

IMiD 2020

The 20th International Meeting on Information Display
August 25 - 28, 2020 / Online Conference

Topic Title: 09. Display Optics - 3D Displays

Session Title: 05. Poster Session 9

[05_09_1166]

One-Way Observable Aero Signage Display Which Enables to Make Transparent View from Back Side Using Dye-Doped Optical Resin Blocks

Kunio Sakamoto and Mao Ishikawa (Konan Univ., Japan)

[05_09_1209]

Enhanced Photon Counting 3D Reconstruction Method Using Merging Layer

Jaehoon Lee (Kyushu Inst. of Tech., Japan), Kotaro Inoue, Myungjin Cho (Hankyong Nat'l Univ., Korea), and Min-Chul Lee (Kyushu Inst. of Tech., Japan)

[05_09_1210]

Optical Distance Calculation Method between Vehicles Using Dashcams and License Plates

Jaehoon Lee (Kyushu Inst. of Tech., Japan), Kotaro Inoue, Myungjin Cho (Hankyong Nat'l Univ., Korea), Hyun-Woo Kim and Min-Chul Lee (Kyushu Inst. of Tech., Japan)

[05_09_1211]

High-Speed Depth Prediction Technique of Integral Imaging based on Path Tracing

Min-Chul Lee, Masaharu Tashiro, Jaehoon Lee (Kyushu Inst. of Tech., Japan), Kotaro Inoue (Hankyong Nat'l Univ., Korea), Naoki Konishi (Kyushu Inst. of Tech., Japan), and Myungjin Cho (Hankyong Nat'l Univ., Korea)

[05_09_1212]

Phase Averaging Method for Noise Reduction of the Digital Holographic Microscopy

Hyun-Woo Kim, Jaehoon Lee (Kyushu Inst. of Tech., Japan), Myungjin Cho, Kotaro Inoue (Hankyong Nat'l Univ., Korea), and Min-Chul Lee (Kyushu Inst. of Tech., Japan)

[05_09_1213]

Refractive Index of the Surrounding Medium Measurement Using Depth of Field of Objective Lens in the Digital Holographic Microscopy

Hyun-Woo Kim (Kyushu Inst. of Tech., Japan), Myungjin Cho, Kotaro Inoue (Hankyong Nat'l Univ., Korea), and Min-Chul Lee (Kyushu Inst. of Tech., Japan)

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[05_09_1277]

Aberration Compensation of Holographic Augmented Reality Display with Optical Path Length Based Ray Tracing Method

Seung-Woo Nam, Dongyeon Kim, Kiseung Bang, and ByoungHo Lee (Seoul Nat'l Univ., Korea)

[05_09_1281]

Optimized Random Phase for Amplitude-Only Hologram

Youngjin Jo, Dongheon Yoo, Dukho Lee, Chanhyung Yoo, and ByoungHo Lee (Seoul Nat'l Univ., Korea)

[05_09_1287]

Computer-Generated Hologram Calculation for Optical System with High Numerical Aperture Field Lens

Dukho Lee, Kiseung Bang, and ByoungHo Lee (Seoul Nat'l Univ., Korea)

[05_09_1347]

Quality Enhancement of Binary Computer-Generated Holograms by Using Error Diffusion

Kyosik Min and Jae-Hyeung Park (Inha Univ., Korea)

[05_09_1356]

Optical-See-Through Light-Field Display Using Dihedral Corner Reflector Array

Myeong-Ho Choi, Dabin Min, and Jae-Hyeung Park (Inha Univ., Korea)

[05_09_1364]

Floating Display with Compact Form-Factor Using Dihedral Corner Reflector Array

Dabin Min, Myeong-Ho Choi, and Jae-Hyeung Park (Inha Univ., Korea)

[05_09_1370]

Centroid Shift Calibration of Microlens Array for Integral Image Microscope

Shariar Md Imtiaz, Mohammed Y. Abbass, Ki-Chul Kwon (Chungbuk Nat'l Univ., Korea), Jong-Rae Jeong (Suwon Science College), and Nam Kim (Chungbuk Nat'l Univ., Korea)

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[05_09_1380]

Color Representation of the Holographic Display Using LC SLM and White LED Light Source

Hyon-Gon Choo, Kwan-Jung Oh, and Yongjun Lim (ETRI, Korea)

[05_09_1427]

Aerial Multi-Modal Guiding Illumination for Non-Contact Vein Imaging Combined with Aerial Heater and AIRR

Yuto Watanabe, Ikyua Saji, Kengo Fujii (Utsunomiya Univ., Japan), and Hirotsugu Yamamoto (Utsunomiya Univ., Japan and ACCEL, Japan)

[05_09_1450]

Viewing-Zone Free 3-D Object Navigation in Super Multi-View Displays

CHAN-HYUK LEE (KIST, Korea and Korea Univ., Korea), DAE-YONG CHO (KIST, Korea), CHANG-HUN KIM (Korea Univ., Korea), and MIN-KOO KANG (KIST, Korea)

[05_09_1487]

Interactive Three-Dimensional Multiview Display System Using a Head Tracking Camera

Md. Shahinur Alam, Young-Tae Lim (Chungbuk Nat'l Univ., Korea), Jae-Kyung Pan (Chonbuk Nat'l Univ., Korea), and Nam Kim (Chungbuk Nat'l Univ., Korea)

[05_09_1494]

Aligned Optical Bonding System for Light Field Display

Jeong Woo Park, Jae-Joong Kwon, Beom-Shik Kim, Young Sang Ha, and Seong-Chan Cho (Samsung Display Co., Ltd., Korea)

[05_09_1537]

Improvement of Holographic Image Resolution Using Ultra-High-Definition Spatial Light Modulator

Sangho Kim, Joowoan Cho, Jaeho Yu, Youngchan Kim, Byungchoon Yang (Samsung Display Co., Ltd., Korea), Geunseop Choi (KETI, Korea), Jaejoong Kwon, Jongho Hong, Sungchan Jo, Changhee Lee, and Jinhw Kwag (Samsung Display Co., Ltd., Korea)

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[05_09_1550]

Digital Content Generation for Holographic Printer based on Integral Imaging Using Ray-Wavefront Conversion

Anar Khuderchuluun, Erkhembaatar Dashdavaa (Chungbuk Nat'l Univ., Korea), Hoonjong Kang (Wonkwang Univ., Korea), and Nam Kim (Chungbuk Nat'l University, Korea)

[05_09_1593]

2D/3D Switching Full Color Digital Holographic Mobile Display Utilizing Active Switching Back Light Unit

Su-Won Lee, Min-Kyu Park, Tae-Hyun Lee (Kyungpook Nat'l Univ., Korea), Sangho Kim, Young-Chan Kim, Byungchoon Yang (Samsung Display Co., Ltd., Korea), and Hak-Rin Kim (Kyungpook Nat'l Univ., Korea)