-10:10/ Meeting Room 102

25.1 *Invited Paper*: 3D Cellular Automata Modeling of Excimer Laser Annealed Amorphous Silicon Surfaces (8:30-8:50)

Chenzhe Li (李辰喆), Hefei Govisionox Technology Co., Ltd.

25.2 A Novel Digital Driving Architecture for Power Minimization in AMOLEDs (8:50-9:10)

Xiangyu Dai, Kunshan Govisionox Optoelectronics Co., Ltd. (Visionox's Affiliated Company)

25.3 A Novel Design of Optimization for Power Distribution Network Based on Machine Learning (9:10-9:30)

Dongmei Chen, TCL China Star Optoelectronics Technology Co., Ltd, Shenzhen, China

25.4 Luminance and Chromaticity Uniformity Compensation Scheme for Low Brightness Scenarios (9:30-9:50)

Shuaizhao Wang, Hefei Visionox Technology Co., Ltd.

25.5 A Low Refresh Rate Display Flicker Improvement Scheme (9:50-10:10)

Chengyuan Li, Hefei Govisionox Optoelectronics Co., Ltd.

Session 26: Perovskite Quantum Dots (EMQ-Quantum Dots)

Thursday, April 2/8:30-10:10/ Meeting Room 101

26.1 *Invited Paper*: Nanopatterning of Perovskite and Organic LEDs via Molecular-Beam Holographic Lithography (8:30-8:50)

Sudhir Kumar, ETH Zurich

26.2 *Invited Paper*: Perovskite Quantum Dots Commercialized in Displays (8:50-9:10)

Samuel Halim, Avantama AG

26.3 Perovskite Quantum Dots Photoresist for Direct Photolithography (9:10-9:30)

Gaoling Yang, Beijing Institute of Technology

26.4 Monolithic Integration of Full-Color Micro-LED with Quantum Dot Color-Conversion Pixels (9:30-9:50)

Ziwei Li, Hunan University

26.5 Multifunctional Crystal Regulation via Guanidinium Thiocyanate-Assistance Enables Efficient Blue Light-Emitting Diodes (9:50-10:10)

Na Jiang, Beijing Jiaotong University

Session 27: OLED Module Technology 1 (OLEDs)

Thursday, April 2/10:40-12:00/ Felicity Function Room A

27.1 Optimization of Sparkle in Display Modules with Anti-Glare Cover Glass (10:40-11:00)

Endong Chang, Hefei GoVisionox Technology Co., Ltd.

27.2 Reducing the Color Shift of Large Angle by Adopting the TP Bias Technology (11:00-11:20)

Meng Jin, Hefei Visionox Technology Co., Ltd.

27.3 Development and Research of Lamination Process with High Specs in Application of Four-Curve OLED Modules (11:20-11:40)

Guofeng Zhang, Wuhan Tianma Microelectronics Co., Ltd.

27.4 Study on Improving OLED Screen Backside Impact Resistance (11:40-12:00)

Zhishuai Jia, Yungu (Gu'an) Technology Co., Ltd. (Visionox's Affiliated Company)

Session 28: OLED - Other Functional Materials (OLEDs)

Thursday, April 2/10:20-12:20/ Felicity Function Room B

28.1 *Invited Paper*: Green Host for High Performance OLEDs (10:20-10:40)

Xinyang Wang (王忻扬), Merck Display Materials (Shanghai) Co., Ltd.

28.2 *Invited Paper*: Heteroatom-Doped Polycyclic Aromatic Hydrocarbons and Their Applications in Organic Light-Emitting Diodes (10:40-11:00)

Wan Pyo Hong, Gachon University

28.3 *Invited Paper*: Ultra-pure Green Top-Emitting OLEDs with LT90 Lifetime over 540000 h at 1000 cd/m² (11:00-11:20)

Guijie Li (李贵杰), Zhejiang University of Technology

28.4 The Enhancement of Color Purity of OLED with Excitonic Polariton Material (11:20-11:40)

Dong Wan Kang, LinkGlobal21

28.5 Low Leakage Current Material for Tandem OLEDs (11:40-12:00)

Zhibin Wang, OTI Lumionics

28.6 Lifetime Improvement by Organic-Doped QD Film in QLED Devices (12:00-12:20)

Xiangnan Song, Suzhou Govisionox Innovation Technology Co., Ltd.

Session 29: Mini & Micro-LED System & Applications (EMQ-MicroLED)

Thursday, April 2/10:20-12:20/ Felicity Function Room C

29.1 *Invited Paper*: Luminance Boosted MicroLED Head-Up Display By “Smart Micro-Lens” Design (10:20-10:40)

Guowei Zha (查国伟), TCL China Star Opto-Electric Technology Limited.

29.2 *Invited Paper*: Research on the Seams between Micro-LED Transparent Display (10:40-11:00)

Qiang Peng (彭强), Chengdu Vistar Optoelectronics Co., Ltd.

29.3 Glass Mini LED-Based Ultra-Thin Backlight Technology Research (11:00-11:20)

Yue Yang, BOE Technology Group Co., Ltd.

29.4 Chip Scale Packaging of Mini-LEDs for Viewing Angle Compression (11:20-11:40)

Weigao Sun, TCL China Star Optoelectronics Technology Co., Ltd.

29.5 Hybrid μ LED-OLED Red Sub-Pixel with ALCC Using Global Regularized Inversion for Stable D65 White Reproduction (11:40-12:00)

Junghoon Kim, LX semicon

29.6 FPGA Drive Architecture for RGB Mini-LED Backlight System (12:00-12:20)

Hao Guo, TCL China Star Optoelectronics Technology Co., Ltd.

Session 30: TFT Backplane Manufacturing (Display Manufacturing)

Thursday, April 2/10:20-12:20/ Meeting Room 103

30.1 *Invited Paper*: High-Performance Indium-Tin-Zinc-Oxide TFTs Fabricated by a Novel ALD Supercycle Process (10:20-10:40)

Honglong Ning (宁洪龙), South China University of Technology

30.2 *Invited Paper*: Flexible Optoelectronic Synapse Transistor Based on the Persistent Photoconductivity Effect of Pr-InZnO (10:40-11:00)

Rihui Yao (姚日晖), South China University of Technology

30.3 Redefining Ultra-Narrow Bottom Bezels through Halftone Mask Process Breakthrough Beyond Fanout Pitch Limits (11:00-11:20)

Yuqi Li, China Star Optoelectronics Semiconductor Display Technology Co., Ltd. Guangzhou, China

30.4 Study on the Impact of Different Isolation Pillar Schemes on Panel Efficiency and OLED Crosstalk (11:20-11:40)

Ao wen Zhang, Visionox (Hefei) Co., Ltd.

30.5 Finetuning Molybdenum-Oxide Targets to Optimize the Behavior of Sputtered Thin Films in TFTs (11:40-12:00)

Zecui Gao, Plansee (Shanghai) High Performance Materials Co.

30.6 Study on the Influence of Different Metal Electrodes on the Mobility of InGaO-Based TFTs and the Breakdown Voltage of Multilayer Insulating Structures (12:00-12:20)

Shan Hu, Sun Yat-Sen University

Session 31: Display Algorithm (Display Electronics)

Thursday, April 2/10:20-12:00/ Meeting Room 102

31.1 *Invited Paper*: Sampled Analog Video Transport - Enhanced Color Reproduction (10:20-10:40)

Alex Henzen, Hyphy USA Inc.

31.2 A Pixel-Wise Color Uniformity Compensation Method for High Refresh Rate LCD Dual-Gate Notebook (10:40-11:00)

Yanhong Wu, BOE Technology Group Co., Ltd.

31.3 Pixel-Level High-Precision IR-Drop Compensation for Multi-Scenario AMOLEDs via Image-Based Luminance Modeling (11:00-11:20)

Mingxuan Chen, BOE Technology Group Co., Ltd.

31.4 A FPGA-Based Real-Time Dynamic Range Adjustment Algorithm for 4K Video Processing (11:20-11:40)

Jian Zhang, Southeast University

31.5 *Distinguished Student Paper*: Lanczos-Based Perception-Enhanced Super-Resolution (LPSR) for Real-Time Mobile Image Enhancement (11:40-12:00)

Chenhao Hu, Southeast University

Session 32: High Resolution Patterning (EMQ-Quantum Dots)

Thursday, April 2/10:20-11:40/ Meeting Room 101

32.1 *Invited Paper*: Direct Photolithography Technique for Full-Color Quantum Dots Display (10:20-10:40)

Shaoyong Lu, BOE Technology Group Co., Ltd.

32.2 High-Resolution Quantum Dot Patterning Technologies and Their Applications in Efficient Light-Emitting Diodes and Displays (10:40-11:00)

Chengzhao Luo, Soochow University

32.3 Photo-Click Chemistry Enables High-Resolution and High-Fidelity Photolithography of Quantum Dots (11:00-11:20)

Chang Gu, Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences

32.4 Research on High Resolution Display Applications of Quantum Dot Light Emitting Devices (11:20-11:40)

Kaiyu Yang, Fuzhou University

Session 33: OLED Module Technology 2 (OLEDs)

Thursday, April 2/13:30-15:10/ Felicity Function Room A

33.1 Delicate Research on the Influence of Shape Morphologies of Adhesive at Bending Area Dedicated to the Development of OLED Narrow Bezel (13:30-13:50)

Guofeng Zhang, Wuhan Tianma Microelectronics Co., Ltd.

33.2 Impact of the Polarizer on Corrosion in AMOLED Displays (13:50-14:10)

Hang Zhang, Hefei Visionox Technology Co., Ltd.

33.3 Universal Analyses of Fogging Phenomenon in Glass Ceramics under High Temperature and High Humidity (14:10-14:30)

Guofeng Zhang, Wuhan Tianma Microelectronics Co., Ltd.

33.4 Research on Thin-Film Technology for Bending of Flexible OLED Modules (14:30-14:50)

Fanzhong Bu, Visionox Technology Inc.

33.5 Modulation of BP Acrylic PSA Modulus for Enhanced Drop Impact Strength of Flexible OLED Panels (14:50-15:10)

Lijia Pan, Xiamen Tianma Display Technology Co., Ltd.

Session 34: High Performance Oxide TFT (Active-Matrix Device)

Thursday, April 2/13:30-15:10/ Felicity Function Room B

34.1 *Invited Paper*: Advanced Control of In-Rich IGO Channels: Compositional Optimization and Nitrogen-Mediated Structural Stabilization via PEALD (13:30-13:50)

Jin-Seong Park, Hanyang University

34.2 *Invited Paper*: Applications for ALD Dielectrics in Full Metal-Oxide Backplane Technology (13:50-14:10)

Dejiu Fan (范德久), Applied Materials Inc.

34.3 Development of 12.7inch 2.8K AMOLED Panel Using Fully High Mobility Oxide TFTs Which Can Realize 240Hz Refresh Rate (14:10-14:30)

Yana Gao, Tianma Microelectronics Co., Ltd.

34.4 Enhanced High Overall Performance of Solution-Processed IGO/IZTO Thin-Film Transistor via Heterogeneous-Bilayer Channel (14:30-14:50)

Meng Xu, Shanghai University

34.5 High Mobility and Excellent Stability of HMO Hybrid TFT for G8.6 Ink-Jet Printing AMOLED Backplane (14:50-15:10)

Jierong Huo, TCL China Star Optoelectronics Technology Co., Ltd.

Session 35: Micro-LED Color Technology (EMQ-MicroLED)

Thursday, April 2/13:30-15:30/ Felicity Function Room C

35.1 *Invited Paper / Distinguished Paper*: GaN-On-Si Single-Chip Full-Color Micro-LED Display (13:30-13:50)

Qian Sun (孙钱), Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO), Chinese Academy of Sciences (CAS)

35.2 *Invited Paper*: Technology Trends in Full-Color Micro-LED Displays for AR the NPQD Monolithic Solution (13:50-14:10)

Chen Chen (陈辰), Saphlux LLC

35.3 Research on Temperature Color Shift for Micro-LED Based on Machine Learning (14:10-14:30)

Yanjun Zhang, Shanghai Tianma Microelectronics Co., Ltd.

35.4 Patterning Technology of Perovskite Quantum Dots for Micro-LED Displays (14:30-14:50)

Shuli Wang, Xiamen University

35.5 Fabrication of Color-Conversion Nanostructures Compatible with Mini-LED and Micro-LED Displays Using Nanoimprint Lithography (14:50-15:10)

Yalin Lu, Beijing Jiaotong University

35.6 Photon Recycling Effect in Color-Conversion Micro-LED Displays (15:10-15:30)

Qing Zhao, Shenzhen University

Session 36: Metaverse & 3D Content Generation (VR/AR/MR)

Thursday, April 2/13:30-15:10/ Fabulous Function Room A

36.1 *Invited Paper*: Virtual and Augmented Reality for Stem Education and Teachers Training (13:30-13:50)

Andrey A. Belyaev, State University of Education

36.2 *Invited Paper*: A Method for Improving Micro-Gesture Technology Utilizing Distal-Joint Attention and Loss-Weighting Scheme (13:50-14:10)

TK PEN (潘仲光), ChiMeta Limited

36.3 *Invited Paper*: Advancing from 3D Displays to Computer-Generated Holography at NTUST (14:10-14:30)

Chien-Yu Chen (陈建宇), Taiwan University of Science and Technology

36.4 Research on Inverted Tandem Green OLED for AR (14:30-14:50)

Qiang Liu, Yungu (Gu'an) Technology Co., Ltd.

36.5 Crosstalk-Free Content Generation Method for Light Field 3D Displays (14:50-15:10)

Yijian Liu, Beihang University

Session 37: Visual Health (Applied Vision)

Thursday, April 2/13:30-14:50/ Fabulous Function Room B

37.1 *Invited Paper / Distinguished Paper*: Adaptive Dominant Eye-Based Binocular Vision for Virtual Reality (13:30-13:50)

Chaoping Chen (陈超平), Shanghai Jiao Tong University

37.2 From Parameters to Experience An Exploration of the Theoretical Path for Subjective Evaluation of the Eye-Protection Mode on Mobile Phones (13:50-14:10)

Yang Yi, China National Institute of Standardization

37.3 Influence of Display Spectral Similarity to Natural Light on Visual Search Performance (14:10-14:30)

Yunhong Zhang, China National Institute of Standardization

37.4 Light Field Displays Correcting Early-Stage Cataract by Engineering Vectorial Beams (14:30-14:50)

Jie Tang, Sun Yat-sen University

Session 38: AI for Display R&D 1 (AI for Imaging and Display)

Thursday, April 2/13:30-14:50/ Fabulous Function Room C

38.1 *Invited Paper*: Intelligent Screening and Design of OLED Luminescent Materials (13:30-13:50)

Dandan Song (宋丹丹), Beijing Jiaotong University

38.2 Multi-Modal Pre-Training Framework for Molecular Property Prediction (13:50-14:10)

Min Zeng, BOE Technology Group Co., Ltd.

38.3 Enhancing Chemical Capabilities of Large Language Models for OLED Materials Design (14:10-14:30)

Tsun-Hin Cheung, TCL AI Lab

38.4 Performance Analysis of Rare-Earth Doped Oxide Thin-Film Transistors Using Neural Network Method (14:30-14:50)

Zengyi Peng, South China University of Technology

Session 39: LCD New Materials & Application (Liquid-Crystal Technology)

Thursday, April 2/13:30-15:30/ Apollo VIP Room

39.1 *Invited Paper*: Ferroelectric Liquid Crystals Material Engineering and Application (13:30-13:50)

Abhishek Kumar Srivastava, The Hong Kong University of Science and Technology

39.2 *Invited Paper*: The Fundamental Role of Anisotropy, Self-Organizing Systems in the Development of New Displays and Devices (13:50-14:10)

Vladimir Bezborodov, Belarusian State Technological University

39.3 *Invited Paper*: Typical and Untypical Electric Responses in the Emerging Ferroelectric Nematic Liquid Crystals (14:10-14:30)

Satoshi Aya, South China University of Technology

39.4 Liquid Crystal Photoalignment on Azodye Nanolayers for New Liquid Crystal Devices (14:30-14:50)

Vladimir Chigrinov, The Hong Kong University of Science and Technology

39.5 Novel Liquid Crystal Materials for Achieving the Shortest UV2 Process of Polymer-Stabilized Vertically Aligned Liquid Crystal Displays (14:50-15:10)

Yali Liu, TCL China Star Optoelectronics Technology Co., Ltd.

39.6 Research on Dye-Doped Liquid Crystal Dimming Technology for Electronic Neutral Density Filter (15:10-15:30)

Xiaoqian Ju, Beijing BOE SINCE Technology Co., Ltd.

Session 40: Display Materials and Components 1 (Display Manufacturing)

Thursday, April 2/13:30-14:50/ Meeting Room 103

40.1 Research and Enhancement of Anti-Static Performance of Glass Cover Plates (13:30-13:50)

Shuai Chen, Yungu (Gu'an) Technology Co., Ltd.

40.2 Nanoscale Degradation Study of the Optically Clear Adhesive (OCA) (13:50-14:10)

Jiajun Lin, Exponent Science and Technology Consulting Co., Ltd.

40.3 Precision Control of Organic Optical Film Taper Angle for Flexible Display Integration (14:10-14:30)

Dongliang Yu, Hefei Govisionox Technology Co., Ltd.

40.4 Stamping Application and Structural Optimization of Post-Consumer Recycled (PCR) Material Backcovers (14:30-14:50)

Zihan Wang, TCL China Star Optoelectronics Technology Co., Ltd.

Session 41: Display Integration (Display Electronics)

Thursday, April 2/13:30-14:50/ Meeting Room 102

41.1 *Invited Paper*: From GMSL to OpenGMSL: Enabling Next-Generation Automotive Display Systems through Standards and Innovation (13:30-13:50)

Geir Ostrem, Analog Devices

41.2 *Invited Paper*: Flexible and Stretchable Synaptic Transistors for Mimicking Cognition and Neuromorphic Computing (13:50-14:10)

Min Zhang (张敏), The Chinese University of Hong Kong, Shenzhen

41.3 A Compensation Solution for Display In-Panel Uniformity of EL Power System (14:10-14:30)

Jinxin Wei, TCL China Star Optoelectronics Technology Corporation

41.4 An Efficiency Optimization Solution for ELIC (14:30-14:50)

Zhisong Sun, Kunshan Govisionox Optoelectronics Co., Ltd.

Session 42: Quantum Dots Materials (EMQ-Quantum Dots)

Thursday, April 2/13:30-15:50/ Meeting Room 101

42.1 *Invited Paper*: Commercial Readiness of High-Performance, Cadmium-Free Quantum Dot Ink for MicroLED and QD-OLED Color Conversion Applications (13:30-13:50)

Kim De Nolf, QustomDot BV

42.2 *Invited Paper*: Unraveling Defects in NiO-Based Hole Transport Materials for Efficient Quantum Dot Electroluminescent Devices (13:50-14:10)

Jaehoon Lim, Sungkyunkwan University

42.3 Stable and Highly Efficient InGaP Quantum Dots for Display Device Applications (14:10-14:30)

June-hyuk Jung, Samsung Display Company

42.4 Colloidal Quantum Well Light-Emitting Diodes (14:30-14:50)

Baiquan Liu, Sun Yat-sen University

42.5 Analyzing the Bandwidth of QLEDs through Impedance Spectroscopy (14:50-15:10)

Siqi Jia, Institute of Advanced Displays and Imaging, Henan Academy of Science

42.6 Electric Field Dependent Carrier Mobility of Quantum Dots Film (15:10-15:30)

Shipei Sun, Beijing Institute of Technology

42.7 Efficient and Stable Top-Emitting Quantum Dot Light-Emitting Diode Enabled by Self-Assembled Monolayer Interface Engineering (15:30-15:50)

Yiduo Wang, Guangxi University

Session 43: OLED - Simulations 1 (OLEDs)

Thursday, April 2/15:20-17:20/ Felicity Function Room A

43.1 A Dual-Function Interlayer Enabling Time-Multiplexed OLED Emission and NIR Sensing via Optical-Mode Modeling (15:20-15:40)

Yaxin Tang, TCL China Star Optoelectronics Technology Co., Ltd.

43.2 Accelerating OLED Design: Integrating Machine Learning and Physics-Based Simulation (15:40-16:00)

Hadi Abroshan, Schrodinger Inc.

43.3 Exploring the Flow and Leveling Behavior of Inkjet Printing in Narrow Emission Areas for High-Resolution OLEDs (16:00-16:20)

Mudan Chen, Kunshan Govisionox Optoelectronics Co., Ltd. (Visionox's Affiliated Company)

43.4 A Power-Saving Algorithm for Adaptive Color Adjustment on OLED Display and Its Hardware Implement (16:20-16:40)

Ruixin Yan, ESWIN Computing Technology

43.5 *Distinguished Student Paper*: A Physics-Based Compact Modeling Framework for OLEDs: Capacitance Analysis, Prediction, and Application (16:40-17:00)

Yujia Gong, Peking University

43.6 DFT-Enhanced Machine Learning for Accurate PLQY Prediction and Inverse Design of Novel MR-TADF Materials (17:00-17:20)

Haochen Shi, Beijing Jiaotong University

Session 44: Structure Engineering for TFTs (Active-Matrix Device)

Thursday, April 2/15:20-17:00/ Felicity Function Room B

44.1 A Novel Dual-Patterning Process for High-PPI OLED Displays Utilizing Organic Layer Structuring with Optimized Taper Angles and Dry Etching (15:20-15:40)

Chuanzhi Xu, Hefei Visionox Technology Co., Ltd.

44.2 Improving the Large-Area Uniformity and Performance of A-IGZO Vertical TFTs (15:40-16:00)

Chen Shen, TCL China Star Optoelectronics Technology Co., Ltd.

44.3 The Impact of Polysilicon Taper Angle on the Electric Characteristics of Low-Temperature Polysilicon Thin-Film Transistors and Image Sticking Performance of AMOLED (16:00-16:20)

Mengmeng Hu, Visionox Technology Inc.

44.4 Analysis of LTPO Inverter with Double-Gate Oxide TFT Structure for Backplane Display Circuits (16:20-16:40)

Dayun Li, Sungkyunkwan University

44.5 Enhancement of Persistent Photoconductive Effect in IGZO TFTs Passivated by MoO_x: Ta Films (16:40-17:00)

Yongliang Chen, Shanghai Jiao Tong University

Session 45: Micro-LED Displays (EMQ-MicroLED)

Thursday, April 2/15:40-17:20/ Felicity Function Room C

45.1 *Invited Paper*: Micro-QLED for AR Display: Challenges and Chances (15:40-16:00)

Haizheng Zhong (钟海政), Beijing Institute of Technology

45.2 *Invited Paper*: The Potential and Challenges of Transparent Micro LED Displays (16:00-16:20)

Chiahao Tsai (蔡嘉豪), Innolux Corporation

45.3 Borderless μ LED Transparent Display (16:20-16:40)

Fancheng Liu, China Star Optoelectronics Technology Co., Ltd.

45.4 Enhancing the Contrast Ratio of Monolithically Integrated Micro-LED Display Device (16:40-17:00)

Xiaodan Wei, Beijing Yishixin Technology Development Co., Ltd.

45.5 Micro-LED Displays with Progressive Quaternary Digital PWM Using Double-Gate Structure (17:00-17:20)

Dayun Li, Sungkyunkwan University

Session 46: Display Methodology (VR/AR/MR)

Thursday, April 2/15:20-17:20/ Fabulous Function Room A

46.1 *Invited Paper*: Benefits of Multi-Apertures in a Light-Field Display (15:20-15:40)

Zong Qin (秦宗), Sun Yat-Sen University

46.2 *Invited Paper*: Displays in STEM Education (15:40-16:00)

Iakovlev Vladislav, State University of Education

46.3 *Distinguished Paper*: Prospective Wearable Display Glasses Built-In with Terahertz Wireless Communications (16:00-16:20)

Darwin Hu, Phasereality Laboratory, Sysview Technology, Inc.

46.4 Systematic Simulation and Optimization of Waveguide Display with An Efficient Ray Tracing Platform (16:20-16:40)

Jianghao Xiong, Beijing Institute of Technology

46.5 Colorimetric Characterization of See-Through Near-Eye Displays (16:40-17:00)

Tianxing Zhu, Instrument Systems GmbH

46.6 Compact Holographic Waveguide Display Architecture Optimized by CITL (17:00-17:20)

Weixian Chen, Shanghai Jiaotong University

Session 47: Visual Fatigue (Applied Vision)

Thursday, April 2/15:00-16:40/ Fabulous Function Room B

47.1 *Invited Paper*: The Effect of Different PWM Settings on Visual Fatigue under Different Luminance Levels on Mobile Displays (15:00-15:20)

Fang Hou (侯方), Eye Hospital of Wenzhou Medical University

47.2 *Invited Paper*: From Pixels to Photoreceptors: Bio-Informed Deep Learning for Visual Discomfort Assessment (15:20-15:40)

Yunyang Shi (史韞杨), Nanjing Technology University

47.3 Assessment of Visual Fatigue in 2D and 3D Displays Using Graph-Theoretic Analysis of Global Functional Connectivity (15:40-16:00)

Lixiu Jia, Nanjing Institute of Technology

47.4 Neural Dynamics of Motion Sickness in In-Vehicle Movie Watching Scenarios (16:00-16:20)

Si Feng, China National Institute of Standardization

47.5 Parameter Optimization for Visual Comfort and Reading Efficiency A Systematic Investigation Using Subjective and Objective Measures (16:20-16:40)

Zhenzhen Li, Zhejiang University

Session 48: AI for Display R&D 2 (AI for Imaging and Display)

Thursday, April 2/15:00-16:20/ Fabulous Function Room C

48.1 *Invited Paper*: AI-Driven Innovations in R&D and Production of Display Industry: A Comprehensive Review of Material Design, Device Fabrication, Defect Detection, and Compensation Technologies (15:00-15:20)

Bo-ru Yang (杨柏儒), Sun Yat-Sen University

48.2 Color Temperature Uniformity Correction for LCD Screens Based on AI and FPGA (15:20-15:40)

Zheyuan Song, BOE Technology Group Co., Ltd.

48.3 An Automated Compensation Method for Fine Stripes of LCD Modules Based on Computer Vision (15:40-16:00)

Yingjie Li, BOE Technology Group Co., Ltd.

48.4 *Distinguished Student Paper*: AI-Algorithm-Driven Automated Layout Generation Method for Flat Panel Display with High Aperture-Ratio and Charging-Ratio (16:00-16:20)

Haodong Tang, Peking University

Session 49: LCD Process Development (Liquid-Crystal Technology)

Thursday, April 2/15:40-17:00/ Apollo VIP Room

49.1 Study on the Analysis and Improvement of Line Image Sticking in TFT-LCD Based on VCOM Coupling Mechanism (15:40-16:00)

Yingmeng Miao, Beijing BOE Display Technology Co., Ltd.

49.2 Research on Taper Process Improvement of Negative-Tone Color Photoresist with High Pigment Concentration System (16:00-16:20)

Ji Li, TCL China Star Optoelectronics Technology Co., Ltd.

49.3 Enhancement of ESD Performance in Low-Reflectance Displays Based on BITO-Skip Architecture (16:20-16:40)

Boyu Ren, Wuhan BOE Optoelectronics Technology Co., Ltd.

49.4 Improvement of Dark Patches Mura on Curved Gaming Monitors (16:40-17:00)

Guining Reng, Suzhou China Star Optoelectronics Technology Co., Ltd.

Session 50: Display Materials and Components 2 (Display Manufacturing)

Thursday, April 2/15:00-16:20/ Meeting Room 103

50.1 *Invited Paper*: A Study on Low-Brightness Color Shift and Mura in AMOLED LTPO Displays under Full DC Dimming-Challenges, Modeling, Mitigation (15:00-15:20)

Xinquan Chen (陈心全), Hefei Visionox Technology Co., Ltd.

50.2 *Invited Paper*: Eye Care Films for Displays: Converting Linear Polarization to Circular or Natural Light (15:20-15:40)

Xingzhou Tu (涂醒洲), Rayboch

50.3 Introduction to the Value of 20um-Thick Fine Metal Mask (15:40-16:00)

Xiaoding Xia, Zhejiang Zhongling Technology Co., Ltd.

50.4 Study on Factors Affecting the Reflectance of Hard-Coating Low-Reflective Films (16:00-16:20)

Ping Liang, TCL China Star Optoelectronics Technology Co., Ltd.

Session 51: Driving Technology for OLED (Display Electronics)

Thursday, April 2/15:00-16:40/ Meeting Room 102

51.1 DSC Decoding Optimization for AMOLED Application (15:00-15:20)

Hsueh-Yen Yang, Galaxy Core Microelectronics

51.2 Research on an Optimization Method for Low-Frequency Flicker in AMOLED Displays Based on an Adaptive Timing Algorithm (15:20-15:40)

Yong Pei, Kunshan Govisionox Optoelectronics Co., Ltd.

51.3 Research on Dynamic OBS Solution for DTFT Based on Different Gray Scales in OLED Panels (15:40-16:00)

Qiangqiang Song, Hefei Govisionox Optoelectronics Co., Ltd.

51.4 Research on Optimization Methods for Brightness Transition in AMOLED Screen Mode Switching (16:00-16:20)

Yongbin Yang, Kunshan Govisionox Optoelectronics Co., Ltd. (Visionox's Affiliated Company)

51.5 Research on Optimization of Low-Brightness Screen Flicker (SVM) in AMOLED Modules (16:20-16:40)

Weiwei Pan, Hefei Visionox Technology Co., Ltd.

Session 52: Performance Enhancement (Display Application)

Thursday, April 2/15:00-16:20/ Meeting Room 101

52.1 Methods to Improve the Contrast Ratio as Defined by Display Specification for Automotive Application (15:00-15:20)

Jimin Tang, Infovision Optoelectronics (Kunshan) Co., Ltd.

52.2 Brand-New AIE Material for Eye-Friendly Screens with Natural Light-Like Spectrum (15:20-15:40)

Yi Feng, TCL China Star Optoelectronics Technology Co., Ltd.

52.3 Study of Factors Affecting the Antistatic Performance of AMOLED Display (15:40-16:00)

Yun Chen, Yungu (Gu'an) Technology Co., Ltd. (Visionox' s Affiliated Company)

52.4 A Four-Ways Viewing Angle Controllable Liquid Crystal Display Technology with Dual Cell Design (16:00-16:20)

Tao Liu, Infovision Optoelectronics (Kunshan) Co., Ltd.

Session 53: OLED - Simulations 2 (OLEDs)

Thursday, April 2/17:30-19:10/ Felicity Function Room A

53.1 Assisting OLED Material Development Based on Molecular Generation and Machine Learning Prediction (17:30-17:50)

Lu Wang, Beijing Eternal Material Technology Co., Ltd.

53.2 Improvement of FOV in OLED Device Design via Optical Simulation (17:50-18:10)

Min Zou, Hefei Visionox Technology Co., Ltd.

53.3 The Improvement of the Angular Characteristics of OLED with Micro Lens Array (18:10-18:30)

Dong Wan Kang, LinkGlobal21

53.4 Understanding Physical Mechanism of Realistic OLED Stacks by 3D Kinetic Monte Carlo Simulations (18:30-18:50)

Feilong Liu, South China Normal University

53.5 Mitigation and Optimization of AMOLED HBM High-Brightness Thermal Burn-In with Mechanistic Insight Elucidation via Global IR Drop Simulation (18:50-19:10)

Hao Dong, Hefei Visionox Technology Co., Ltd.

Session 54: Printed TFT and Sensors (Active-Matrix Device)

Thursday, April 2/17:10-19:10/ Felicity Function Room B

54.1 *Invited Paper*: Integrated Flexible Printed Carbon Nanotube Thin-Film Transistors as an Active-Matrix Backplane for E-Paper Displays (17:10-17:30)

Jianwen Zhao (赵建文), Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences

54.2 *Invited Paper*: Oxide Thin-Film Transistors as Switching, Driving and Sensing Elements in Active-matrix Backplanes (17:30-17:50)

Pedro Barquinha, NOVA FCT

54.3 *Invited Paper*: Solution Processing of High-Performance Inorganic and Hybrid Materials for Large Area Electronics (17:50-18:10)

Myung-Gil Kim, Sungkyunkwan University

54.4 Vertically-Stacked 2T1C Printed Active-Matrix Backplane for High-Aperture Active-Matrix OLED Displays (18:10-18:30)

Sungjune Jung, Pohang University of Science and Technology

54.5 *Distinguished Student Paper*: Large-Area Complementary Organic-Inorganic Hybrid TFT Technology for Integrated On-Panel Computing in Immersive Display Systems (18:30-18:50)

Zhengyang Hu, Shanghai Jiaotong University

54.6 Miniaturized and Environmentally Friendly InP Quantum Dots /a-IGZO Phototransistors with High Detectivity and Tunable Photoresponse Performance (18:50-19:10)

Jiaxin Yang, Peking University

Session 55: Mass Transfer, Bonding & Repair (EMQ-MicroLED)

Thursday, April 2/17:30-19:20/ Felicity Function Room C

55.1 *Invited Paper*: A Holistic Approach to Deterministic Massive Transfer (17:30-17:50)

Makarem Hussein, LuxNour Technologies

55.2 *Invited Paper*: Detection and Repair Solutions for Achieving 100% Pixel Yield in Micro-LED Displays (17:50-18:10)

Gang Feng (冯刚), Chengdu Vistar Optoelectronics Co., Ltd.

55.3 *Invited Paper*: Different MicroLED Transfer Technologies: Potential and Challenges (18:10-18:30)

Reza Chaji, VueReal

55.4 *Invited Paper*: Micro Transfer Printing Technologies toward the Assembly and Repair of Micro LED Modules (18:30-18:40)

Changhong Cao (曹长宏), McGill University

55.5 High-Yield Fabrication of Micro-LED Displays Based Advanced Laser Bonding and Mass Transfer (18:40-19:00)

Wenya Tian, BOE TECHNOLOGY GROUP CO., LTD.

55.6 High-Resolution Patterning of Fluorescent Films by Femtosecond Laser-Induced Forward Transfer (19:00-19:20)

Yuefeng Liu, Jilin University

Session 56: Micro-Display Technology (VR/AR/MR)

Thursday, April 2/17:30-18:50/ Fabulous Function Room A

56.1 *Invited Paper*: Microdisplay on Silicon Technology and Its Application of Light Field Holography (17:30-17:50)

Jun Xia (夏军), Southeast University

56.2 AI-Driven Enhancement of MAI for LCD-Based XR Displays (17:50-18:10)

Jing Ba, TCL China Star Optoelectronics Technology Co., Ltd.

56.3 High-Performance Micro-Cavity White-OLED Technology for 1,500ppi Real RGB Glass-Based VR Display (18:10-18:30)

Wenfeng Song, Beijing Visionox Technology Co., Ltd.

56.4 Mask Compensation Optimization Method for High-Step Topography in Microdisplay Panel Design (18:30-18:50)

Hejing Sun, TCL Star Optoelectronics Technology Co., Ltd.

Session 57: Brightness Perception (Applied Vision)

Thursday, April 2/16:50-18:10/ Fabulous Function Room B

57.1 Ambient Light Adaptive Gamma: Ambient Light Management Solution Beyond AR/AG (16:50-17:10)

Shengtao Zhu, Shanghai Tianma Microelectronics Co., Ltd.

57.2 A Perceptual Brightness Evaluation Tool for Displays Applicable to Different Scenarios (17:10-17:30)

Yueyuan Zhang, Southeast University

57.3 Effects of Mobile Phone Luminance Adjustment Strategies on Visual Comfort under Indoor Lights-Off Conditions (17:30-17:50)

Lan He, Southeast University

57.4 The Phantom Array Effect on Mobile Phones (17:50-18:10)

Huimin Chen, Southeast University

Session 58: AI for Novel Applications (AI for Imaging and Display)

Thursday, April 2/16:30-18:30/ Fabulous Function Room C

58.1 *Invited Paper*: On-Device AI: Gaussian-Sigmoid Transistors, Light-Driven Spikes, and Intelligent Risk Sensors (16:30-16:50)

Hocheon Yoo, Hanyang University

58.2 *Invited Paper*: Research on a Highly Robust Deep Learning Classification Model for Fine-Grained Industrial Surface Defect Detection (16:50-17:10)

Qinhao Piao, BOE Technology Group Co., Ltd.

58.3 *Invited Paper*: Complex Hologram Encoding Method for Holographic 3D Display (17:10-17:30)

Shufeng Lin (林述锋), Beijing University of Technology

58.4 Fine-Grained Action Detection in Visual HCI with Spatial Mask Video Foundation Models (17:30-17:50)

Haiyang Guo, BOE Technology Group Co., Ltd.

58.5 Simulation and Optimization Design for Backside Rigidity Testing of Notebook Module (17:50-18:10)

Cen Yi, TCL China Star Optoelectronics Technology Co., Ltd.

58.6 Process-Controllable Lithography Simulation Based on Flow Matching Generative Model (18:10-18:30)

Qiao Xu, BOE Technology Group Co., Ltd.

Session 59: Emerging LC Technology (Liquid-Crystal Technology)

Thursday, April 2/17:10-18:50/ Apollo VIP Room

59.1 *Invited Paper*: Actively Tunable Liquid Crystal Elastomer Terahertz/Microwave Metasurface (17:10-17:30)

Dan Luo (罗丹), Southern University of Science and Technology

59.2 *Invited Paper*: Enhancing Liquid Crystal Display Performance: From Second-Scale to Nanosecond Response Times (17:30-17:50)

Valeri Lapanik, Institute of Applied Physical Problems

59.3 *Invited Paper*: Fast Switchable Polarization Interference Filter Using Fast Switchable Liquid Crystal (17:50-18:10)

Zhibo Sun (孙誌博), The Hong Kong University of Science and Technology

59.4 *Invited Paper*: Generation and Modulation of High-Dissymmetry Circularly Polarized Luminescence (18:10-18:30)

YanJun Liu (刘言军), Southern University of Science and Technology

59.5 Automating Liquid Crystal Analysis Using Artificial Intelligence (18:30-18:50)

Giorgio Manzoni, The Hong Kong University of Science and Technology

Session 60: Optoelectronic Device Manufacturing - OLED (Display Manufacturing)

Thursday, April 2/16:30-18:30/ Meeting Room 103

60.1 OLED Display Cutting-Using a Deep-UV Laser and Large Scan Field Optics to Improve the Edge Quality and Avoid Delamination in Foldable Displays (16:30-16:50)

Oliver Haupt, Coherent Corp.

60.2 Research on Residual Characteristics of Low-Temperature Curable Black Matrix for COE Technology Applied in OLED Display (16:50-17:10)

Weikang Xiao, Yungu (Gu'an) Technology Co., Ltd. (Visionox' s Affiliated Company)

60.3 Design and Fabrication of High-Performance Transparent Conductive Electrode (17:10-17:30)

Leah Yang, TCL China Star Optoelectronics Display Technology Co., Ltd.

60.4 Research Progress on the Impact of Plasma Treatment on the Luminous Efficiency of OLED Displays (17:30-17:50)

Yunqiang Yang, Hefei Visionox Technology Co., Ltd.

60.5 Cathode Patterning by Photolithography (17:50-18:10)

Chuanxiang Xu, BOE Technology Group Co., Ltd.

60.6 Failure Mechanism and Material System Collaborative optimization of AMOLED Modules Under Back Impact (18:10-18:30)

Yaling Wang, Yungu (Gu'an)Technology Co., Ltd. (Visionox)

Session 61: Novel Display System Technology 1 (Display System)

Thursday, April 2/16:50-18:30/ Meeting Room 102

61.1 *Invited Paper*: A Variable Refresh Rate Technology and Driving Scheme (16:50-17:10)

Yuqing Wang (王玉青), Hefei Govisionox Optoelectronics Co., Ltd.

61.2 Novel Structure Design for Mitigating Horizontal Stripe Mura in Display at Wide Viewing Angle (17:10-17:30)

Zhicong Zhai, Hefei Visionox Technology Co., Ltd.

61.3 Implementation of a Light Field Display for Personalized Content in Multi-Viewer Settings Based on Vector Pixel Scanning Technology (17:30-17:50)

Runshen Lu, Faith Billion Technology Development Limited

61.4 A Novel Approach to Natural Light Film for Eye-Protective Displays (17:50-18:10)

Ji Li, TCL China Star Optoelectronics Technology Co., Ltd.

61.5 An AI Technology Anti-Photography System for Display Terminals in Conference Scenarios (18:10-18:30)

Yimeng Ma, BOE Technology Group Co., Ltd.

Session 62: 3D and Sensors (Display Application)

Thursday, April 2/16:30-17:50/ Meeting Room 101

62.1 Novel View Synthesis for 3D Video Communication System (16:30-16:50)

Siyang Ma, BOE Technology Group Co., Ltd.

62.2 High-Precision Eye Tracking System Based on the Kalman Prediction (16:50-17:10)

Jinhui Hua, Shanghai Tianma Microelectronics Co., Ltd.

62.3 A Polarization-Multiplexed Heterogeneous Microlens Array Enabling Light Field Display with Natural Defocus Blur (17:10-17:30)

Yifan Ding, Sun Yat-Sen University

62.4 Portable Light-Field AR Display for In-Situ 3D Ultrasound Guidance in Emergency Care (17:30-17:50)

Yutong Wu, Tsinghua University

Session 63: OLED - Device Physics (OLEDs)

Friday, April 3/8:30-10:10/ Felicity Function Room A

63.1 *Invited Paper*: High Performance pTSF Devices to Meet the Demand for Wide Color Gamut (8:30-8:50)

Guomeng Li (李国孟), Beijing Visionox Technology Co., Ltd.

63.2 *Invited Paper*: Impact of Excited State on Efficiency Roll off in OLEDs (8:50-9:10)

Man Chung Tang (邓敏聪), Tsinghua University

63.3 *Invited Paper*: Fabrication of Plasmonic Printed OLEDs (9:10-9:30)

Spyros Kassavetis, Aristotle University of Thessaloniki

63.4 An Universal approach to Minimizing the Ratio of Harmful Blue Light in OLEDs by Modification of POL Structure (9:30-9:50)

Hui Chen, Tianma Microelectronics Co., Ltd.

63.5 Transient Electroluminescence as a Unified Probe of Charge Transport and Recombination Dynamics in OLEDs (9:50-10:10)

Jeong-Hwan Lee, Inha University

Session 64: Channel Engineering for Oxide TFTs (Active-Matrix Device)

Friday, April 3/8:30-10:30/ Felicity Function Room B

64.1 *Invited Paper*: Functional Al₂O₃ Interfaces for Contact Improvement and Plasma Damage Protection in IGZO TFTs (8:30-8:50)

Soo-Yeon Lee, Seoul National University

64.2 *Distinguished Paper*: The Negative Bias Temperature Illumination Stress Mechanism of Top Gate Self Aligned Amorphous Oxide Semiconductor Thin Film Transistors (8:50-9:10)

Haoxiong Zhang, BOE Technology Group Co., Ltd.

64.3 LTPS TFT Taper Region Characterization Method and Its Application (9:10-9:30)

Weibin Zhang, Hefei Visionox Technology Co., Ltd.

64.4 Improved Long-Term Reliability of IGZO TFTs with Sol-Gel Magnesium Oxide Passivation (9:30-9:50)

Hanzhi Huang, Sungkyunkwan University

64.5 Optimizing Dual-Gate ITZO TFT Performance by Tuning Oxygen Plasma Time in Plasma-Enhanced Atomic Layer Deposition (9:50-10:10)

Tan Zhang, Shandong University

64.6 Enhanced Stability of AOS TFTs via Hydrogen Regulation of Gate Insulator (10:10-10:30)

Yuchun Zhong, Peking University

Session 65: Holographic Display Elements (VR/AR/MR)

Friday, April 3/8:30-10:10/ Fabulous Function Room A

65.1 *Invited Paper*: Application of Holographic Optical Elements in Near-Eye Display (8:30-8:50)

Juan Liu (刘娟), Beijing Institute of Technology

65.2 *Invited Paper*: Photopolymer-Based 2D Exit Pupil Expansion Volume Holographic Waveguide (8:50-9:10)

Chengzhe Chai (柴诚哲), Yongjiang Laboratory

65.3 Augmented-Reality Motorcycle Helmet Based on a Synergy of Holographic Approach and Laser-Beam Scanning Technology (9:10-9:30)

Sergei Ivanov, Emerging Technology Research Center, XPANCEO

65.4 High-Efficiency 2D Exit Pupil Expansion Waveguide Display System Based on Ultra-Broadband Polarization Volume Gratings (9:30-9:50)

Lili Liu, Southeast University

65.5 Expanding the Field of View of Light-Field Displays Using a Quasi-telecentric Pancake Lens (9:50-10:10)

Qimeng Wang, Sun Yat-sen University

Session 66: Display Measurement Methods - High-Dynamic Range and Wide Color Gamut Displays (Display Measurement)

Friday, April 3/8:30-10:10/ Fabulous Function Room B

66.1 *Invited Paper*: Characterization and Measurement Methods for Color Gamut of Displays Under Ambient Light (8:30-8:50)

Li Song (宋立), Everfine Corporation

66.2 *Invited Paper*: A Method for Evaluating CR under Ambient Light Conditions (8:50-9:10)

Lingdan Bo, BOE Technology Group Co., Ltd.

66.3 Multiple Color Matching Function 2D Colorimetry (9:10-9:30)

Andreas Liebel, Instrument Systems GmbH

66.4 Characterization of Factors Influencing the Measurement Results of Imaging Luminance Measuring Devices (ILMDs) (9:30-9:50)

Zeyuan Lou, Light-All Co., Ltd.

66.5 Perceptually Optimized Characterization for Displays using Sparse Color Sampling and sUCS (9:50-10:10)

Miaosen Zhou, Zhejiang University

Session 67: AI for Visualization and Graphics (AI for Imaging and Display)

Friday, April 3/8:30-9:50/ Fabulous Function Room C

67.1 *Invited Paper*: Perception-Oriented Stereo Matching and Scene Understanding (8:30-8:50)

Ying Gao (高颖), Qingdao University of Science and Technology

67.2 A Method for Generating New Viewpoints in Monocular Images Based on Diffusion Models (8:50-9:10)

Yingdong Gu, BOE Technology Group Co., Ltd.

67.3 DWvs: Depth-Guided Image Warping and Hole Filling for Novel View Synthesis (9:10-9:30)

Haozhan Wei, Southern University of Science and Technology

67.4 Low-Light Integral Imaging 3D Saliency Detection via a Physically-Guided Transformer with Retinex Prior (9:30-9:50)

Hanlin Liu, Xidian University

Session 68: Flexible Electronic Devices (E-Paper and Flexible Displays)

Friday, April 3/8:30-10:30/ Apollo VIP Room

68.1 Invited Paper: Highly Efficient, Fully Stretchable OLEDs (8:30-8:50)

Tae-Woo Lee, Seoul National University

68.2 Invited Paper: Fibertronic OLED Textiles for Wearable Displays (8:50-9:10)

Sung-Min Lee, Hanyang University

68.3 Invited Paper: Flexible, Foldable, and Stretchable QLEDs for Next-generation Display Applications (9:10-9:30)

Dong Chan Kim, Gachon University

68.4 A Stretchable, Transparent, and Conductive Hydrogel Fiber for Weavable ACEL Displays (9:30-9:50)

Ziming Xue, Wuhan Textile University

68.5 Factors Affecting Backside Impact Resistance in Bending Area of Foldable AMOLED Modules (9:50-10:10)

Shuang Wang, Hefei Govisionox Technology Co., Ltd.

68.6 Flexible, Multicolor Anti-Counterfeiting Textile Display Device Based on AC Electroluminescence (10:10-10:30)

Yuchen Yang, Wuhan Textile University

Session 69: Optoelectronic Device Manufacturing – LCD (Display Manufacturing)

Friday, April 3/8:30-10:30/ Meeting Room 103

69.1 A Strategy for Low Reflectance of 4-side Bezel-less LCD Display with TFT Glass Outside (8:30-8:50)

Xiaoping Yu, Shenzhen China Star Optoelectronics Technology Co., Ltd.

69.2 Design and Optimization of High-Performance Photo-Alignment Polyimide Films For Liquid Crystal Displays (8:50-9:10)

Yuanxi Liu, China Star Optoelectronic Technology Co., Ltd.

69.3 Panel Defect Detection Technique Operating in Display Driver IC Itself for Data and Scan Line of TFT-LCD Panel (9:10-9:30)

Cheonwi Park, DB GlobalChip

69.4 Study on the Optical Properties of Polarizing Film in the PVA Stretching Process (9:30-9:50)

Yue Wang, TCL China Star Optoelectronics Technology Co., Ltd.

69.5 Analysis and Improvement of LCD Peeling by Polymer Film on Array (9:50-10:10)

ChunMei Li, TCL China Star Optoelectronics Technology

69.6 Analysis of the Long-term Mura Performance of LCD Panel with PFA and Sealant (10:10-10:30)

Xueqin Wang, TCL China Star Optoelectronics Technology Co., Ltd.

Session 70: Novel Display System Technology 2 (Display System)

Friday, April 3/8:30-10:30/ Meeting Room 102

70.1 Invited Paper: Trends in Display Technology in Russia (8:30-8:50)

Viacheslav Ivanov, National Research University Higher School of Economics

70.2 Theoretical Characteristics of LMR Used in Projectors (8:50-9:10)

Yury Gushcho, Longevity-122 AS

70.3 Computational Design and Optimization of Subpixel Concepts for Innovative OLED Displays (9:10-9:30)

Lu Zhang, Fluxim AG

70.4 Extreme Low-Power Driving Solution for Large-Size Oxide Display (9:30-9:50)

Shirong Ye, TCL China Star Optoelectronics Technology Co., Ltd.

70.5 Wide Range Low Power Intra-panel Interface Design Using AFC (Auto Frequency Control), ALC (Auto LCO Control) and ABC (Adaptive Bias Control) Technique in Large Display Driver IC (9:50-10:10)

TakJun Oh, DB Globalchip

70.6 Distinguished Student Paper: Breaking the Under-display Camera's Dilemma between Diffraction and Pixel Density Using Incoherent Pupil Synthesis (10:10-10:30)

Xinni Xie, Sun Yat-sen University

Session 71: LCD Application (Display Application)

Friday, April 3/8:30-9:50/ Meeting Room 101

71.1 Invited Paper: Liquid Crystal Spatial Light Modulators for Phase, Amplitude or Polarization Modulation (8:30-8:50)

Kristiaan Neyts, Hong Kong University of Science and Technology

71.2 Research on the Application of Field Sequential Color Display in Large and Medium-sized LCD Products (8:50-9:10)

Shuming Chang, TCL China Star Optoelectronics Technology Co., Ltd.

71.3 Innovative Application of Custom Color Space on Digital LCD Pen Display (9:10-9:30)

Zhiling Ma, Shenzhen Huion Trend Technology Co., Ltd.

71.4 Blue Photoresist Residue on Green Films: Mechanistic Insights and Effective Suppression Strategies (9:30-9:50)

Jiahao Zheng, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences

Session 72: OLED - Electrodes (OLEDs)

Friday, April 3/10:20-12:00/ Felicity Function Room A

72.1 Invited Paper: Enhanced Current Efficiency in Top-emitting Organic Light-emitting Diodes (10:20-10:40)

Sergey Stakharny, Prokhorov General Physics Institute of the Russian Academy of Sciences, Moscow, Russia/Central Research Institute "Cyclone"

72.2 Invited Paper: Reduction of the Percolation Threshold of Ag Films Using a Surface-active ITO Layer (10:40-11:00)

Alexander Nuriev, Prokhorov General Physics Institute of the Russian Academy of Sciences, Moscow, Russia/Central Research Institute "Cyclone"

72.3 Invited Paper: Reflectance Difference in OLED COE Structure with MgAg and Transparent Cathodes A Comparative and Mechanistic Study via Optical Simulation (11:00-11:20)

Puyu Qi, Chengdu BOE Optoelectronics Technology Co., Ltd.

72.4 Microstructured Metal Electrodes Induced Light Manipulation in OLEDs (11:20-11:40)

Yangang Bi, Jilin University

72.5 Highly Conductive and Transparent Flexible Composite Electrodes for Flexible Organic Light-Emitting Diodes (11:40-12:00)

Jiamin Sun, South China University of Technology

Session 73: New Material TFTs (Active-Matrix Device)

Friday, April 3/10:40-12:20/ Felicity Function Room B

73.1 *Invited Paper*: Structure and Optical Properties of Thin-film Materials based on Phthalocyanine Derivatives (10:40-11:00)

Margarita Marchenkova, Ivanovo State University

73.2 *Invited Paper*: Reduced Processing Complexity via Single-Layer Dual-Gate Architecture in Organic Multimodal Thin-Film Transistors (11:00-11:20)

Radu Sporea, University of Surrey

73.3 *Invited Paper*: High-Performance Carbon Nanotube Thin Film Transistors Enabled by Atomic Layer Etching Process for Display Driving (11:20-11:40)

Yu Cao (曹宇), Peking University

73.4 Theory of the Distributions of the Hyper-Fine Sub-Boundaries in the (100)-Oriented Grain-Boundary-Free CW-Laser Crystallized Single Crystal Films on Insulator (11:40-12:00)

Nobuo Sasaki, Sasaki Consulting

73.5 Transistor-Level Tunable Sigmoid and Gaussian Activation Functions via Two-Gate Designs: From Analog Activation Function Control to Real-Time Hardware Demonstrations (12:00-12:20)

Junhyung Cho, Hanyang University

Session 74: Projection (Projection)

Friday, April 3/10:20-11:40/ Fabulous Function Room A

74.1 *Invited Paper*: Enhancing Speckle Reduction in Speckle-Reduce Screens via Phosphor Particle-based Wavelength Conversion (10:20-10:40)

Mulin Chen (陈牧林), HOLOKOOK Co., Ltd.

74.2 A Novel Free-Form, Fully Transparent Photon-Driven RGB Emissive Display (10:40-11:00)

Xiaodong Sun, Sun innovations Inc

74.3 Holographic 3D Display Based on Novel Dynamic Phase Modulators Current Status and Prospects (11:00-11:20)

Jianchao Zhang, Hisense Laser Display Co., Ltd.

74.4 Ultra-short Throw Ratio Projection based on MEMS Scanner and Multiple Laser Input (11:20-11:40)

Yuefan Shan, Beijing Institute of Technology

Session 75: Display Measurement Methods - Key Performance (Display Measurement)

Friday, April 3/10:20-12:00/ Fabulous Function Room B

75.1 *Invited Paper*: Research on Optical Improvement Scheme for BM-skip Solution of COE Products (10:20-10:40)

Ming Yang, BOE Technology Group Co., Ltd.

75.2 *Invited Paper*: Measurement, Evaluation, and Calibration of Luminance and Chromaticity Mura in Mini/Micro LED Displays (10:40-11:00)

Peng Zhuang (庄鹏), Xiamen Product Quality Supervision and Inspection Institute

75.3 *Invited Paper*: A Novel Method for Evaluating the Anti-Glare Performance of LCD Display (11:00-11:20)

Junying Xiao, BOE Technology Group Co., Ltd.

75.4 High-precision Hyperspectral Analyzer Applications in Optical Measurement of Micro LED Display (11:20-11:40)

Chen-Hsien Chu, TechnoOptis Co., Ltd.

75.5 Correction Methods, Equipment and Tools for Brightness and Chromaticity Uniformity of LCD Modules (11:40-12:00)

Changjia Fu, Beijing BOE Display Technology Co., Ltd.

Session 76: Joint Session with Organic and Printed Electronics Association (OE-A) (Printed Display)

Friday, April 3/10:00-12:00/ Fabulous Function Room C

76.1 *Invited Paper*: Emerging Technologies for a Sustainable Electronic Industry (10:00-10:20)

Rodrigo Martins, NOVA University (FCT-NOVA)

76.2 *Invited Paper*: Introduction to Printed Electronics and New OE-A Roadmap (10:20-10:40)

Luke Pan, Zhejiang Brilliant Optoelectronic Technology, OE-A

76.3 *Invited Paper*: OTFT Backplanes: From Flexible ePaper Displays to Pixelated Dimming for Smart Glasses (10:40-11:00)

Erin McDowell, FlexEnable

76.4 *Invited Paper*: Ultra Durable Printed Sensors (11:00-11:20)

Ivica Kolaric, Fraunhofer IPA

76.5 All Printed Flexible TFT-AM Device based on a Hybrid Gravure and Flexography Printing Strategy (11:20-11:40)

Junfeng Sun, Huazhong University of Science and Technology

76.6 Revolutionizing Manufacturing for Micro-Pixels & 3D Chip Interconnection with MEMS-type Industry EHD Printing Technology (11:40-12:00)

Wentang Hao, Scrona-YixinTech

Session 77: Electrophoretic Display (E-Paper and Flexible Displays)

Friday, April 3/10:40-12:20/ Apollo VIP Room

77.1 *Invited Paper*: Application and Future Development of Inkjet Printing (IJP) Technology in E-paper (10:40-11:00)

Zhuo Zhang (张卓), National Innovation Technology Optoelectronics Equipment Co., Ltd.

77.2 *Invited Paper*: The Evaluating Methods and Optimizing Algorithm for the Ghosting of EPD (11:00-11:20)

Xidu Wang (王喜杜), Guangzhou OED Technologies., Inc.

77.3 High Performance Cholesteric Liquid Crystal Displays of Single Cell and Dual Cell Structures (11:20-11:40)

Xueqin Zhou, InfoVision Optoelectronics (Kunshan) Co., Ltd.

77.4 Quantum-Dot Dual-Mode Electrophoretic Displays for All-Weather Readability and Low-Power Bistable Imaging (11:40-12:00)

Xingke Zheng, Fuzhou University

77.5 Functional Coupling and Decoupling Strategies for Synergistic Optimization of Dual-Mode Performance in Fluorescent Electrophoretic Displays (12:00-12:20)

Junjie He, Sun Yat-sen University

Session 78: Mini/Micro LED Display Manufacturing (Display Manufacturing)

Friday, April 3/10:40-12:20/ Meeting Room 103

78.1 *Invited Paper*: Innovative Research on Micro-LED Mixed Bin Technology (10:40-11:00)

Xintong Li (李欣瞳), Chengdu Vistar Optoelectronics Co., Ltd.

78.2 *Invited Paper*: Laser Processing of MicroLED's Beyond Limits to Enable Mass Production of MicroLED Displays (11:00-11:20)

Oliver Haupt, Coherent Corp.

78.3 *Invited Paper*: Unlocking MicroLED's Potential: Next-Gen BEOL Integration for Scalable, High-Performance Displays (11:20-11:40)

Karan Khullar, GlobalFoundries

78.4 *Invited Paper*: Ultra-Precise Dispensing for Next-Generation Display Manufacturing: From Pixel Repair to Wrap-Edge Interconnects (11:40-12:00)

Filip Granek, XTPL SA, ul.

78.5 Optimization of High Copper Selective Deposition Process in Through Glass Via (TGV) (12:00-12:20)

Jong Hyun Seo, Cuprum Materials Corp./ Korea Aerospace University

Session 79: 3D Display System (Display System)

Friday, April 3/10:40-12:20/ Meeting Room 102

79.1 A Light-shaping Diffuser Film for 3D Display (10:40-11:00)

Runshen Lu, Faith Billion Technology Development Limited

79.2 Spatial Display Solution for Heavy Duty Vehicles Reverse Driving System (11:00-11:20)

Rolf-Dieter Naske, Metavista3D Inc.

79.3 Crosstalk Suppression and Interleaved Frame Rate Enhancement Technology for Naked-Eye 3D Displays (11:20-11:40)

Zhixin Wang, BOE Technology Group Co., Ltd.

79.4 Footage3D: A Low-Cost Method for Generating Autostereoscopic 3D Content from Moving Camera (11:40-12:00)

Mengjie Zhai, Southern University of Science and Technology

79.5 Resolution Enhancement of Naked-Eye 3D Displays Using a Combined Dual-Size Lens Array (12:00-12:20)

Haodong Wang, Shanghai Jiao Tong University

Session 80: Display Optimization (Display Application)

Friday, April 3/10:00-11:40/ Meeting Room 101

80.1 *Invited Paper*: A High Vth Compensation Rate Pixel Circuit Based on LTPS (10:00-10:20)

Jianchao Zhu, BOE Technology Group Co., Ltd.

80.2 A New Scheme for Optimizing the Switching Effect Between PWM Mode and DC Mode (10:20-10:40)

Xiuning Shangguan, Yungu (Gu'an) Technology Co., Ltd. (Visionox's Affiliated Company)

**80.3 Optimizing Stimulus Arrangement for SSVEP-BCI Under Local Dimming Displays
(10:40-11:00)**

Yuang Li, Southeast University

**80.4 RGB Mini-LED Backlit LCD Integrated with Multi-input, Multi-output, and Multi-color Li-Fi
(11:00-11:20)**

Zihao Liang, Sun Yat-sen University

80.5 Intelligent Television Control System Based on EEG–EOG Fusion (11:20-11:40)

Tong Zou, Southeast University

Session 81: OLED - Tandem & Top Emitting Devices (OLEDs)

Friday, April 3/13:30-15:30/ Felicity Function Room A

**81.1 *Invited Paper*: Analysis of Lateral Light Leakage in Tandem Organic Light-Emitting Diodes
(13:30-13:50)**

Masaru Inoue, TOYOTech LLC

**81.2 *Invited Paper*: Improving External Light Extraction and Minimizing Viewing-Angle
Dependence in Top-Emission OLEDs (13:50-14:10)**

Min Chul Suh, Kyung Hee University

**81.3 The Understanding and Improvement of Luminance Overshoot on Tandem OLED
Production (14:10-14:30)**

Xiaoning Liu, Hefei Visionox Technology Co., Ltd.

**81.4 The Understanding and Improvement of Charge Generation Layer Stability in Tandem
Organic Light-emitting Diodes (14:30-14:50)**

Bin Liu, Yungu (Gu'an) Technology Co., Ltd.

**81.5 Top Emission Full Color Active-Matrix Quantum Dot Light Emitting Display by Overlay
Process (14:50-15:10)**

Zhimin Yan, Kunshan Govisionox Optoelectronics Co., Ltd.

**81.6 Transparent Tandem OLED with Symmetric Dual-Side Emission and Long Lifetime
(15:10-15:30)**

Guancheng Zhu, South China University of Technology

Session 82: TFT Circuits and Systems 1 (Active-Matrix Device)

Friday, April 3/13:30-15:30/ Felicity Function Room B

82.1 *Invited Paper*: Full Oxide TFT Technology for AMOLED Displays (13:30-13:50)

Shengdong Zhang (张盛东), Peking University

82.2 A High Stability WOLED Display with Adapting GOA for Gaming MNT (13:50-14:10)

Zhidong Yuan, BOE Technology Group Co., Ltd.

82.3 Research on Solution for Improving Low-Frequency Flicker in LTPO Products (14:10-14:30)

Wenyu Zeng, Hefei Visionox Technology Co., Ltd.

**82.4 A Novel Micro-LED Pixel Circuit Designed for Hybrid Pulse Modulation Driving Method
(14:30-14:50)**

Yingteng Zhai, Shanghai Tianma Microelectronics Co., Ltd.

82.5 Design of Triple Gate Display Panel with DLG Mode Support (14:50-15:10)

Tao Yang, BOE Technology Group Co., Ltd.

82.6 Implementation of CMOS GIP Circuits Using LTPO Technology (15:10-15:30)

Lanfen Lv, Hefei Visionox Technology Co., Ltd.

Session 83: Measurement Methods for Metaverse (Display Measurement)

Friday, April 3/13:30-15:10/ Fabulous Function Room B

83.1 *Invited Paper*: A Study on the Impact of Virtual Display Distortion Characteristics on Visually Induced Motion Sickness (VIMS) (13:30-13:50)

Yandan Lin (林燕丹), Fudan University

83.2 Understanding and Optimizing Lens Performance in AR Display Metrology (13:50-14:10)

Bob Liu, Light-All Co., Ltd.

83.3 Gaze vs. View A Framework for Correlating Dynamic and Static Measurements in AR Optics (14:10-14:30)

Tianxing Zhu, Instrument Systems GmbH

83.4 Application of an Automated Detection System for Image Transmission Performance Evaluation of AR Waveguide (14:30-14:50)

Luning Liu, Wuhan Jingce Electronic Group Co., Ltd.

83.5 Quantitative Measurement of Binocular Just-Noticeable Color Difference for Near-Eye Display System (14:50-15:10)

Zheng Huang, Wuhan University

Session 84: Printed Display Manufacturing (Printed Display)

Friday, April 3/13:30-15:10/ Fabulous Function Room C

84.1 *Invited Paper*: Unlocking the Potential of IJP OLED Technology (13:30-13:50)

Yuheng Liang (梁宇恒), TCL China Star Optoelectronics Technology Co., Ltd.

84.2 *Invited Paper*: Research Progress on the Industrialization of Printed QLEDs (13:50-14:10)

Yawen Chen (陈亚文), Guangdong Juhua Printed Display Technology Co., Ltd.

84.3 Research on Large-Area QLED Fabrication via Slot-Die Coating Process Based on Hybrid Solvent Engineering (14:10-14:30)

Changfeng Han, Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences

84.4 UV-Curable Quantum Dots: Synthesis and Patterning via High-Efficiency Piezoelectric Inkjet Printing (14:30-14:50)

Yongming Yin, Shenzhen MSU-BIT University

84.5 Ultrasound-Mediated Processing Technology for Modulating Viscoelasticity for Polymer Light Emitting Diodes (14:50-15:10)

Dongryul Lee, Pohang University of Science and Technology

Session 85: Components and Electronics for Flexible Displays (E-Paper and Flexible Displays)

Friday, April 3/13:30-14:50/ Apollo VIP Room

85.1 *Invited Paper*: Printed Sustainable Materials for Flexible Electronics and Energy Applications (13:30-13:50)

Elvira Fortunato, NOVA University Lisbon

85.2 Stretchable Organic Light-Emitting Diode Array with Buckled Bridges and Planar Light-Emitting Islands by Strain Engineering (13:50-14:10)

Da Yin, Jilin University

85.3 High Quality Polyimides and Displays (14:10-14:30)

Zugang Liu, China Jiliang University

85.4 Research on the Rigid-Flexible Coupling Model for Multi-Objective Optimization of Flexible AMOLED Module and Foldable Hinge (14:30-14:50)

Baofeng Sun, BOE Technology Group Co., Ltd.

Session 86: Display Process & Equipment (Display Manufacturing)

Friday, April 3/13:30-15:10/ Meeting Room 103

86.1 Improvement Methods for Water Stain Mura in the 2W1D Process (13:30-13:50)

Qi Wang, TCL China Star Optoelectronics Technology Co., Ltd.

86.2 Multiple Display Mode Compatible Exposure Equipment and Exposure Process Development (13:50-14:10)

Ju Ren, Chengdu BOE Display Sci-tech Co., Ltd.

86.3 Research on the Design and Application of Integrated Cover (14:10-14:30)

Lifang Zhou, Visionox's Affiliated Company

86.4 Systematic Investigation of Substrate Type, AG Haze, and Low-Refractive-Index Coating Thickness on Anti-Glare Low-Reflection Optical Performance (14:30-14:50)

GangSheng Liu, TCL China Star Optoelectronics Technology Co., Ltd.

86.5 The Pad Structure Design to Improve the Success Rate of Cell Test (14:50-15:10)

Tingting Zhang, Hefei Visionox Technology Co., Ltd.

Session 87: Field Sequential Color Display (Display System)

Friday, April 3/13:30-14:50/ Meeting Room 102

87.1 *Invited Paper / Distinguished Paper*: RGB Mini LED backlight for Field Sequential Color LCD (13:30-13:50)

Jinglun He (贺靖伦), Hisense Visual Technology Co., Ltd.

87.2 *Invited Paper*: Objective Flicker Evaluation of Field Sequential Color Displays (13:50-14:10)

Changqing Shao (邵长庆), Hisense Visual Technology Co., Ltd.

87.3 Towards Practical Field Sequential Color LCDs by Considering Non-ideal Spatiotemporal Characteristics (14:10-14:30)

Hengxuan Liu, Sun Yat-Sen University

87.4 Field-Sequential Color LCDs with Simultaneously Optimized Color Breakup, Distortion, and Flicker (14:30-14:50)

Feiyi Wu, Sun Yat-Sen University

Session 88: OLED Application (Display Application)

Friday, April 3/13:30-14:50/ Meeting Room 101

88.1 *Invited Paper*: Enhanced Low-Temperature Mechanical Reliability of Foldable Screen (13:30-13:50)

Shuangbing Zhang (张双兵), Hefei Visiononx Technology Co., Ltd.

88.2 The study on HVA Dual PI Less Alignment (13:50-14:10)

Guoren Luo, TCL China Star Optoelectronics Technology Co., Ltd.

88.3 *Distinguished Paper*: Novel AMOLED Panel with Anti-UV Design for Outdoor Application (14:10-14:30)

Zhiyong Xiong, Shanghai Tianma Microelectronics Company Limited

88.4 Research on the GIP Circuit Corrosion Mechanism in an AMOLED Module (14:30-14:50)

Zhijia Zhang, Yungu (Gu'an) Technology Co., Ltd. (Visionox's Affiliated Company)

Session 89: Antenna-on-Display (AoD) and Touch Displays (Touch & Interactive Displays)

Friday, April 3/15:40-18:00/ Felicity Function Room A

89.1 *Invited Paper*: Design Evolution of Millimeter-wave and Microwave Antenna-on-Display (AoD) on the TFE of an OLED Display for 5G and 6G Smartphones (15:40-16:00)

Huan-Chu Huang (黄奂衢), Visionox Technology Inc.

89.2 *Invited Paper*: Wearable Microneedle-Based Biosensing System for Continuous In-Situ Monitoring of Physiological Signals (16:00-16:20)

Hui-Jiuan Chen (陈惠娟), Sun Yat-Sen University

89.3 A New Design for CUP to Reduce Reflection and Diffraction based on LTPO and CFOT (16:20-16:40)

Chong Qian, Tianma Microelectronics Co., Ltd.

89.4 A Technology for Enhancing the Water Resistance of Touchscreen Edges (16:40-17:00)

Junjie Lv, Jiangsu Huixian Display Technology Co., Ltd.

89.5 Metal-Mesh In-Cell Touch Sensor for Interactive Micro-LED Displays (17:00-17:20)

Ziyang Ge, Peking University

89.6 Human-Computer Interaction Transparent Imaging System for Augmented Reality (17:20-17:40)

Enhao Shao, Southeast University

89.7 Study on the 1TFT-1C Touch Unit for Fingerprint Recognition with Conventional Neural Network (17:40-18:00)

Aoran Xu, Peking University

Session 90: TFT Circuits and Systems 2 (Active-Matrix Device)

Friday, April 3/15:40-17:20/ Felicity Function Room B

90.1 *Invited Paper*: IGZO-Compatible 2T DRAM and RRAM Devices for Potential Display-Driven Applications (15:40-16:00)

Sungjun Kim, Dongguk University

90.2 *Invited Paper*: Emerging Monolithic 3D Integration for Extreme-PPI AR/XR Microdisplay: Projection and Design (16:00-16:20)

Jiahao Kang (康佳昊), Peking University

90.3 The First Low-Power Consumption Liquid Crystal Display Panel Based on Dynamic Local Refresh Strategy of 1-120 Hz (16:20-16:40)

Haoxiong Zhang, BOE Technology Group Co., Ltd.

90.4 *Invited Paper*: Electrically Modulated Subthreshold Swing for Improved Current Control (16:40-17:00)

Man Wong (王文), The Hong Kong University of Science and Technology

90.5 *Distinguished Paper*: Ultra-Narrow Border Design for High-PPI Wearable Displays (17:00-17:20)

ManMan Li, Hefei Visionox Technology Co., Ltd.

Session 91: Measurement Methods for OLED (Display Measurement)

Friday, April 3/15:20-16:40/ Fabulous Function Room B

91.1 *Invited Paper*: A Quantitative Evaluation Method Towards The Clean and Legible Characteristics of OLED Displays (15:20-15:40)

Guoqiang Tang, Chengdu BOE Optoelectronics Technology Co., Ltd.

91.2 *Invited Paper*: Research on Flexible Display Folding Resilience Force Test (15:40-16:00)

Yanling Liu (刘艳玲), Visionox Technology Inc.

91.3 Research on Anti-Corrosion Testing Methods for AMOLED Modules (16:00-16:20)

Huiyun Zhu, Kunshan Govisionox Optoelectronics Co., Ltd.

91.4 Research on Thermal Dissipation in AMOLED Display Module for Handheld Gaming Application (16:20-16:40)

Zhiyong Xiong, Shanghai Tianma Microelectronics Company Limited

Session 92: Printed Display Materials (Printed Display)

Friday, April 3/15:20-17:00/ Fabulous Function Room C

92.1 *Invited Paper*: Solution-Processed OLEDs at the Crossroads: Now Rivaling Vacuum Thermal Evaporation in Performance (15:20-15:40)

Yaqin Pan (潘雅琴), Beijing Summer Sprout Technology Co., Ltd.

92.2 *Invited Paper*: Developing Anode Interfacial Layer for Printed OLED Applications (15:40-16:00)

Lei Ying (应磊), South China University of Technology

92.3 *Invited Paper*: Solution-Processed OLED Materials and Devices: Horizontal Dipole Orientation and Charge Transport Tuning (16:00-16:20)

Shumeng Wang (王淑萌), Changchun Institute of Applied Chemistry, Chinese Academy of Sciences

92.4 *Invited Paper*: Theoretical Insight into Precise Control of Dipole Horizontal Orientation in Emissive Layers in Solution-Processed OLEDs (16:20-16:40)

Xiankai Chen (陈先凯), Soochow University

92.5 *Invited Paper*: Multi-Dopant Strategy in Solution-Processed Emission Layer for High Performance Blue Fluorescent OLEDs (16:40-17:00)

Yanfeng Liu (刘彦峰), Zhejiang Brilliant Optoelectronic Technology Co., Ltd.

Session 93: Reflective Displays (E-Paper and Flexible Displays)

Friday, April 3/15:00-16:40/ Apollo VIP Room

93.1 *Invited Paper*: ChLCD as the Next Generation Low-Power Outdoor E-Paper Display (15:00-15:20)

Albert Liao (廖奇璋), IRIS OPTRONICS Co., Ltd.

93.2 *Invited Paper*: Towards high-resolution Bright full-color Video-speed Reflective Display (15:20-15:40)

Biao Tang (唐彪), South China Normal University

93.3 *Invited Paper*: Full Color Reproduction in Electrochromic Display (15:40-16:00)

Jian Wang (王坚), Dongguan University of Technology

93.4 Flash-Free Partial Update of ZBD LCD (16:00-16:20)

Bryan-Brown Guy, New Vision Display

93.5 A Novel Full-Color Cholesteric Bistable Electronic Paper: Design, Fabrication, and Performance (16:20-16:40)

Lixue Yang, TCL China Star Optoelectronics Technology Co., Ltd.

Session 94: Lighting (Lighting)

Friday, April 3/15:20-17:20/ Meeting Room 103

94.1 Invited Paper: Candlelight OLED (15:20-15:40)

Jwohuei Jou (周卓輝), Taiwan Tsing Hua University

94.2 Invited Paper: Evaluation and Analysis of Intelligent Vehicle Light Environment (15:40-16:00)

Zuo Zhu (竺佐), China Automotive Parts Technology (Tianjin) Co., Ltd.

94.3 A Novel High Performance Frontlight for Large Reflective Displays (16:00-16:20)

Peter Ren, New Vision Display

94.4 An Intelligent Color Temperature-adjusted Lighting based on Novel Stacked OLEDs (16:20-16:40)

Can Yuan, BOE Technology Group Co., Ltd.

94.5 Mathematic Model of Lighting Illuminance Effects on Ocular Physiological Functions Illuminance-amplitude Effect and Illuminance-contrast-sensitivity Effect (16:40-17:00)

Jianqi Cai, China National Institute of Standardization

94.6 Organic Single-Crystalline Semiconductors for Light-Emitting Devices (17:00-17:20)

Ran Ding, Jilin University

Session 95: Micro-LED and Ultra High-Definition Display (Display System)

Friday, April 3/15:00-16:40/ Meeting Room 102

95.1 A Novel LCD Quadruple-Frequency Driving System (15:00-15:20)

Rong Su, TCL China Star Optoelectronics Technology Co., Ltd.

95.2 Analysis of the Illumination Method and Ghost Image in High-brightness Single-panel LCD Projection Optical System (15:20-15:40)

Wenhao Jiang, Beijing BOE Display Technology Co., Ltd.

95.3 Application of 8.1 Gbps High-Speed Signals in High-Resolution VR Panels (15:40-16:00)

Wang Tao, TCL China Star Optoelectronics Technology Co., Ltd.

95.4 Towards a Breakthrough in Mini-LED Local Dimming A Novel Dark Noise Suppression Algorithm (16:00-16:20)

Tiankuo Shi, Nanjing ICD Microelectronic Technology Co., Ltd.

95.5 A Hardware-Parallel Architecture for Real-Time Video and Audio Analysis and On-Screen Display in 4K Ultra-High-Definition Systems (16:20-16:40)

Wenyuan Zhao, Southeast University

Session 96: Emerging Application (Display Application)

Friday, April 3/15:00-16:40/ Meeting Room 101

96.1 Invited Paper: Self-Illuminated Color Background Oriented Schlieren with Sub-Micron Displacement Accuracy Using Advanced Display Technologies (15:00-15:20)

Alexander Kurilov, Federal State University of Education

96.2 Software GenLock: Achieving Precise Multi-System Display Synchronization (15:20-15:40)

Arshad Mehmood, Intel Corporation

96.3 Virtual Yield Platform for Yield Simulation AI+EDA Co-Design Practice to Boost Display Panel Yield (15:40-16:00)

Jing Ba, TCL China Star Optoelectronics Technology Co., Ltd.

96.4 A Real-Time Myocardial Blood Flow Imaging System Based on Laser Speckle Contrast Imaging (16:00-16:20)

Renbin Wang, Technical Institute of Physics and Chemistry, CAS

96.5 *Distinguished Student Paper*: High-Quality Metasurface Holographic Display and Applications (16:20-16:40)

Shuo Sun, China Jiliang University

Poster Session

P 1 AMD

P 1.1 A Dynamic Luminance Compensation Algorithm for Mitigating IR-Drop-Induced Brightness Non-Uniformity in AM Mini-LED Backlights

Xianke zhan, Tianma Microelectronics Co., Ltd.

P 1.2 Study on the Stability of IGZO Thin Film Transistors under AC Stress

Ting Chen, Tianma Microelectronics Co., Ltd.

P 1.3 A Hybrid Backplane Technology for Inkjet-Printed OLEDs Using High-Mobility and Highly Reliable Amorphous Oxide Top-Gate TFTs

Chenning Liu, TCL China Star Optoelectronics Technology Co., Ltd.

P 1.4 A Novel LTPS TFT with Simple Architecture and Excellent Performance

Zhuang Li, Wuhan China Star Optoelectronics Technology Co., Ltd.

P 1.5 A Systematic Study of Influencing Factors of Gate Fall Time in TFT-LCD Panel Design

Zhan Wei, Beijing BOE Display Technology Co., Ltd.

P 1.6 Accurate Channel and Contact Resistance Extraction in Oxide TFTs Using a Voltage-Driven Gated Van der Pauw Method

Woo-Seok Lee, Inha University

P 1.7 Analysis and Prevention of Vertical Stripe Defects in Irregular TX Blocks

Peng Zhou, Beijing BOE Display Technology Co., Ltd.

P 1.8 Analysis of the heat resistance performance of Oxide TFT

Tianjing Yu, Beijing BOE Display Technology Co., Ltd.

P 1.9 BEOL-Compatible High-Performance Low-Temperature Polycrystalline Silicon Thin-Film Transistors with Fluorine Plasma Treatment

Peng Dai, Shandong University

P 1.10 Broadband Photoresponse Synaptic devices from Organic Assisted Engineering

Kyounghoon Kim, Gachon University

P 1.11 Corbino versus Rectangular TFTs: Analytical Area Comparison and High-Resolution Implications

Jiaquan Kong, Electric Power Research Institute of Guangdong Power Grid Co., Ltd.

P 1.12 Dam-Assisted Thermal Growth of MAPbI₃ Polycrystalline Perovskite for X-ray Detector

Sun Kuo, University of Electronic Science and Technology of China

P 1.13 Degradation of InSnZnO Thin-Film Transistors Under Positive Bias Illumination Stress

Zilang Wu, Shenzhen University

P 1.14 Design Scheme of LTPS Pixel Circuit for Enhanced Threshold Compensation of Driving TFT

Qian Xu, Chengdu BOE Optoelectronic Technology Co., Ltd.

P 1.15 Design Strategies of Improving Color Shift under Strong Light Irradiation in LTPS AMOLED

Wenpeng Lin, Tianma Microelectronics Co., Ltd.

P 1.16 Effect of Bottom-Gate Insulator Capacitance on Electrical Performance of IGZO TFTs

Sijin Cen, Tianma Microelectronics Co., Ltd.

P 1.17 Effect of PIN Structure Integration on the Electrical Performance of TFTs in X-ray Imaging Sensors

Wei Guo, Hefei University of Technology

P 1.18 Effects of Different Annealing Processes on the Output Characteristics of IGZO TFT Devices

Yanli Cao, Tianma Microelectronics Co., Ltd.

P 1.19 Effects of Process Parameters on the Electrical Properties of P-type Te-based Thin Film Transistors

Yudong Zhang, Shandong University

P 1.20 Enhancement of Electrical Performance for Long-Term Bias Stability in a-IGZO Thin Film Transistors

Chen Zhang, BOE Display Technology Co., Ltd.

P 1.21 Enhancing On-State Current in Polycrystalline Silicon Thin-Film Transistors via Geometric Modulation of Localized Channel Doping

Pengfei Liu, Shenzhen university

P 1.22 High Mobility Metal Oxide TFTs by Atomic Layer Deposition for AMOLED Display

Guowen Yan, Hefei Visionox Technology Co., Ltd.

P 1.23 High Transmittance and Refresh Rate Design of 55-inch LCD

ZhiXin Sun, TCL China Star Optoelectronics Technology Co., Ltd.

P 1.24 High-Mobility InGaZnO Transistors by Atomic Layer Deposition

Jiakang Zhang, Beijing Information Science and Technology University

P 1.25 High-Performance InAlZnO Transistors with Robust Stability

Xuehui Yang, Peking University

P 1.26 Improving Threshold Voltage Uniformity of a-IGZO TFTs through Back-Channel Passivation Layer Process Optimization

Qingfei Hu, Chongqing BOE Optoelectronics Technology Co., Ltd.

P 1.27 Influence of Oxygen Content on Optoelectronic Properties of Novel Quinary AOS IGZTO Thin Films

Liang Fang, Chongqing University

P 1.28 Low Temperature Process with 355 nm Fiber Laser Treatment on Amorphous In-Ga-O Thin Film Transistor

Wu-Jin Oh, Sungkyunkwan University

P 1.29 Low-Hysteresis CNT TFT Enabled by Interface Self-Assembly Treatment

Wei Huang, South China University of Technology

P 1.30 Mainstream TV Panel Dim Line Evaluation Solution and Improvement Strategies

Qiujiu Su, BOE Technology Group Co., Ltd.

P 1.31 PBTS Stability Improvement of InZnO Thin Film Transistors Fabricated with a BCE Structure

Ming-Jiue Yu, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 1.32 Performance Improvement of Negative Bias Temperature Instability in Dual-Gate IGZO Devices

Shiyu Long, Wuhan China Star Optoelectronic Technology Co., Ltd.

P 1.33 Research on the Coupling Pull Impact of Data Lines on DG TDDI Panel

Tengfei Ding, Beijing BOE Display Technology Co., Ltd.

P 1.34 Research Progress of Oxide Thin-Film Transistor Technology in the Semiconductor Field

Qianqian Bu, Beijing BOE Display Technology Co., Ltd.

P 1.35 Simulation Platform for Photosensitive Devices based on TFT Process

Jie Zhang, Beijing BOE Display Technology Co., Ltd.

P 1.36 Solution for Avoiding the Output Breakdown Behavior of Amorphous High-Mobility Oxide Thin-Film Transistors in Large-scale Preparation

Jingdong Liu, TCL China Star Optoelectronics Technology Co., Ltd.

P 1.37 Study on Improving the NBTIS Performance of Indium-Gallium-Zinc-Oxide Thin-Film Transistors

Yongdi Zhang, TCL China Star Optoelectronics Technology Co., Ltd.

P 1.38 The Analysis and Research on High-resolution and High-frequency of Flexible AMOLED 6.59-inch LTPS Display Panel

Xiping Su, Wuhan Tianma Microelectronics Co., Ltd.

P 1.39 The Effect of Different T-aging Conditions on the Ioff of LTPS Thin-Film Transistors

Dejian Wang, TCL China Star Optoelectronics Technology Co., Ltd.

P 1.40 Transient Simulation of Self-Heating Effect in an a-IGZO TFT Device

Gang Ni, Anhui Jianzhu University

P 1.41 UV-Responsive Optoelectronic Synaptic ITZO-MZO Heterojunctions Oxide TFT for Neuromorphic Computing

Haiyu Xie, South China University of Technology

P 1.42 Design of a Pixel Driving Circuit for Near-eye Displays with Smart Regulation of Power Consumption According to the Position of the Pupil

Donghui Zhang, Anhui Jianzhu University

P 1.43 Photo-Sensing Device Characteristics in Amorphous IGZO Transistors

Changbum Park, Beijing Oriental Electronics (BOE)

P 1.44 Research on the Improvement of Stability of Amorphous Silicon TFTs under High-Brightness and High-Temperature Conditions

Guanshui Luo, TCL China Star Optoelectronics Technology Co., Ltd.

P 1.45 The Influence of Peripheral Structure Damage on LTPS Reliability

Congxing Yang, Wuhan China Star Optoelectronics Technology Co., Ltd.

P 1.46 Effect of Annealing Temperature on Electrical Performance of IGZTO Thin-Film Transistor

Weicheng Cao, Chongqing University

P 1.47 Design of an Active-Matrix Driving Circuit for Zonal Dimming Sunglasses Based on LCD

Chonghao Zhang, Anhui Jianzhu University

P 1.48 Enhanced Performances of SnO₂ Thin Film Transistor by Nitrogen Modification for Low-cost Display Application

Kaijie Gu, Henan Academy of Sciences

P 2 Applied Vision

P 2.1 A Hit-Rate Model for Color Palette Similarity Evaluation Based on the Hungarian Algorithm

Yafan Gao, Wuhan University

P 2.2 A Method for Quantifying the Impact of Color on Perceived Brightness

Run Wang, Southeast University

P 2.3 Application of High-Brightness and Eye Care Technology in Display Screens

Yu Gao, Guangzhou TCL CSOT Semiconductor Display Technology Co., Ltd.

P 2.4 Beneficial Natural Light Technology for Healthy Display

Jinshuai Duan, BOE Technology Group Co., Ltd.

P 2.5 Effects of Display Polarization on Visual Fatigue: Insights from Combined Subjective and Objective Measurements

Si Feng, China National Institute of Standardization

P 2.6 End-to-End Neural Network for Cross-Device 3D Display Content Conversion

Qin Cheng, Hefei University of Technology

P 2.7 Research on the Effect of Wide Color Gamut on Perceived Brightness

Zihan Wang, Southeast University

P 3 AI for Imaging and Display

P 3.1 A Comprehensive Review of Challenges in Artificial Intelligence Text-to-Image Generation Applications

Qianger Xu, North China University of Technology

P 3.2 *Distinguished Student Paper*: A GAN-Based Integrated Simulation-Inference Framework for Efficient IR-Drop Compensation

Han Zhang, Shanghai Jiao Tong University

P 3.3 A Geometric Feature-based Conditional Diffusion Model for Predicting Stress and Strain Distribution in Curved OLED Screens

Xiaoyin Cui, BOE Technology Group Co., Ltd.

P 3.4 A Micro-LED-Based Hybrid Optoelectronic Neural Network System for Hundred-Image Parallel Inference

Haobo Zhu, Shanghai University

P 3.5 A Neural Network-based GOA Power Consumption Simulation Method

Zhibin Liu, Beijing BOE Display Technology Co., Ltd.

P 3.6 A Novel AI-Based Method for Demura at the Subpixel Level

Jianguo Wang, Guangzhou Govisionox Technology Co., Ltd. (Visionox's Shareholding Company)

P 3.7 A Pipelined Hardware Implementation of a Pyramid-Fusion-Enhancement Method for Weakly Illuminated Images

Xiaoxuan Wen, Shenzhen Technology University

P 3.8 A Review of 3D Scene and Metallography Image Generation Techniques Based on Generative Models

Yingqi Fan, North China University of Technology

P 3.9 A Review of Multimodal Public Sentiment Analysis Based on Image-Text Fusion

Peihua zhang, North China University of Technology

P 3.10 A Small Object Detection Algorithm Based on Enhanced Feature Fusion

Zhonghua Lan, Fuzhou University

P 3.11 A Unified Framework for Multi-modal and Multi-Task Enterprise QA System with LLM

Yue Li, BOE Technology Group Co., Ltd.

P 3.12 Adaptive Frame Interpolation for Integral Imaging Video Generation

Xinyang Tong, Xidian University

P 3.13 AI-Accelerated RCWA Framework for Rapid Design of Waveguide Grating Couplers in Near-Eye Displays

Guoping Liu, Shandong University

P 3.14 AI-DACP: A Hardware-Friendly DNN-Based Dynamic Power Optimization for High-Resolution Mini-LED Backlights

Xianke Zhan, Tianma Microelectronics Co., Ltd.

P 3.15 AI-Empowered Lightweight Digital Transformation Path for Aging Panel Production Lines

Jian Guo, Wuhan BOE Optoelectronics Technology Co., Ltd.

P 3.16 An Optimized 3D-LUT Low-Light Image Enhancement Network Based on Channel Correction and Adversarial Denoising

Huiying Wang, Fuzhou University

P 3.17 Application of an IIoT- and AI-Enabled Digital Twin System to Robot Maintenance in the Panel Manufacturing Industry

Si Niu, BOE Technology Group Co., Ltd.

P 3.18 Automated Spin-Coating Process for High-Quality Multilayer Quantum Dot Films

Haodong Tang, Shenzhen Technology University

P 3.19 Display Embedding: Advancing Industrial Knowledge Retrieval Through Foundation Models

Qianhong Yu, BOE Technology Group Co., Ltd.

P 3.20 DPP-DTT Nanowire Synaptic Devices with Optical and Electrical Plasticity for Biosignal Classification

Wangmyung Choi, Hanyang University

P 3.21 Edge-Side Voice Control Optimization through Lightweight ASR Fine-Tuning and Hierarchical Semantic Matching

Shaoxun Su, BOE Technology Group Co., Ltd.

P 3.22 Exploring the Development of a Secure, Local RAG for OLED Technology with Local LLM

Pengfei Li, Tianma Microelectronics Co., Ltd.

P 3.23 Eye-Tracking Systems for Interactive Display Applications

Yongwei Wu, Shenzhen Technology University

P 3.24 Fast Content Generation for Naked-Eye 3D Light-Field Display

Yulin Du, Tianjin Medical University

P 3.25 Fault Prediction Method Based on Robot Monitoring Data

Jian Huang, BOE Technology Group Co., Ltd.

P 3.26 Inverse Design of High-Quality Dielectric Metasurface Filters for Full-Color Displays

Jiawei Zhang, Fuzhou University

P 3.27 I-PLMFTS: Research on an Intelligent Insole System Based on a Porous Sponge Triboelectric Nanogenerator

Qiyao Wang, Fuzhou University

P 3.28 MLP-CNN-Based Modeling for Organic Electrochemical Transistors Transfer Characteristic Curves

Sixing Chen, Sun Yat-Sen University

P 3.29 Multimodal Image-Text Sentiment Analysis via Adaptive Modal Weighting

Xingzun An, North China University of Technology

P 3.30 Practical Molecular Property Prediction with AI Model

Tong Liu, BOE Technology Group Co., Ltd.

P 3.31 Real-Time AI-Enhanced Dual-Camera Vision System with Derain, Desnow, and Object Detection for Embedded Applications

Xiaoyu Ying, Shenzhen Technology University

P 3.32 Real-Time YOLOv3-Tiny Acceleration on Zynq-7035 Using a Hardware-Software Co-Design Approach

Hanyang Ye, Shenzhen Technology University

P 3.33 Self-Powered Optoelectronic Synaptic device based on β -Ga₂O₃/Thiazolothiazole Heterojunction for Artificial Visual Systems

Wangmyung Choi, Hanyang University

P 3.34 Simulation-Driven Design of High-Color-Purity Cadmium-Free QLEDs Using Semi-Transparent Ag Microcavities

Yihuan Zhou, Shenzhen Technology University

P 3.35 Unsupervised Video Anomaly Detection with Vision–Language Model as Assistance

Yalong Jiang, BOE Technology Group Co., Ltd.

P 3.36 Applied Vision-Driven Autonomous Navigation: Enhancing Obstacle Avoidance for Indoor Mobile Robots

Nan Li

P 3.37 Wide-Range Absolute Blood Flow Velocity Quantification in LSCI via Optical Flow and Multimodal Deep Learning

Kaijing Shang, Technical Institute of Physics and Chemistry

P 3.38 AI-Based Performance Prediction Analysis of Falling Ball Test

Mingjie Tang, Guangzhou Govisionox Technology Co., Ltd. (Visionox's Shareholding Company)

P 4 VR & AR & MR & Metaverse

P 4.1 A Comprehensive Study on the Prospects and Challenges of Applying Extended Reality in Education

Zongyuan Jie, North China University of Technology

P 4.2 A Gate Driver Circuit Based on High-Mobility Oxide TFTs for High-PPI VR Displays

Shunhang Zhang, BOE Technology Group Co., Ltd.

P 4.3 A High-Performance Polarization Splitter-Rotator with High Fabrication Tolerance on Lithium Niobate

Hui Wang, Hangzhou Institute of Technology

P 4.4 A Review of Cross-subject EEG-based Emotion Recognition

Xiaofeng Wu, North China University of Technology

P 4.5 A Review of Emotion-Driven Personalized Recommendation for VR-Based Stress Reduction

Zhenyang Zhou, North China University of Technology

P 4.6 A Review of the Development of Extended Reality (XR) Display Technology for Novel Interactive Tools

Lingxiao Du, Suzhou Govisionox Innovation Technology Co., Ltd.

P 4.7 A Review on Technologies for Converting 2D Images to 3D Videos

Jiaming Zhang, North China University of Technology

P 4.8 A Spatial-Intelligence-Driven Framework for Cultural Heritage Digital Twins

Jianan Wu, Nanjing University

P 4.9 A Study on Performance Improvement of Rover-SLAM in Dynamic Environments Based on YOLOv8 Instance Segmentation

Shulin Cao, North China University of Technology

P 4.10 A Study on the Design Scheme of a 2540 PPI Fast LCD for VR

Xinfang Li, Beijing BOE CHUANGYUAN Technology Co., Ltd.

P 4.11 A Multimodal Sentiment Analysis Framework with Knowledge

Luran Xing, North China University of Technology

P 4.12 An Enhancement Solution for VR 2D Mini LED Backlight

Zhiwei Wu, Beijing BOE CHUANGYUAN Technology Co., Ltd.

P 4.13 AR Diffractive Waveguide Display with a Segmented Surface-relief Grating Out-coupler for Enhanced Eye-box and Angular Uniformity

Xiaohui Xie, Shanghai University

P 4.14 AR Fine-Grained Recognition System for Cheongsam Museums: Temporal Activation and Scene-Adaptive Preprocessing

Kun Yao, Shanghai University

P 4.15 Augmented Reality 3D Display Based on Integral Imaging with Biocular-tailored Partitioned Rendering Method

Zhao Tang, Beijing Institute of Technology

P 4.16 Broadband EUV Focusing Metalens Based on Nanohole Arrays in Aluminum Film

Kaiwei Chen, Xidian University

P 4.17 Enhancing the Transmission Efficiency of 2D Exit-Pupil-Expanding Volume Holographic Grating Waveguides via Exposure Angle Compensation

Mingxuan Wang, Technical Institute of Physics and Chemistry, CAS

P 4.18 Femtosecond Laser Glass Modification Technology Based on Wet Etching

Xinyue Qiu, North China University of Technology

P 4.19 High PPI Red Passive Matrix Silicon-Based MicroLED for AR

Tao Chen, Wuhan Huaxing Optoelectronics Technology Co., Ltd.

P 4.20 High-resolution Light Field Display based on Micro-LED with High Pixel Density and Narrow Light-emitting Area

Yucheng Bai, Sichuan University

P 4.21 Neural Network-Based Opto-Mechanical Analysis of Pancake Optics Under Wide Temperature Ranges

Zheng Wang, Hefei University of Technology

P 4.22 Polarization-Controlled AR Waveguide Design with Dual-Side Pupil Expansion

Wenjun Xu, Southeast University

P 4.23 Polarization-Sensitive of Quasi-One-Dimensional TiS₃ and Infrared Photodetector

Jiahao Wu, Peking University

P 4.24 Preserving Spatial Resolution and Focus Cues in Holographic Stereograms under Finite Pupil Apertures via Hogel-Mask Phase Optimization

Yuan Liu, Hefei University of Technology

P 4.25 Process-Free Intense Micro Cavity Engineering for High-Performance Three Stack White OLEDs

Wei Li, Kunshan Govisionox Optoelectronics Co., Ltd.

P 4.26 Research on Ultra-High PPI Monochrome AR Display of AMOLED Technology Based on Glass Substrate

Hui Liu, Beijing Visionox Technology Co., Ltd.

P 4.27 Super-hard Dielectric Coating on Coverlens

Shenglin Lu, Visionox Technology Inc.

P 4.28 The Revolutionary Impact and Outlook of Embodied AI on Metaverse NPCs

Ruile Zhang, Hangzhou Institute of Technology, Xidian University

P 4.29 Towards Low-Power Image Feature Extraction and Matching on AR Glasses

Yi Zhou, Shanghai University

P 4.30 Virtual Reality-Based Embodied Intelligence Training: Teleoperation and Physics Simulation

Chengyang Zhang, Hangzhou Institute of Technology, Xidian University

P 4.31 The Wearable Pixel-Level Multi-Depth Near-Eye Display System

Nan Hu, Sichuan University

P 4.32 InGaN Tunnel-Junction Nanorod Photonic Crystal Laser for Next-Generation AR Display Applications

Sung-Un Kim, Jeonbuk National University

P 4.33 The Cross-disciplinary Integration of Augmented Reality and Dance Art

Yixun Zhong, South China University of Technology

P 4.34 Application and Effects of VR Technology in the Field of Dance

Yixun Zhong, South China University of Technology

P 4.35 Fast Generating CGH with the First- Order Constrained Spatial Filtering Approach

Ling-Dong Tsau, Taiwan University of Science and Technology

P 4.36 Global Dual-depth Lens Optimization Method for Resolution-Enhanced Light Field 3D Display

Chongji Zhao, Sichuan University

P 4.37 Human-Eye-Convolution-Based Design and Evaluation of Polarization Volume Grating Waveguide Near-Eye Displays

Qingyu Li, Southeast University

P 4.38 Imaging-Based Modeling for Regional Efficiency Optimization in 2D Pupil-Expansion PVG Waveguides

Yicheng Zhao, Southeast University

P 4.39 Micro-QLEDs towards Color-Conversion Microdisplay for AR applications

Yuyu Jing, Beijing Institute of Technology

P 4.40 Segmented Front-lit with an Optimal Light Spread Function for Low-color-breakup Field-sequential Color LCoS

Yi Pan, Sun Yat-sen University

P 4.41 Study on the Diffraction Characteristics of Ultra-broadband Polarization Volume Gratings

Jinghan Qiu, Southeast University

P 4.42 A Monocular Vision-Guided Light Field Image Generation Method Based on 3D Gaussian Splatting

Lu Zhang, Sichuan University

P 4.43 Design and Fabrication of a High-performance Curved-laminated Pancake Module for Wide FOV VR Displays

Jiaping Sun, Beijing Institute of Technology

P 4.44 Metal-dielectric Grating for SiC Waveguide Display

Mengyao Zhang, Southeast University

P 5 Display Application

P 5.1 A Class-Balanced Spectral-Spatial Residual Network for Fine-Grained Hyperspectral Vegetation Classification

Ruiyang Fei, Shanghai University

P 5.2 A New Dual Gate Pixel Structure Suitable for Large-sized and High-refresh-rate LCD panels

Fulan Zhong, TCL China Star Optoelectronics Technology Co., Ltd.

P 5.3 A Two-Stage Edge-Aware Adaptive Anti-Aliasing and Anti-Artifact Demosaicing Algorithm

Yujie Shi, Shanghai University

P 5.4 Aromatic Lewis-base-assisted Ligand Cleaning Strategy Enables Suppression of Non-radiative Recombination in Blue Perovskite Quantum Dot Light-emitting Diodes

Zhanpeng Qin, Tianjin University

P 5.5 Content Overview of Display Industry and Challenges for the Near Future

Sha Liu, Beijing BOE Display Technology Co., Ltd.

P 5.6 Design and Implementation of a Display Stream Compression Encoder for High-Resolution Display Systems

Xia Ye, Shanghai University

P 5.7 Design of a High-Efficacy Backlight System for ARHUD

Huanli Yang, Wuhan China Star Optoelectronics Technology Co., Ltd.

P 5.8 Exploration of a Wide-Viewing Angle LCD Solution

Chaoyue Wang, Hefei Jingdong Display Technology Co., Ltd.

P 5.9 Exploring the Applications of Flexible Display Technology in Anti-Counterfeiting

Cui Liu, China Banknote Printing Technology Research Institute

P 5.10 Floating Hemisphere Platform Made by Lapping Thin Films or Fluffy Cloud-like Materials for Aerial Signage and Spatial Visual Effects in The Air

Kunio Sakamoto, Konan University

P 5.11 Hardware-Software Co-Design of an Image Encryption Scheme Integrated with National Cryptography and Post-Quantum Cryptography

Xiaobo Huang, Shanghai University

P 5.12 Influence of Optical Defocus Rate on Autostereoscopic Display: 2D and 3D

Min Lu, Shenzhen Yinglun Tech

P 5.13 LCD Multi Frequency Partition Refresh Based on A-si Technology

Chunjin Lin, Xiamen Tianma Microelectronics Co., Ltd.

P 5.14 Lens-aware-Anti-Aliasing via Direction-Gated Diffusion in Lenticular 3D Displays

Xin Tong, TCL China Star Optoelectronics Display Technology Co., Ltd.

P 5.15 Lightweight Hardware Accelerator for Real-Time Object Detection on Zynq-7020

Zhonglin Tang, Shanghai University

P 5.16 Multi-Scale Fusion Enhanced Sparse Transformer for Image Deraining

Enfang Xu, Shanghai University

P 5.17 Quantitative Index of LCM Uneven Brightness and Darkness

Shengyan Qiu, BOE Technology Group Co., Ltd.

P 5.18 Research Method for In-plane Image Quality Improvement Based on Power IC

Yihua Zhang, TCL China Star Optoelectronics Technology Corporation

P 5.19 Research on the Image Quality of RGBY Pixel Arrangement

Binyan Wang, Chengdu BOE Optoelectronics Technology Co., Ltd.

P 5.20 Research on Key Technologies for Viewing Angle Improvement of VA Liquid Crystal Displays

Lizhen Li, China Star Optoelectronic Technology Co., Ltd.

P 5.21 Research on Material Selection and Process Optimization for Enhancing Ion Migration Resistance in Flexible Printed Circuits (FPCs)

Yu Gao, Guangzhou China Star Optoelectronics Technology Co., Ltd.

P 5.22 Research on Privacy Performance of OLED Display with BM

Yi Wang, Tianma Microelectronics Co., Ltd.

P 5.23 Research on Special Designs and Solutions for High Frame Rate and Low Power Consumption in Displays

Yu Gao, Guangzhou China Star Optoelectronics Technology Co., Ltd.

P 5.24 Research on the Improvement Effect of BLU Driving Line Design on Circuit Reliability Optimization

Yu Gao, Guangzhou China Star Optoelectronics Technology Co., Ltd.

P 5.25 Research on the Improvement of Tear Resistance through Material Optimization of FPC Gold Fingers

Yu Gao, Guangzhou China Star Optoelectronics Technology Co., Ltd.

P 5.26 Research on Ultra-Thin and Lightweight Mobile Phone Modules Based on Universal Structural

Yu Gao, Guangzhou China Star Optoelectronics Technology Co., Ltd.

P 5.27 Research on Ultra-high Transmittance and Dynamic Adjustment of Image Quality Applied to HUD

Xiaoxia Wang, BOE Corporation

P 5.28 The Impact of Different Physical Properties on the Surface of LCD Panels on Visual Health

Zhiping Zheng, Shenzhen China Star Optoelectronics Technology Co., Ltd.

P 5.29 Top-down Crushing Fabrication of Quantum Dots-based Composite for Diffusion Plate Application

Jifei Ge, Beijing Institute of Technology

P 5.30 A Kind of Self Adaptive Temperature Control System based on Heater In Cell TFT LCD

Yaxin Sun, BOE Technology Group Co., Ltd.

P 5.31 Feasibility Study on Replacing Traditional LGP & REF Tape with UV Dispensing

Xinlei Xiong, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 5.32 Low-Power High-Reliability Two-Terminal Ambient Light Sensor Based on A-Si TFT for Display Panels

Fengyun Yang, Chuzhou HKC Optoelectronics Technology Co., Ltd.

P 6 Display Electronics

P 6.1 A Bridge-less and Inductor-less AC-DC Converter

Peter Jin, EMERALTECH

P 6.2 A Compensation Method for Color Uniformity of AMOLED Display Modules

Xiaonan Chen, Yungu (Gu'an) Technology Co., Ltd. (Visionox's Affiliated Company)

P 6.3 A Highly Adaptable Design of Wearable DDIC Source OP for Capacitive Loading

Chuangdong Liu, Kunshan Govisionox Optoelectronics Co., Ltd.

P 6.4 A Memory Sharing Algorithm Compensation Scheme Combining De Burn-in and Demura for OLED Displays

Fei Fang, Hefei Visionox Technology Co., Ltd.

P 6.5 A Real-time Compression and Decompression Scheme for Accumulated Aging Data in DBI

Pan Yang, Yungu (Gu'an) Technology Co., Ltd.

P 6.6 A Safety Diagnosis Solution for Abnormal Power ON Scenarios in AMOLED Automotive Display

Wenxing Li, Jiangsu Huixian Display Technology Co., Ltd. (Visionox's Affiliated Company)

P 6.7 A Solution to Improve Line Crosstalk at the Lower Edge of the OLED 3scan Hole Area

Wenying Huang, Kunshan Govisionox Optoelectronics Co., Ltd.

P 6.8 A Staggered-Scan Driving Strategy for Mitigating Image Sticking in Flexible LTPS AMOLED Displays

Genmao Huang, Beijing Visionox Technology Co., Ltd.

P 6.9 A Study on the Anti-Electrostatic Field Performance of AMOLED Modules

Rukang Zhang, Guangzhou Govisionox Technology Co., Ltd.

P 6.10 A System-Level Solution for H-Crosstalk in TFT-LCDs: Driving Scheme Reconfiguration and Algorithmic Compensation

Hengsuo He, Chengdu BOE Display SCI-Tech Co., Ltd.

P 6.11 A Voltage-Stacking Driving Method for RGB LEDs

Zhenhua Pang, Hisense Visual Technology Co., Ltd.

P 6.12 Analysis of the SIMO Power Architecture for AMOLED Displays in Wearables

Caiwang Hao, Jiangsu Huixian Display Technology Co., Ltd. (Visionox's Affiliated Company)

P 6.13 Application of Simulation Technology in Electrostatic Discharge (ESD) Issues for LCD Screens

Bailing Liu, BOE Technology Group Co., Ltd.

P 6.14 Crosstalk Analysis and Eye Diagram Improvement for High-Speed Differential Signals in TV Source boards

Bing Li, Hefei BOE Display Technology Co., Ltd.

P 6.15 Falling-Edge Accelerated Gate Driver for High Refresh Rate Displays

Peng Liu, BOE Technology Group Co., Ltd.

P 6.16 A Technical Solution to Improve the Motion Blur and Save the Power Consumption of the Display Module

Chunlei Zhang, Kunshan Govisionox Optoelectronics Co., Ltd. (Visionox's Affiliated Company)

P 6.17 Implementation of Sub-pixel Rendering on Application Processor

Nian Tian, Wuhan Vocational College of Software and Engineering (Wuhan Open University)

P 6.18 Passively Addressed OLED Display with Deep Integration of Control Circuitry

Sergey Kargapoltsev, Flexible Electronics Center

P 6.19 Precise One-time Compensation is Achieved by Dynamically Identifying Low-gray-scale Mura via An Adaptive Demura Algorithm

Juan Zhou, TCL China Star Optoelectronics Technology Co., Ltd.

P 6.20 Research on Demura Compression Solutions

Chunhui Ren, Kunshan Govisionox Optoelectronics Co., Ltd.

P 6.21 Research on Influence Factors of AMOLED Area Peak Luminance

Xihua Du, Yungu (Gu'an) Technology Co., Ltd.

P 6.22 Research on OLED Power Compensation Based on Architectural Differences Between IGZO and LTPS TFTs

Haiqi Mo, TCL China Star Optoelectronics Technology Corporation

P 6.23 Research on the Application of High-mobility Oxide TDDI Multiplexing Technology in Low Power Wakeup Gesture

Mindong Zheng, BOE Hefei Xinsheng Optoelectronics Technology Co., Ltd.

P 6.24 Research on the Impact of PD Noise Reduction in GOA Architecture on Touch Control

Zhuo Zhou, BOE Hefei Xinsheng Optoelectronics Technology Co., Ltd.

P 6.25 Research on Wi-Fi De-sense Improvement Based on Display Driver IC

Weifeng Chen, TCL China Star Optoelectronics Technology Co., Ltd.

P 6.26 Single-Pin Temperature Data Transmission Between Ultrasonic Fingerprint Sensor IC and DDIC & Machine Learning-Based Full-Screen Prediction for OLED Panel Temperature Compensation and Image Quality Improvement

Hongjin Hu, Chengdu BOE Optoelectronics Technology Co., Ltd.

P 6.27 System Efficient ESD Design Methodologies for Mobile Phone LED Circuit

Zhaokun Du, Southeast University

P 6.28 An Adaptive Local Dimming Algorithm Based on RGB Mini-LED Backlight System

Ke Yang, Hisense Visual Technology Co., Ltd.

P 6.29 Influence Factors and Optimization Directions of DBV Transition Smoothness

Ran Chen, Hefei Visionox Technology Co., Ltd.

P 6.30 The Comprehensive Analysis of the Cooling Scheme of the Display Driver IC

Weijie Chen, Guangzhou China Star Optoelectronics Technology Co., Ltd.

P 6.31 Applying Dual Line Gate Mode on Data Line Sharing Panel

Shaoyuan Yang, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 6.32 Promotions on the Border of MUX Panels and Relative Driving Scheme

Yi Liu, Beijing BOE Display Technology Co., Ltd.

P 6.33 Power Consumption Saving Solutions based on Refresh Rate and Dynamic Panel Driving Setting

Shaoyuan Yang, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 7 Display Manufacturing

P 7.1 A Dual-taper MLP Structure with Lower Power Consumption and Better Viewing Angle Brightness

Shucheng Ge, Hubei Changjiang New Display Industry Innovation Center Co., Ltd.

P 7.2 A High-Efficiency MNT Based on a Dual Prism Architecture

Chang Gao, BOE Technology Group Co., Ltd.

P 7.3 A Manufacturing and Simulation Technology for Light-Extraction Microstructures

Peng Liu, BOE Technology Group Co., Ltd.

P 7.4 A Novel Color-Tunable, BM-Free COE Design Using a Gray Overcoat for Simplified Manufacturing

Tianle Cheng, Tianma Microelectronics Co., Ltd.

P 7.5 A Physics-Informed Multi-Agent Deep Reinforcement Learning Framework for Decoupling Control in Electrohydrodynamic Jet Printing Arrays

Yulin Li, Huazhong University of Science and Technology

P 7.6 A Study on Low Resistance Gate Cu or Ag for AMOLED

Caiyu Qu, BOE Technology Group Co., Ltd.

P 7.7 A Study on the Improvement and Management of Fab Environmental VOCs in the TFT-LCD Industry

Fei Guan, Chongqing BOE Optoelectronics Technology Co., Ltd.

P 7.8 A Unified Intent Understanding Framework for Intelligent Question-and-Answer Systems in Display Manufacturing

Wanqiu Hu, BOE Technology Group Co., Ltd.

P 7.9 AI-Driven Quality Enhancement -Innovative Breakthroughs in Yield Management

Xuexin Yang, BOE Technology Group Co., Ltd.

P 7.10 Analysis and Improvement of LCD Photo Spacer Peeling

ChunMei Li, TCL China Star Optoelectronics Technology Co., Ltd.

P 7.11 Analysis and Improvement of Mass-Bright-Spots Defect Associated with Polyimide Films

Yan Yan, Hefei BOE Display Technology Co., Ltd.

P 7.12 Anti-Extrusion Performance of Flexible Display Products with Adhesive Filling in the Bending Area

Jiaxin Ye, Guangzhou Govisionox Technology Co., Ltd.

P 7.13 Chain-of-Thought Enhanced Vision-Language Model for Key Information Extraction in Logistics Documents of the Display Industry

Pan Zhong, BOE Technology Group Co., Ltd.

P 7.14 Development of Ultra-Short-Channel High Mobility Oxide Thin-Film Transistors

Ce Ning, BOE Technology Group Co., Ltd.

P 7.15 Display Module OCA Stripping Force Evaluation and Modeling Analysis

Vina Yan, Shenzhen Laibao HI-TECH Co., Ltd.

P 7.16 Drive Circuit and Optical Co-Design for High-Performance Under-Display Infrared Recognition

Miao Chang, Hefei Visionox Technology Co., Ltd.

P 7.17 Effect of Amorphous Silicon TFT Gate Insulator Properties on Vth Stability

Dan Liu, Chongqing BOE Optoelectronics Technology Co., Ltd.

P 7.18 Effect of Co-doping on InWPrO TFT Bias Stability

Weixin Cheng, South China University of Technology

P 7.19 Effect of GTM Design on the Morphology of Organic Film Layer

Shuai Zhou, Yungu (Gu'an) Technology Co., Ltd. (Visionox's Affiliated Company)

P 7.20 Enhancement of AMOLED Display Performance and Lightweight-Thin Design Based on COE Technology

Long Zhang, Hefei Govisionox Technology Co., Ltd.

P 7.21 Fabrication of Multicolor Electrochromic Devices Based on Viologen Derivatives and Study of Neutral-State Ionic Viologen Derivatives

Jiahao Zheng, South China University of Technology

P 7.22 Five-Axis Precision Dispensing Technology for 3D Manufacturing of OLED Ultra-Narrow Bezel Displays

Jiantai Wang, Shenzhen Liande Automation Equipment Co., Ltd.

P 7.23 Formation Process and Solution of N+ Remain Defect in the Channel of Amorphous Silicon TFT

Liu Dan, Chongqing BOE Optoelectronics Technology Co., Ltd.

P 7.24 Improved Design of Frit Width Fluctuation in OLED Panel

Bing Han, Kunshan Govisionox Optoelectronics Co., Ltd.

P 7.25 Improving Dispersion Phenomenon in CFOT Technology for Always-Off Display Visual Effects

Yinchun Liu, Tianma Microelectronics Co., Ltd.

P 7.26 InSnZnO-Based Capacitorless Memory with Multibit Storage Capability for In-Memory Computing

Xiangcheng Liu, South China University of Technology

P 7.27 Investigation of Water Resistance in Monolithic AMOLED Modules

Rukang Zhang, Guangzhou Govisionox Technology Co., Ltd.

P 7.28 Large Model-Based Defect Detection and Repair Methods for the Display Industry

Xile Huang, BOE Technology Group Co., Ltd.

P 7.29 Light-Illuminated Mura in GIP Circuits: Mechanism Analysis, BSM Design Iteration and Optimization

Yamin Wang, Hefei Visionox Technology Co., Ltd.

P 7.30 Mechanistic Explanation of SPC Collapse and Mitigation Strategies in the Halftone Lithography Process

Chen Zhang, Visionox Technology Co., Ltd.

P 7.31 Methods for Enhancing the Mechanical Performance and Reliability of Low Temperature Solder

Zhenjiang Guo, TCL China Star Optoelectronics Technology Co., Ltd.

P 7.32 Optimizing Holographic Performance of Red Sensitive Acrylate Photopolymer for High Quality Denisyuk Holograms

Zhongwen Shen, Nanjing University of Industry Technology

P 7.33 Quasi-flat-top Laser Achieves Efficient Removal of Micro-LEDs

Kaizhu Liu, Hymson Laser Technology Group Co., Ltd.

P 7.34 Research on the Influence of 3D Curved Cover Plate Design Parameters on the Stress of AMOLED Encapsulation Layer

Liubin Fan, Hefei Visionox Technology Co., Ltd.

P 7.35 Research on the Printing Flow of Graphene Ink and the Thin Film Morphology of Graphene Based on Electrohydrodynamic Inkjet Printing

Jinyao Zhong, Shunde Polytechnic University

P 7.36 Research on Transmittance Results of Optical Films by Different Primers

Jin Tao, TCL China Star Optoelectronics Technology Co., Ltd.

P 7.37 Structural Anomaly Detection via Vision Transformer with Dual Attention Mechanism

Lei Song, BOE Technology Group Co., Ltd.

P 7.38 Study on Dispersion Optimization of Pigment R177 and Its Application in Red Color Filters

Peng Du, TCL China Star Optoelectronics Technology Co., Ltd.

P 7.39 Distinguished Student Paper: Study on Transfer Performance of Receiving Tape for GaN Micro-LEDs in Direct Laser Transfer Process

Zhu Yang, Shanghai University

P 7.40 Superkard Coating on Coverlens

Shenglin Lu, Hefei Visionox Technology Co., Ltd.

P 7.41 The Analysis of Positive Shift Phenomenon in NMOS LTPS Thin-film Transistors under Negative Gate Bias Temperature Stress

Sun Bin, Tianma Microelectronics Co., Ltd.

P 7.42 The Influence of Cover Glass Ink on the Compatibility Between the Display Module and the Entire Machine

Fangyi Liu, Beijing BOE Display Technology Co., Ltd.

P 7.43 The Influence of Powder Microstructure on the Sintering Kinetics Process of IGZO Target Materials

Hongming Song, South China University of Technology

P 7.44 Towards High-Performance Interfacial Adhesion: Optimization of Sealant Materials and Processes in LCD Panels

Ying Xiang, BOE Optoelectronic Technology Co., Ltd.

P 7.45 Variable Transparent POP Display Which Enables to Change Apparent Shape on Frame Design by Image Switching Using Polarized Light Controls

Kunio Sakamoto, Konan University

P 7.46 Vision-Based Monitoring of Arrayed Multijet Behaviors in Inkjet Printing Manufacturing

Jiacheng Cai, Huazhong University of Science and Technology

P 7.47 Implementation Plan for Increasing IC Touch Sensor Units by 2.7 Times

Fuxue Liang, Nanjing BOE Display Technology Co., Ltd.

P 7.48 Construction and Application of High-Precision Panel Inspection Result Prediction Model Based on Machine Learning

Xiaomin Yang, Chengdu BOE Display Technology Co., Ltd.

P 7.49 Optimization Study on Placement Efficiency of Needle Placement for Mini LED Backlight

Han Bo, BOE Technology Group Co., Ltd.

P 7.50 Improvement and Study of Ionic Contamination in TFT-LCDs

Desheng Zuo, Chengdu BOE Display Technology Co., Ltd.

P 7.51 Electronic Structure Engineering of Full-Spectrum Light-Emitting Phosphors

Mingwei Sun, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 7.52 Research on a Comprehensive Technical Approach to Enhance the Contrast of Liquid Crystal Displays: Synergistic Optimization of Backlight Regulation and Optical Film Materials

Long Hu, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 7.53 Research on the Application of Composite Etching Technology in Thin-Film Transistor Liquid Crystal Display

Zhaojian Wu, Wuhan BOE Optoelectronics Technology Co., Ltd.

P 7.54 Research on the Improvement of Ti-Al-Ti Lateral Etching Amount and Ag Complex by Anode Wet Etching in LTPS-AMOLED Production

Kun Zeng, Visionox Technology Inc.

P 7.55 Based on I2C Firmware Flash Project of Notebook Display Module

Jie Chen, BOE Technology Group Co., Ltd.

P 8 Display Measurement

P 8.1 A Low-Power Drop Detection Method for Display Modules Utilizing Vector Acceleration Sensors

Duo Chen, China Star Optoelectronics Technology Co., Ltd.

P 8.2 A Novel Optical Model for 3D Display Utilizing Glass Patterned Retarder

Pengyu Shang, BOE Technology Group Co., Ltd.

P 8.3 A Quantitative Analysis of Moving Vline in LCDs based on Human Visual Perception

Qiqi Qin, Shenzhen China Star Optoelectronics Technology Co., Ltd.

P 8.4 A Robust and Physically-Consistent Raman Spectroscopy Workflow for Accurate Crystallinity Quantification in Microcrystalline Silicon Thin Films

Linhong Han, HONOR Device Co., Ltd.

P 8.5 A Self-Adaptive DEMURA Method Based on Integrated Emissive-Sensing Pixel Devices for High-Uniformity Displays

Hao Pan, Sun Yat-Sen University

P 8.6 A Study of Sandy Mura based on AMOLED

Hongyuan Zhao, BOE Display Technology Co., Ltd.

P 8.7 Active Gamma-Compensation Method for Eliminating Luminance Steps in Low-Duty EM Dimming AMOLED Displays

Shuai Ye, Tianma Microelectronics Co., Ltd.

P 8.8 Analysis on the Generation Mechanism and Improvement Scheme of PG Power Fluctuation in LTPO at Low Frequencies

Hao Deng, Guangzhou Govisionox Technology Co., Ltd. (Visionox's Shareholding Company)

P 8.9 Analytical Methods for Detection of Outgassing in OLED Display Modules During Reliability Testing

Renhua Dai, Guangzhou Govixionox Technology Co., Ltd. (Visionox's Shareholding Company)

P 8.10 Angle-Space Coupled Evaluation Platform for OLED Sparkle Assessment

Hongze Li, BOE Technology Group CO., Ltd.

P 8.11 Correcting Non-Uniform Brightness in Images Using a Multi-Region Gamma Correction Approach

Qiqi Lin, TCL China Star Optoelectronics Technology Co., Ltd.

P 8.12 Determination Method for the Fracture Strain of Inorganic Monolayers in AMOLED Displays.

Jinjin Liu, Yungu (Gu'an) Technology Co., Ltd.

P 8.13 Evaluation of Color Crosstalk in RGB Independently Controlled Backlight Displays

Mingshen Zhao, TCL China Star Optoelectronics Technology Co., Ltd.

P 8.14 Field Sequential Color Display with Local Primary Desaturation and Color Gamut Calibration

Zheng Zhang, Southeast University

P 8.15 General Strategy for Improvement of the Ball-drop Impact Ability via SCF Modification in OLED Module

Shiqi Zhang, Xiamen Tianma Display Technology Co., Ltd.

P 8.16 Image Sticking in Display Panel Volume production: Mechanism, Detection and POL&COE Difference Study

Yamin Wang, Hefei Visionox Technology Co., Ltd.

P 8.17 Investigation of Support Plate Parameters on Impact Force in Backside Ball-Drop Testing

Zhengqing Yan, Guangzhou Govisionox Technology Co., Ltd.

P 8.18 Machine Learning–Driven Optimization of Microcrystalline Silicon Deposition for Display Applications via Raman Spectroscopy and Random Forest Regression

Linhong Han, HONOR Device Co., Ltd.

P 8.19 Miniaturized Atomic Magnetometer for Magnetocardiography (MCG) and Magnetoencephalography (MEG) Imaging Display

Jiahao Zhang, Beihang University

P 8.20 Mitigating Cell Gap Analysis Fluctuations of Vertical-Aligned LCDs by Integrating Multi-Focus Data of Microscopic Mueller Matrix Polarimeter

Yitao Liang, TCL China Star Optoelectronics Technology Company

P 8.21 Moiré Quantification and Removal in AMOLED Demura Using Color Cameras

Yuehan Xiong, Shenzhen SEICHI Technologies Co., Ltd.

P 8.22 Multidimensional Light Field Detection Technology Based on Metasurfaces

Yubin Qiao, China Jiliang University

P 8.23 Quantitative Index and Test Method of LCD Side View Consistent with Subjective Perception

Jing Zhang, TCL China Star Optoelectronics Technology Co., Ltd.

P 8.24 Quantitative Metrics for the Impact of Polarizer Surface Treatment on Display Image Quality

Jiao Wang, TCL China Star Optoelectronics Technology Co., Ltd.

P 8.25 Research on an Integrated Automatic Detection Device for Optical Parameters of Display Devices in Different Standard Light Scenarios

Xuan Zhao, Suzhou Institute of Metrology Co., Ltd.

P 8.26 Research on the Method of Characterizing Visual Residual Shadow Level by Optical Objective Value

Chao Han, Yungu (Gu'an) Technology Co., Ltd. (Visionox's Affiliated Company)

P 8.27 Simultaneous Analysis of Transient Electroluminescence and Impedance of Quantum Dot Light-Emitting Diodes

Honyeon Lee, Soonchunhyang University

P 8.28 Universal Approach for Optimizing SVM Value of OLED

Yajun Wang, Tianma Microelectronics Co., Ltd.

P 8.29 Evaluation Method and Comprehensive Optimization Strategy for Display Dynamic Response Performance Based on Motion Image Analysis

Lu Cheng, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 8.30 Pixel to Perception: A System and Practice for Subjective Evaluation of Display Picture Quality

Zhihui Li, TCL China Star Optoelectronic Technology Co., Ltd.

P 9 Display System

P 9.1 A Fast Backlight Profile Estimation Algorithm Using PSF for High-Brightness Field-Sequential Displays

Xuanyue Li, Southeast University

P 9.2 A Hyper-immersive Autostereoscopic Display System Based on a 57-inch Curved Ultrawide Display

Wang Dan, TCL China Star Optoelectronics Technology Co., Ltd.

P 9.3 A Multi-Panel Fan-Out Compensation Method for Improving Display Luminance Non-Uniformity

Qing Zhang, TCL China Star Optoelectronics Technology Co., Ltd.

P 9.4 Aerial Reflection Screen Using PVA Thin Films and Additional Eye-catching Units for Aero Signage Which Enables to Make Images Invisible from Back

Kunio Sakamoto, Konan University

P 9.5 An Intelligent Demura Adaptive Storage Algorithm and Data Storage Format

Fan Ning, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 9.6 Boosting Perceived Brightness: A Display Solution for SDR-to-HDR Conversion and Transient Peak Luminance

Yan Li, BOE Technology Group Co., Ltd.

P 9.7 Design of ESD Protection and Abnormality Detection for LCM Based on TCON Module-by-Module Reset

Yiyang Lin, TCL China Star Optoelectronics Technology Co., Ltd.

P 9.8 Development and Application of an AI Design Tool for Predicting the Cracking of NB Panels

Chuanghua Deng, TCL China Star Optoelectronics Technology Co., Ltd.

P 9.9 Dot Pattern Optimization of Light Guide Plate to Suppress LED Phosphor Secondary Excitation in Dual-Light-Bar Backlights

Ningning Li, Beijing BOE Display Technology Co., Ltd.

P 9.10 FPGA Architecture for Compression and Decompression Algorithms

Yuanyuan Wang, TCL China Star Optoelectronics Technology Co., Ltd.

P 9.11 High-Resolution Integral Imaging 3D Display based on Liquid Crystal Prism Array

Pinhui Li, Beihang University

P 9.12 Improvement Scheme and Evaluation Method for Color Space Crosstalk based on RGB Backlight

Yizhuo Zhao, TCL China Star Optoelectronics Technology Co., Ltd.

P 9.13 Lifetime Compensation Scheme for Oxide Active Privacy Displays

Pengkun Zheng, Visionox Technology Inc.

P 9.14 One Airborne Liquid Crystal Display Module Based on OCA In-Situ Bonding Technology

Gang Liu, Jiangsu Jinling Optoelectronics Co., Ltd.

P 9.15 One Electromagnetic Shielding and Anti-reflective LCD Module based on Magnetron Sputtered Optical Glass

Gang Liu, Jiangsu Jinling Optoelectronics Co., Ltd.

P 9.16 Optimization of Microlens Arrays for Penetration Improvement in LCDs

Mengwei Su, TCL China Star Optoelectronics Technology Co., Ltd.

P 9.17 Rapid Improvement Research on Edge Darkening of Mini BLU Based on Brightness Balance

Jingjun Du, BOE Technology Group Co., Ltd.

P 9.18 Research on Fragment Issues During Weight Drop Test of NB Modules

Jingtao Wang, Wuhan China Star Optoelectronics Technology Co., Ltd.

P 9.19 Research on High-Speed Signal Transmission and PCB Stackup Design

Zuwei Weng, BOE Technology Group Co., Ltd.

P 9.20 Research on Ultra High-Definition Video Encoding and Decoding Technology

Chensi Wu, China Electronics Standardization Institute

P 9.21 Thermal Technology Research for 4K High-Brightness Single LCD Projector

Na Lei, Beijing BOE Display Technology Co., Ltd.

P 9.22 Types of Abnormal Noises in Touch-Enabled Modules and Preventive Measures

Ming Zhou, TCL China Star Optoelectronics Technology Co., Ltd.

P 9.23 Comprehensive Modeling and Analysis of Direct-Lit Mini LED TV Backlights for Enhanced Contrast

Ke Wang, Hisense Visual Technology Co., Ltd.

P 9.24 Interfacial Engineering Regulation and Synergistic Optimization of Low-Frequency Flicker Induced by Liquid Crystal Contamination

Hongzhen Huang, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 9.25 Development of Ultra-High Refresh Rate Gaming Displays with High Mobility Oxide TFT-LCD

Ruiqi Wu, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 9.26 A GD32 MCU-Integrated LCD Module with Abnormality Detection Capability

Kairui Ren, BOE Technology Group Co., Ltd.

P 9.27 The Single-Power Architecture: Simplifying Design and Enhancing Compatibility in HMI Systems

Yikun Huang, Beijing BOE Display Technology Co., Ltd.

P 9.28 Compressed Light-Field Based 3D Display Solution for Automotive Applications

Hongbin Huang, Hefei University of Technology

P 10 Micro LED

P 10.1 A DBR-Inspired Mini-LED Solution Addressing Superior Optical Performance in MLCD Hybrid Splicing Display

Junyang Nie, TCL China Star Optoelectronics Technology Co., Ltd.

P 10.2 A Novel Integrated Framework for Enhancing Linearity of PWM-Driven Micro-LED Pixel Circuits

Xuyang Jiang, Shanghai University

P 10.3 A Novel Mass Transfer Technology: Direct Transfer Technology Demonstrates High Efficiency for Micro-LED Display

Bin Wang, University of Electronic Science and Technology

P 10.4 A Simulation Study on the Spectral Blue Shift in Red Micro-LEDs

Hang Yang, Southern University of Science and Technology

P 10.5 An AM Micro LED COG Display with Pixel Pitch 345um

Zhichong Wang, BOE Technology Group Co., Ltd.

P 10.6 Fabrication of Nanowire LED Arrays via Electron Beam Lithography

Zichun Li, The Hong Kong University of Science and Technology

P 10.7 High Performance Nanorods Array LED Chips for Micro-LED Display

Yingxiang Zhang, BOE Technology Group Co., Ltd.

P 10.8 Improvement of the Dark Color Uniformity with Array Planarization Layer in Micro-LED Splicing Screen

Zhenyu Jia, Shanghai Tianma Microelectronics Co., Ltd.

P 10.9 Influence of Device Geometry and 70 nm Passivation on GaN Green Micro-LED LEE

Shuxiang Fang, YunNan Minzu University

P 10.10 Investigation of the Degradation Behavior of Micro-LEDs on Different Substrates

Shan Huang, The Hong Kong University of Science and Technology

P 10.11 Low-Grayscale Performance Optimization of Micro-LED

Yanjun Zhang, Shanghai Tianma Microelectronics Co., Ltd.

P 10.12 Microstructure Design for Optical Films in Mini-LED Backlight Module

Aomeng Zheng, Hefei University of Technology

P 10.13 Monolithic GaN n-MOSFET-Micro-LED Integration as a Building Block for Complementary 2T1C Active-Matrix Microdisplays

Yanzhen Yin, Southern University of Science and Technology

P 10.14 Multi-Color Technology Enhances Color Gamut and Transmittance

Haiyun Wang, Shenzhen China Star Optoelectronics Technology Co., Ltd.

P 10.15 Optical Film Design for Ultra-Thin MiniLED Backlight Modules

Chunhui Chen, Hefei University of Technology

P 10.16 Packaging Design for Low Reflection and High Dark Color Uniformity of Micro-LED Splicing Display

Zhixuan Liang, Tianma Advanced Display Technology Institute (Xiamen) Co., Ltd.

P 10.17 Plasmon-Enhanced and Matrix-Amplified Circularly Polarized Luminescence in Chiral Semiconductor–Metal Hybrid Nanostructures

Na Yu, Shenzhen Technology University

P 10.18 Research on Heat Dissipation Design of MicroLED Transparent Display

Hailong Pan, China Star Optoelectronics Technology Co., Ltd.

P 10.19 Research on High-transmittance Hidden Display of Micro LED

Hailong Pan, China Star Optoelectronics Technology Co., Ltd.

P 10.20 Research on New Hybrid Driving Mode Based on Micro-LED in High-Brightness Applications

Xialing Liu, TCL China Star Optoelectronics Technology Co., Ltd.

P 10.21 Research on PHM Driver In Micro LED Highlighting Application

Lukang Li, TCL China Star Optoelectronics Technology Co., Ltd.

P 10.22 Research on Temperature Uniformity of Micro LED Display Modules

Zuojia Wang, TCL China Star Optoelectronics Technology Co., Ltd.

P 10.23 Simulation Study on Size-Dependent Light Extraction Efficiency in AlGaIn-based Deep-Ultraviolet Micro-LEDs

Haijing Wei, YunNan Minzu University

P 10.24 Simulation Study on the Effect of Surface Roughness Depth of Micro-LED Chips on Light Extraction Efficiency and Emission Characteristics

Hongjian Zhang, Tianma New Display Technology Research Institute (Xiamen) Co., Ltd.

P 10.25 Transparent Borderless MicroLED Display: Design and Manufacturing of Standard Tileable Screens

Liwei Zhang, Tianma Advanced Display Technology Institute (Xiamen) Co., Ltd.

P 10.26 VHG Design for MiniLED Backlight Modules

Zechao Shen, Hefei University of Technology

P 10.27 Patterned Quantum Dots for High-Resolution Full-Color Micro-LED Display

Zhaoyong Liu, The Hong Kong University of Science and Technology

P 10.28 Enhanced Light Output in InGaIn Nanorod LEDs for Advanced Display Pixel Technologies

Min-Seok Lee, Jeonbuk National University

P 10.29 Micro-LED-Enabled Photoactivated Gas Sensors and Machine-Learning-Based Electronic Noses

Yibo Liu, The Hong Kong University of Science and Technology

P 10.30 Investigation of Light Extraction Efficiency (LEE) Improvement of GaN-based Micro-LEDs with Metal Mesh Structures

Yu Zeng, Xiamen SiTan Integration Technology Limited

P 11 QD

P 11.1 AI-Enabled Automated Synthesis Platform for High-Throughput and Controlled Growth of CdTe Quantum Dots

Rui Wang, Shenzhen Technology University

P 11.2 Alcohol Induced Surface Charging of Colloidal Quantum Dots for Controllable Electrophoretic Deposition Processing

Jiaming Su, Beijing Institute of Technology

P 11.3 Benzophenone-based Photosensitive Crosslinker for High-resolution and Nondestructive Direct Photolithography of Quantum Dots

Zhixin Zhai, Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences

P 11.4 Bridging Equivalent Circuit and Carrier Dynamics: A Physical Framework for Time-Resolved Electroluminescence

Hui Bao, Beijing Institute of Technology

P 11.5 Efficient Fabrication of Full-Spectrum InP Quantum Dots via the Epitaxial Growth Method

Huangxin Cai, Hainan University

P 11.6 Enhancement of External Quantum Efficiency in Inverted Top-Emitting QLEDs via an Ultrathin Al Interlayer

Yuqi Liang, Henan University

P 11.7 Enhancing Color Purity of Blue Perovskite Light-Emitting Diodes with Phase Modulation

Baifeng Huang, Shenzhen University

P 11.8 High-Density Perovskite Pixelation with Photolithography

Beitao Ren, The Hong Kong University of Science and Technology

P 11.9 High-Efficiency Deep Red Colloidal Quantum Well Light-Emitting Diodes

Jun Gao, Sun Yat-sen University

P 11.10 High-Efficiency Inverted Top-Emitting Quantum Dot Light-Emitting Diodes with an Al/Ag Composite Anode

Yulong Wang, South China University of Technology

P 11.11 Light Extraction for QLEDs Based on Optical Tunneling and Surface Plasmon Polariton Decoupling

Yuhan Li, Southern University of Science and Technology

P 11.12 Lithium Bromide Engineered Blue Perovskite Light-emitting Diodes

Qiuyu Zhou, Shenzhen University

P 11.13 Low Dark Current and High Specific Detectivity Ultraviolet Photodetectors based on AlGaIn/GaN Multi-channel LE-HEMTs

Yuchen Liu, Shanghai University

P 11.14 Mn²⁺-Driven Size Engineering and Optical Tuning of InP Quantum Dots for Standard White-Light Emission

Yujie Song, Hainan University

P 11.15 Nanoparticle Modification of Hydrophobic SAMs for High-efficiency Perovskite LEDs

Fanghao Ye, Shenzhen University of Information Technology

P 11.16 Narrow-FWHM Red-Emitting InP Quantum Dots Synthesized with In (I)Cl Precursor

Yujie Song, Hainan University

P 11.17 Performance Regulation and Mechanism Investigation of InP@SiO₂@TiO₂ Nanocomposites

Yujie Song, Hainan University

P 11.18 Pixelated Perovskite via In-Situ Crystallization within a Porous Polymer Scaffold

Jianxin Song, The Hong Kong University of Science and Technology

P 11.19 Research on the Differences in display Performance between QDDP (Quantum Dot Diffuser Plate) and QD Film

Junjie Zong, Tianma Microelectronics Co., Ltd.

P 11.20 Reverse Micelle Templated Construction of Strongly Confined Ultra-Small Perovskite Quantum Dots with Exceptionally Narrow Blue Emission

Yanliu Zhu, Tianjin University

P 11.21 Simultaneous Etching and Passivation of Perovskite Nanocrystal Surfac toward High-Efficiency Pure-Red to Deep-Red LEDs

Chuanqi Wang, Shenzhen MSU-BIT University

P 11.22 Synthesis of Pure Red and Green CdSe Quantum Dots via Hot Injection Method

Kunfeng Lin, Shenzhen MSU-BIT University

P 11.23 Tunable Cavity-Enhanced Narrowband QD Photodetectors

Jia He, Shenzhen Technology University

P 11.24 Development of High-Efficiency and High-Absorption AlGaInS/ZnS Core-Multishell Quantum Dots for Next-Generation Display Applications

Jong Ah Chae, Sungkyunkwan University

P 12 E-Paper & Flexible Display

P 12.1 A Scene-adaptive Fast Refresh Driving Method for Electrophoretic Electronic Paper Displays

Huakang Miao, Fuzhou University

P 12.2 A Visual Perception-Based Method for Quantifying Creases in Foldable Screens

Wenjing Gao, BOE Technology Group Co., Ltd.

P 12.3 Actual Measurement Method for Bending Fixture Trajectory Based on DIC Technology

Haoyang Xia, Tianma Microelectronics Co., Ltd.

P 12.4 Analytical Investigation of Flexible OLED Panels Considering the Nonlinear Characteristics of Adhesive Interfaces

Haohui Rong, Hefei University of Technology

P 12.5 Beyond the Inorganic Layer: How Molybdenum Columnar Grains Compromise Strength of Flexible OLED Panels

Chiming Jin, Tianma Microelectronics Co., Ltd.

P 12.6 Brightness-Preserving Dynamic Histogram Equalization for Low-Power Electrophoretic Displays

Jia Wei, Fuzhou University

P 12.7 *Distinguished Student Paper*: Clipping-Free DBS with Partition Fusion and Inter-Frame Correlation for μ -Fluidink Video Display

Xinyue Liu & Congyi Chen, Nanjing University

P 12.8 Distortion-Free Stretchable Display Utilizing Negative Poisson's Ratio Glass-Fiber Reinforced Elastomer Substrate

Hyun Seok Kang, Korea Advanced Institute of Science and Technology (KAIST)

P 12.9 Dual-mode Electrophoretic Display Device based on QD/TiO₂ and CuCr₂O₄

Ruihan Lin, Fuzhou University

P 12.10 Exploring Doping Mechanisms and Modulating Carrier Concentration in Copper Iodide: Applications in Thermoelectric Materials

Siyeon Choi, Sungkyunkwan University

P 12.11 I-BioTENG: A Biomimetic Triboelectric Nanogenerator with Gradient Micro-Dome and Cochlea-Inspired Back Cavity for High-Sensitivity Artificial Throat

Xinyue Yang, Fuzhou University

P 12.12 Lattice Boltzmann Method for Accurate and Efficient Simulation of Electrowetting-based Reflective Display

Haorong Zhu, South China Normal University

P 12.13 Multilayer Auxetic Stretchable PCB for Distortion-Free Active LED Matrix Display

Jia Tang, Korea Advanced Institute of Science and Technology (KAIST)

P 12.14 Process-Induced Structural Defects and the Crack Propensity in Flexible OLED Panels

Chiming Jin, Tianma Microelectronics Co., Ltd.

P 12.15 Research on the Influence of Different Plasma Conditions on the Water Contact Angle of UTG Surface

Shen Chong, Hefei Visionox Technology Co., Ltd.

P 12.16 SLTS-ResNet: A Self-Powered Silent Speech Recognition System Based on Laryngeal Vibration Triboelectric Sensor and Deep Learning for Assistive Communication

Xinyue Yang, Fuzhou University

P 12.17 Study of CMC Piezoresistive Sensor Integrated with ITZO TFT for Enhanced Sensitivity

Mei Yang, South China University of Technology

P 12.18 Study on the Precipitation of UTG after the Reliability Experiment

Xiaonan Miao, Hefei Visionox Technology Co., Ltd.

P 12.19 Research on Less mask Process of LCD Oxide Electronic Paper

He Liu, China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 13 LCT

P 13.1 A 65-inch True 4K WRGB Liquid Crystal Display with Novel Pixel Design

Yi Li, TCL China Star Optoelectronics Technology Co., Ltd.

P 13.2 A Breakthrough in Field-Sequential Color Display: Development of an 85-Inch Large-Size Prototype with High Brightness, Low Power Consumption, and Superior Image Quality

Miao Lin, TCL China Star Optoelectronics Technology Co., Ltd.

P 13.3 A Comprehensive Approach to High-Performance Fresnel Liquid Crystal Lenses

Yue Liang, BOE Technology Group Co., Ltd.

P 13.4 A study of Methods to Reduce Image Sticking in HVA LCDs

Lisong Fu, Suzhou China Star Optoelectronics Technology Co., Ltd.

P 13.5 A Study on Heat Dissipation Optimization in Notebook LCD Modules

Xuefei Jiang, Guangzhou China Star Opto-electronics Semiconductor Display Technology Co., Ltd.

P 13.6 Ambient Light Reflection Suppression in LCDs

Danni Yan, Shenzhen China Star Optoelectronics Technology Co., Ltd.

P 13.7 Analysis and improvement of PI EUV sensitivity mura in TV Products

Jing Wang, Wuhan BOE Optoelectronics Technology Co., Ltd.

P 13.8 Control of Silver Nanowires in Liquid Crystals by Optical Gradient Forces of an Airy Beam

Maoquan Tang, Donghua University

P 13.9 Coupled Regulation of BM/PS Design Parameters and Construction of a Multi-Dimensional Verification System for PS Mura Suppression in Display Devices

Yanchun Lu, BOE Technology Group Co., Ltd.

P 13.10 Development of High Birefringence Liquid Crystal Materials with Fast Response Speed

Lu Zhang, Xi'an Modern Chemistry Research Institute

P 13.11 Distinguished Student Paper: Development of Inkjet-Printed Color Photoresist as an Alternative to Photolithography

Nianjia Li, Shenzhen MSU-BIT University

P 13.12 Electrically Tunable Nanocolloidal Lens for Augmented Reality System

Syed Ali Sahul Hameed, Sungkyunkwan University

P 13.13 Front-light Guide Film Full-Color Reflective LCD

Penghui Liu, TCL China Star Optoelectronics Technology Co., Ltd.

P 13.14 Green Packaging Material for the LCD Panel Industry Development and Application of 100% PCR EPS Eco-Friendly New Material

Yufeng Que, TCL China Star Optoelectronics Technology Co., Ltd.

P 13.15 Holography Based on Liquid Crystal Geometric Phase Devices for Horizontal Position Multiplexing of Cylindrical Vector Beams

Minghe Chi, Shenzhen University

P 13.16 Image Quality Improvement of LCD Screen with Enhanced Transmittance

Qinsheng Chen, TCL China Star Optoelectronics Technology Co., Ltd.

P 13.17 Improve Product Contrast through Process, Design, and Material Improvement

Long Sun, Changsha HKC Optoelectronics Technology Co., Ltd.

P 13.18 New Display Technology of Partition Refresh Based on LTPS Panel

Zhou Zhou, Wuhan China Star Optoelectronics Technology Co., Ltd.

P 13.19 Novel Self-aligned Liquid Crystal Materials for Polyimide-free Liquid Crystal Displays

Hao Zhou, TCL China Star Optoelectronics Technology Co., Ltd.

P 13.20 Optical Characteristics Study of Liquid Crystal Display with High-Performance Anti-glare and Low-reflection films

Lulin Xiong, TCL China Star Optoelectronics Technology Co., Ltd.

P 13.21 Realization and Characterization of Liquid Crystal Gratings Using a Liquid Crystal Spatial Light Modulator

Zhenyu Xiong, Donghua University

P 13.22 Research and Establishment of a Low-Frequency Display Simulation Model for Liquid Crystals

Haiyao Liang, BOE Display Technology Co., Ltd.

P 13.23 Research on Improvement Methods for Brightness Disparity in LCD Spliced Screens

Huan Xin, Dept. of Inform. Display

P 13.24 Research on Simulation and Optimization of LCD Panel Splicing Box Packaging for Improving Transportation Loading Rate

Shaoyong Li, TCL China Star Optoelectronics Technology Co., Ltd.

P 13.25 Research on the Influence of Circuit Drive on Low-Frequency Flicker of LCD

Xinxia Zhang, BOE Technology Group Co., Ltd.

P 13.26 Research on the Optimization Design of Panel Border Light Leakage Using BPS Technology

Junxiang Mo, Dept. of Inform. Display

P 13.27 Simulation and Optimization for Reflectivity in Color-Filter on Array LCDs

Xin Wan, TCL China Star Optoelectronics Technology Co., Ltd.

P 13.28 Strategic Design of New Anisotropic Compounds for the Creation of Nanocomposite Materials

Vladimir. S. Bezborodov, Belarusian State Technological University

P 13.29 Study on the Structural and Optical Properties of a Single-Layer Oblique Heliconical Cholesteric Total-Reflection LCD

Danxing Hou, Beijing BOE Optoelectronics Technology Co., Ltd.

P 13.30 The LED Spectrum Analysis on Viewing Angle Color Shift LCD Panels

Mao Zhou, Chongqing HKC Optoelectronics Technology Co., Ltd.

P 13.31 The Study on DIT Technology Applied to VA-Type TFT LCDs

Hongling Zhu, Chuzhou HKC Optoelectronics Technology Co., Ltd.

P 13.32 Topic: Effects of AgNWs Dispersion on Microdomain Alignment Performance in Liquid Crystals

Baixing Li, Donghua University

P 13.33 Study of Low Gray Scale White Dot Mura on ADS LCDs Use Negative Liquid Crystal

Heng Zhang, Hefei BOE Display Technology Co., Ltd.

P 13.34 Research on Back-Channel-Etched Amorphous Oxide Semiconductor Thin-Film Transistor Devices Based on 4Mask Extreme Fabrication Process

Meiqi Liu, China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 13.35 Enhancing Image Quality with a 300Hz LCD Notebook: The Super-Flip New Pixel Design

Ji Zhou, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 13.36 Development of High-Refresh Rate Panels Based on High-Mobility Oxide Technology

Yahui Xie, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 13.37 A New Dual Gate LCD Design with DLG Support for High Transmittance

Xin Zhang, BOE Technology Group Co., Ltd.

P 13.38 Reconfigurable Exotic Liquid Crystal Elastomer "Smart" Surfaces via Hot Embossing

Lansong Yue, Eindhoven University of Technology

P 14 OLED

P 14.1 A Discussion of the Mechanics Analysis of Panel from the Perspective of Multi-Scale

Jinwen Hu, Hefei Govisionox Technology Co., Ltd. (Visionox's Affiliated Company)

P 14.2 A Narrow Bezel 14-inch Ink-Jet-Printing OLED Notebook Driven by a Pixel Circuit Using Oxide TFT

Dong Yuan, TCL China Star Optoelectronics Technology Co., Ltd.

P 14.3 A New Solution for Rapid in Situ Identification of TFE Peeling Risks and Effectiveness of Failure Improvement

Shunqi Tang, Tianma Microelectronics Co., Ltd.

P 14.4 A Novel In-cell Ambient Light and Color Temperature Sensor with High Accuracy that Applied on OLED Display

Ning Kang, Tianma Microelectronics Co., Ltd.

P 14.5 A Novel Pol-less OLED Display with In-cell Large-Area Fingerprint Sensor Recognition

Mengying Jiang, Tianma Microelectronics Co., Ltd.

P 14.6 A Ray-Tracing-Based Modeling Framework for Backlight Leakage in OLED Displays

Chenglong Yang, Chengdu BOE Optoelectronics Technology Co., Ltd.

P 14.7 A Study on Enhancing the Structural Performance of Narrow-Bezel Display Modules

Xiujian Wan, Wuhan Tianma Microelectronics Co., Ltd.

P 14.8 A Study on the Optical Design of CFOT Using Intelligent Algorithms

Hao Chen, Tianma Microelectronics Co., Ltd.

P 14.9 A TCAD Capacitance Simulation Model to Investigate Parameter Effects on Temperature-Induced Color Shift and Motion Blur in OLEDs

Zixiang Xia, Shanghai Jiao Tong University

P 14.10 Airtightness Enhancement in Flexible OLED Modules Using Mechanically Foamed SCF

Yu Gu, Visionox Technology Inc.

P 14.11 AMOLED Optics De-Mura Pre-compensation Technology

Jingxiang Zhou, Tianma Microelectronics Co., Ltd.

P 14.12 The Multilayer PE-CVD Thin Film Encapsulation for Enhanced Light Extraction Performance of Top Emission OLED

Xinyang Pei, Yungu (Gu'an) Technology Co., Ltd.

P 14.13 Analysis of Mechanisms and Improvement of Image Sticking through Comparison between Flexible and Rigid 8T1C LTPS OLED Display

SooHong Kim, Chengdu BOE Optoelectronics Technology Co., Ltd.

P 14.14 Analysis of Narrow Corner Border Layout Design for AMOLED Screen

Shengwu Zhang, Tianma Display Technology Co., Ltd.

P 14.15 Analysis of Pink Discoloration in Polarizer-Free OLED Panels after Sunlight Aging

Lanfeng Hu, Wuhan Tianma Microelectronics Co., Ltd.

P 14.16 Analysis on Influence and Mechanism of Physical Tempering Derived Technology on Anti-Crack Propagation Performance of Thin-Film Transistors

Jianlong Wu, Tianma Microelectronics Co., Ltd.

P 14.17 Aperture Design in Power Lines for Improved Bottom Uniformity of Medium- and Large-Size OLED Panels

Chao Hu, TCL China Star Optoelectronics Technology Co., Ltd.

P 14.18 Application Status of Single-layer PLN Planarization in Inkjet Print OLED

Hui Wang, TCL China Star Optoelectronics Technology Co., Ltd.

P 14.19 Applications of OCR Printing Technology in OLED Manufacturing Process

Fangyuan Wang, TCL China Star Optoelectronics Technology Co., Ltd.

P 14.20 Charge Generation Layer Multi-Stacking Strategy for High-Efficiency Tandem Organic Light Emitting Diodes

Yejin Kim, Sungkyunkwan University/Samsung Institution of Technology

P 14.21 Connecting Analytical and Numerical Models of Luminance Degradation in Organic Light Emitting Diodes

Lu Zhang, Fluxim AG

P 14.22 Development of a Dry-Process-Compatible Antimony-Based Photoresist for Ultra-Fine OLED Micro-Nano Patterning

MINKYU Kim, Sungkyunkwan University

P 14.23 Research on Enhancing OLED Optical Uniformity Based on Display Module Heat Dissipation Systems

Xiang Gao, Chengdu BOE Optoelectronics Technology Co., Ltd.

P 14.24 Efficient Solution-processed Deep-blue TADF OLEDs Realized by Star-shaped Cross-linkable Hole Transport Materials

Jiaxu Bai, Tianjin University

P 14.25 Examining High-performance Cushioning Adhesive with Excellent Ant-ghosting Capability for AMOLED Display

Xuelin Fan, Hefei Visionox Technology Co., Ltd.

P 14.26 High-Efficiency Non-doped Deep Blue with Low Efficiency Roll-Off using Oxazole Based on Hybridized Local and Charge-Transfer Emitters

Xiufeng Zhou, University of Electronic Science and Technology of China

P 14.27 High performance OLEDs Achieved with an Optimized Multi-Layer CPL Structure

Tiantian Li, Kunshan Govisionox Optoelectronics Co., Ltd. (Visionox's Affiliated Company)

P 14.28 High-performance Tandem OLEDs with Wide Color Gamut Covering over 95% of BT.2020

Jing Zhao, Yungu (Gu'an) Technology Co., Ltd. (Visionox's Affiliated Company)

P 14.29 IIP OLEDs Advanced Adaptive De-burn-in Algorithm

Tomoyuki Maeda, TCL China Star Optoelectronics Technology Co., Ltd.

P 14.30 Implementation of the Constitutive Model for Nonlinear Viscoelastic Materials with Damage in Finite Element Analysis

Yu Zhang, Shanghai Tianma Microelectronics Co., Ltd.

P 14.31 Improvement of Motion Blur in Low Brightness and Grayscale of OLED Display Devices

Pan Wei, Kunshan Govisionox Optoelectronics Co., Ltd.

P 14.32 In-Depth Analysis and Strategic Research on Color Stability Requirements for OLED Display Panels in High-and-Low-Temperature Environment

Mei Hao, Hefei Visionox Electronic Co., Ltd.

P 14.33 Investigating the Root Cause of Abnormal OLED Display During the Reliability Test with Reduced Clock Frequency in Addressing Circuits

Zhe Chen, Tianma Microelectronics Co., Ltd.

P 14.34 Investigation into Panel Lamination Wrinkling in OLED 4-Curved Display

Yongqian Zou, Xiamen Tianma Display Technology Co., Ltd.

P 14.35 Leveraging Deep-HOMO Red Dopant: Rational Host Selection for High-Performance Emitters

Jun Cheng, Kunshan Govisionox Optoelectronics Co., Ltd. (Visionox's Affiliated Company)

P 14.36 Machine Learning-Based Constitutive Model Calibration and Simulation for Materials of Foldable OLED Modules

Keyu Chen, Huazhong University of Science and Technology

P 14.37 New Applications for Solving EMC in Display Modules

Deqiang Yu, Yungu (Gu'an) Technology Co., Ltd. (Visionox's Affiliated Company)

P 14.38 New Thin Film Encapsulation Structure in Flexible OLED Consisting of ALD and CVD

Jaeyoung Lee, Chengdu BOE Optoelectronics Technology Co., Ltd.

P 14.39 Novel Design & Improved Manufacturing of OLEDs For AR Application

Junbo Wei, Yunnan Invsight Optoelectronics Technology Co., Ltd.

P 14.40 Novel Module Shape and Improved Manufacturing of OLEDs

Junbo Wei, Yunnan Invsight Optoelectronics Technology Co., Ltd.

P 14.41 Investigation of Factors Influencing Residual TMAH in OC

Shen Peng, Wuhan Tianma Microelectronics Co., Ltd.

P 14.42 A Low-reflection Device Based on In-cell Absorption Layer for Polarizer Free OLED Panel

Junshu Li, Yungu (Gu'an) Technology Co., Ltd.

P 14.43 Optimization of Inkjet Printhead Design for Enhanced Jetting Performance Based on Bidirectional Fluid-Structure Interaction

Jinghao Tian, Huazhong University of Science and Technology

P 14.44 Optimization of Top Emitting Green OLED Device Performance Using DBR Structure

Le Chen, BOE Technology Group Co., Ltd.

P 14.45 Optimized Process route for Improving the Structural Damage of Micro OLED Lens

Shixin Wang, BOE Technology Group Co., Ltd.

P 14.46 Physics-Guided Neural Compensation for Reliable OLED Lifetime Prediction Across Duty Cycles

Jing Yang, Shanghai University

P 14.47 Research and Improvement of Local Thermal Effects at IC Location of Hybrid OLED Screen

Xiufeng Zhou, MianYang HKC Optoelectronics Technology Co., Ltd.

P 14.48 Research of Manipulating the Height of the Pinpoint of Emissive Layer in Inkjet Printing OLEDs

Jinke Chen, TCL China Star Optoelectronics Technology Co., Ltd.

P 14.49 Research on Brightwave During the Lifetime Measurement of Solution-processed OLED

Dengfeng Mei, TCL China Star Optoelectronics Technology Co., Ltd.

P 14.50 Research on Evaluation Method for Transmittance of Conventional OLED Display Panels and Visual Perception Optimization

Mei Hao, Hefei Visionox Electronic Co., Ltd.

P 14.51 Research on Fabrication Techniques and Applications of FMM for Large-Scale Evaporative OLEDs

Dan Chen, Jihua Laboratory

P 14.52 Research on Low-Pressure Injection Molding Technology for Ultra-Narrow Bezel Flexible OLED Modules

Huan Zhao, Visionox Technology Inc.

P 14.53 Research on Mechanical Strength Improvement of OLED Display Modules through Process Optimization under the Ultra-Thinning Trend

Qifeng Zhu, Xiamen Tianma Display Technology Co., Ltd.

P 14.54 Research on Optimization Methods for ALS Sensor Performance of COE OLED Display

Bin Liu, Chengdu BOE Optoelectronics Technology Co., Ltd.

P 14.55 Research on the Adhesion Failure Mechanism of PET HC for Foldable OLED Displays under High - Temperature and High - Humidity Conditions

Panpan Wang, Yungu (Gu'an) Technology Co., Ltd. (Visionox's Affiliated Company)

P 14.56 Research on the Influence Factors and Improvement Directions of Crease in Foldable OLED Displays

Xuwei Wei, Xiamen Tianma Display Technology Co., Ltd.

P 14.57 Research on the Influence of Key Design Parameters of Pixel Hole Morphology in AMOLED on the Tensile Force of Fine Metal Masks

Tengyu Wang, Yungu (Gu'an) Technology Co., Ltd. (Visionox's Affiliated Company)

P 14.58 Research on the Methods of OLED Back Plate Organic Layer to Enhance Low-Gray-Level Color Accuracy

Xin Zhou, Chengdu BOE Optoelectronics Technology Co., Ltd.

P 14.59 Research on the Technology for Improving the Low Gray-Scale Turn-on Delay of OLEDs

Jun Lin, Kunshan Govisionox Optoelectronics Co., Ltd.

P 14.60 Samarium Charge Generation Assistant Layer for Improved Electron Injection in Tandem Organic Light Emitting Diodes

Jincheol Jang, Sungkyunkwan University

P 14.61 Seamless Switching Technology of Pixel Clock on AMOLED Notebook Display

Zhongjie Wang, Chengdu BOE Optoelectronics Technology Co., Ltd.

P 14.62 Simulation Analysis of Pixel-Level Temperature Field Distribution for Silicon-Based OLEDs

Baocen Wang, Hefei University of Technology

P 14.63 Simulation and Experiment: Research on the Strain Regulation Scheme for Narrow Bezel Bending Based on the Parameter Control

Sifan Zhong, Hefei Visionox Technology Co., Ltd.

P 14.64 Star-Shaped Deep-Blue Imidazole-Based Emitter for Highly Efficient Organic Light-Emitting Diodes

Siyang Liu, Shenzhen Institute of Information Technology

P 14.65 Structural Optimization Design of Carbon Fiber Supporting Layer in Foldable OLED Module

Liting Huang, Huazhong University of Science and Technology

P 14.66 Study of UTG Defect Prediction Model Based on Central Tensile Stress (CT) Thresholds and Push-Bending Testing

LEE SUK HO, Xiamen Tianma Display Technology Co., Ltd.

P 14.67 Study on the Mechanism of Green Edge of Circular Wearable AMOLED under Low Brightness and Low Gray Scale

Jintao Liu, Visionox Technology Inc.

P 14.68 Study on the Mechanism of H-direction Stripes Relating to EM Pulse

Jintao Liu, Visionox Technology Inc.

P 14.69 Study on the Readability Evaluation Metrics of OLED Display Panels under Ambient Lighting Conditions

Mei Hao, Hefei Visionox Electronic Co., Ltd.

P 14.70 Study on the Transient Luminance Overshoot Characteristics of Tandem OLED Devices

Hui Pang, Beijing Visionox Technology Co., Ltd.

P 14.71 The Effect of Molecular Migration in High-Refractive-Index Photoresists on Light Extraction in OLED Displays

Lanfang Hu, Wuhan Tianma Microelectronics Co., Ltd.

P 14.72 The Influence of Oxide TFT V_{th} Drift in Diode-Like Type Pixel Circuits on OLED Display Quality

Xiufeng Zhou, MianYang HKC Optoelectronics Technology Co., Ltd.

P 14.73 The OLED with an Extremely Low Proportion of Harmful Blue Light and Excellent Viewing Angle Performance

Xuesen Zhao, Yungu (Gu'an) Technology Co., Ltd.

P 14.74 The Profound Study of the Novel Strong Micro Cavity Stack OLED Devices with Different Intermediate Composite Electrodes and Inverted Structure

Wenbin Jia, Hefei BOE Joint Technology Co., Ltd.

P 14.75 The Reduction of the Diffraction in Pol-Less OLED

Dong Wan Kang, LinkGlobal21

P 14.76 A Novel Pixel Circuit Compensating for TFT V_{th} Variation and VSS IR Rise in AMOLED Displays

Yi Gong, Anhui Jianzhu University

P 14.77 Enhancing the Impact Resistance of Thin Cover Glass via a Multilayered Composite Structure

Liang Li, Xiamen Tianma Display Technology Co., Ltd.

P 14.78 AI-driven OLED Optical Simulation Platform

Pengpeng Dai, Chengdu BOE Optoelectronics Technology Co., Ltd.

P 15 Printed Display

P 15.1 Research on Ultra Narrow Line Width Electrohydrodynamic Inkjet Printing Silver Electrode

Huacheng Tang, South China University of Technology

P 15.2 Low-Temperature Preparation of ZrAlO_x Composite Dielectric Films by Self-Combustion Method and Application in Devices

Xuecong Fang, South China University of Technology

P 15.3 Inkjet Printing and Swelling Control: Enhancing the Photoluminescent Properties of AIE Patterns through Aggregation State Regulation

Yuting Zhou, Shenzhen Technology University

P 15.4 Study on the Basic Characteristics of an Alternating Pressure Capillary Air-Floatation Platform for Printed Display Manufacturing

Yuxuan Tang, Huazhong University of Science and Technology

P 15.5 UV-ozone-modified Direct Soft Imprint Lithography for Residue-free Ag Patterning

Qi Zhou, South China University of Technology

P 15.6 An Electrohydrodynamic Inkjet Printing System for Defect Repair

Wei Xu, South China University of Technology

P 15.7 Enhancing On-State Current in Oxide TFTs via Gate Insulator Dry-Etching Optimization

Jiong Wang, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 15.8 Low-Cost Mask-Free Patterning of Microscale Silver Loop Electrodes Using Electrohydrodynamic Jet Printing

Hengrong Xu, South China Normal University

P 16 Projection

P 16.1 Compact Optical engine design for HDR Laser Display System Based on Dual Spatial Light Modulators

Jingyu Nie, Ocean University of China

P 16.2 Dual-Axis Electromagnetic MEMS Scanner for Laser Projection Display

Zihao Chen, Shenzhen University

P 16.3 Pixel Super-Resolution Algorithm based on Error Diffusion

Wei Wu, Shanghai Tianma Microelectronics Co., Ltd.

P 16.4 Research on Deep Learning-Based Color Calibration Method for Laser Projection Display

Ranwei Chen, Ocean University of China

P 16.5 Research Progress and Prospect of GaAs-based Red Semiconductor Lasers for Laser Display

Zhihao Wang, Hisense Laser Display Co., Ltd.

P 16.6 Study on Color Speckle Suppression Based on LD/LED Hybrid Light Sources for Laser Display

Zhilong Huang, Ocean University of China

P 17 Lighting

P 17.1 High-frequency Excited LED Measures Minute Displacements

Aochen Du, Yili Normal University

P 17.2 Low-cost Micro-LED Back Light Unit for Liquid Crystal Display

Xianqin Meng, BOE Technology Group Co., Ltd.

P 17.3 Monolithic High-Voltage MicroLED for Automotive Interior Lighting

Zhixuan Liao, National United University

P 17.4 Notebook Product Noise Analysis and Optimization Designed

Dan Wu, TCL China Star Optoelectronics Technology Co., Ltd.

P 18 Touch and Interactive Display

P 18.1 Using Context Based Touch Pause Scan to Reduce Touchscreen Power Consumption on Laptop Device

Even Xu, Intel Corporation

P 18.2 A Solution for Enabling TOP Touch to Automatically Avoid Frequency Interference from OC GOA

Jibin Liang, Shenzhen China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 18.3 A Study on the Relationship between Display Layer Structure and the Attenuation of Under-Display Ultrasonic Fingerprint Signals

Ping Tan, Guangzhou Govisionox Technology Co., Ltd. (Visionox's Shareholding Company)

P 18.4 A Floor-Embedded Pressure Display System for Real-Time Human Activity Visualization

Zhenping Xia, Suzhou University of Science and Technology

P 18.5 A Step-Counting Circuit Module for Liquid Metal/PDMS Porous Sponge Gait Sensing Units

Shijie Zhang, Fuzhou University

P 18.6 Optimizing Touch Control IC Algorithms to Address Ghost Touch Issues Caused by Tiny Foreign Objects

Jianghua Hu, TCL China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 18.7 A Synchronous Rhythm-Driven Circuit for Gait Rehabilitation Training

Anxin Zhang, Fuzhou University

P 18.8 An In-Sensor Computing Array for Noise Reduction and Edge Detection Based on Oxide TFTs

Renxu Wu, South China University of Technology

P 18.9 Applications of Composite Photoelectric Sensors in Interactive Displays

Jiacheng Feng, TCL China Star Optoelectronics Display Technology Co., Ltd.

P 18.10 Design and Optimization of a Flexible Optical Tactile Sensing Interface Based on Setfos Simulation—Opto-Mechanical Coupling Mechanism and Its Simulation Verification for Robot Interaction

Ting Xu, Shenzhen University of Information Technology

P 18.11 Dual-Functional ITZO TFT Based Sensor for Pressure and Ultraviolet Detection

Qiuyu Li, South China University of Technology

P 18.12 Integration of Composite Photoelectric Sensors for Advanced Display Interaction

Jiacheng Feng, TCL China Star Optoelectronics Display Technology Co., Ltd.

P 18.13 Investigation of Generation Mechanism and Improvement Strategies for Horizontal Streaks in In-cell Display Touch Panels

Min Xu, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 18.14 Research on Stability Improvement of Integrated Ambient Light Sensors

Liming Peng, Wuhan China Star Optoelectronics Technology Co., Ltd.

P 18.15 Remote Interactive Positioning Based on Scattering Films for Large-Screen

Ziyuan Guo, Shanghai Jiao Tong University

P 18.16 Stability-Optimized Hydrothermally Grown ZnO Nanorod Integrated IZO TFT Force Sensors for Integrated Tactile Interfaces

Dantong Wang, South China University of Technology

P 18.17 Real In-cell Integrated Touch Sensor for Flexible OLED Display

Lihua Wang, Hefei Visionox Technology Co., Ltd.

P 19 Vehicle Display

P 19.1 Impact of the Helmholtz-Kohlrausch Effect on Automotive Displays

Karlheinz Blankenbach, Pforzheim University

P 19.2 Research on High Brightness PGU Technology for IRIS HUD

Lingyan Li, Tianma Microelectronics Co., Ltd.

P 19.3 Research on Holographic Diffusers with High Diffraction Efficiency and Large Eyebox

Yue Zhang, Hefei University of Technology

P 19.4 Research on Optical Performance Non-Uniformity of Flexible OLED Automotive Displays under Bending Stress

Gaohui Xie, Guangzhou Govisionox Technology Co., Ltd. (Visionox's Shareholding Company)

P 19.5 Research on Vehicle Display Technology Based on Mini-LED and Quantum Dots

Zhikai Wang, Shenzhen Planck Innovation Technology Co., Ltd.

P 19.6 Research on Visibility Phenomena Induced by Anode Surface Non-Flatness

Yamei Gao, Chengdu BOE Optoelectronics Technology Co., Ltd.

P 19.7 Study on Influencing Factors and Improvement of LO Light Leakage in HFS Liquid Crystal Display under External Force

Xudong Wang, Guangzhou China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

P 19.8 Vehicle Optical Display Quality at High and Low Temperatures

Jiaxin Ye, Guangzhou Govisionox Technology Co., Ltd.

P 19.9 Visual Brilliance Meets Eco-Friendliness: High-Performance Automotive Displays Based on Eco-friendly Quantum Dots System Technology

Dandan Chu, Tianma Microelectronics Co., Ltd.

P 19.10 Integrated Optimization of Layer Stress and Mechanical Systems for Dynamic Bending OLED Displays

Zhihao Li, Visionox Technology Co., Ltd.

P 19.11 The Uniformity of Dynamic Bending OLED Display for Automobile Cockpit

Zhihao Li, Visionox Technology Co., Ltd.

**P 19.12 Research on the Calibration Problem of Virtual and Real Scene Coordinate Systems
Corresponding to Head-Up Displays in Smart Cockpit Systems**

Shi-Hwa Huang, Taiwan University of Science and Technology

