

ISDH 2023

Detailed Program Schedule



Monday, June 26

Special Session (Lippmann Photography Workshop)

Time	Events
09:00 ~ 12:00	Lippmann Photography Workshop Filipe da Veiga Ventura Alves and Yves Genetet
12:00 ~ 13:00	Lunch

Poster Session (Track 1~7)

	How to make CHIMERA hologram with unreal engine Jinwon Choi (Kwangwoon university), Matteo Coffin (CESI), Philippe Genetet, Seunghyun Lee (Kwangwoon university)
	Characteristic of printed holographic screen with speckle pattern Yongho Jang, Whanyong Park, Jongsung Jung, Donghak Shin (Holo Lab Co. Ltd, Wonkwang University), Hoonjong Kang (Wonkwang University)
	Super resolution image generation from the complex field information generated using deep learning model Mehdi Askari, Jaehyeung Park (Inha Univeristy)
	A full-color holographic system based on the RGB-D salient object detection and taylor rayleigh-sommerfeld diffraction point cloud grid algorithms Jingwen Bu, Jiahui Ji (Yangzhou University), Qinhui Yang (Nanjing University), Yu Zhao (Yangzhou University)
13:00 ~ 16:00	Calculation technique for large backdrops filing visual field of full-parallax high-definition CGH Hirohito Nishi, Kyoji Matsushima (Kansai University)
	Fabrication method of holographic optical element (HOE) based on distortion-free reflective imaging system Erkhembaatar Dashdavaa, Hui Ying Wu, F. M. Fahmid Hossain, Kichul Kwon (Chungbuk National University), Jongrae Jeong (Suwon Science College), Sangkeun Gil (Suwon University), Nam Kim (Chungbuk National University)
	Qualified single-image depth estimation-based content generation for full-color holographic printing system Anar Khuderchuluun, Md. Biddut Hossain (Chungbuk National University), Hoonjong Kang (Wonkwang University), Seokhee Jeon (Incheon National University), Nam Kim (Chungbuk National University)
	An attention mechanism-based CNN using RGB-Depth images for computer-generated holography Dongwoo Lee, Kyeongseok Jang, Sooyoung Cho, Chaebong Sohn, Kwangchul Son

(Kwangwoon University)

Neural network-based robust full-complex hologram watermarking

Eunseong Lee, Zhenghui Piao, Jinkyum Kim, Donggyu Sim, Youngho Seo
(Kwangwoon University)

Quantization table extension for the holographic compression of JPEG pleno

Dain Lee, Byungseo Park (Kwangwoon University), Kwanjung Oh, Yongjun Lim
(ETRI), Youngho Seo (Kwangwoon University)

Recording of volume phase gratings in lithium niobate crystal and in germanate fiber using excimer nanosecond UV laser and phase mask

Vyacheslav Brunov, Maksim Kiselev, Aleksey Arsenin, Valentyn Volkov
(XPANCEO RESEARCH ON NATURAL SCIENCE L.L.C)

A study on cloud remote rendering method for visualizing volume data of holographic AR glasses

Gyubeom Lim, Seunghyun Lee (Kwangwoon University),
Gitaek Hur (Dongshin University), Soonchul Kwon (Kwangwoon University)

Comparative study of IoT sensor protocol of holographic AR glasses

Sukjun Hong, Heejun Youn, Seunghyun Lee (Kwangwoon University),
Cheongghil Kim (Namseoul University), Soonchul Kwon (Kwangwoon University)

Development of holographic technology for AR near-eye display with focus cue

Jinsoo Jeong, Jiwoon Yeom, Byounghyo Lee (KETI)

Asymmetrical holographic optical element recording method for reflected image removing on surface

Whanyong Park, Yongho Jang, Jongsung Jung, Donghak Shin (HOLOLAB, Wonkwang University), Hoonjong Kang (Wonkwang University)

18:00 ~ 20:00 **Welcome dinner (BASTILLE ROOM, 3F)**

* **Registration : 08:00 ~ 16:00 (BASTILLE ROOM, 3F)**

Hologram Exhibition : 13:00 ~ 16:00 (BASTILLE ROOM, 3F)

Tuesday, June 27 #1

Session 1 (Track 1. Art Concepts and Techniques / Track 2. Color Holography / Track 7. Business of Holography)

Chair : Alaric Hamacher (Kwangwoon University)

Time	Events
08:00 ~ 08:30	Holography industrialization by ZEISS microoptics Keynote Speaker : Stanislovas Zacharovas (ZEISS, Lithuania)
08:30 ~ 08:50	Fill-factor analysis for the augmented reality system using the full-color holographic optical element micromirror-array Nyamsuren Darkhanbaatar, Rupali Shinde, Joonhyun Kim, Kichul Kwon (Chungbuk National University), Kwonyeon Lee (Suncheon National University), Nam Kim (Chungbuk National University)
08:50 ~ 09:10	The ZZZyclops V2 color holography system Andreas Sarakinos, Alkis Lembessis (Hellenic Institute of Holography)
09:10 ~ 09:30	Promoting holographic art - Report on solo exhibition - Setsuko Ishii
09:30 ~ 10:00	Coffee Break
10:00 ~ 10:20	Digital art hologram of a sea explorer: a poetic view Maria Isabel Azevedo (Research Institute for Design, Media and Culture)
10:20 ~ 10:40	A study on the art of bonsai within a holographic ideorealm Yang Gao, Shuo Wang, Xiaoshuang Ma, Zicheng Liang, Xiaofan Liu (Beijing Institute of Graphic Communication), Yuke Duan (Gengdan Institute of Beijing University of technology)
10:40 ~ 11:00	An exploration of the concept of touch through holographic artworks Shuo Wang, Yang Gao, Jie Yang, Ardie Osanlou (Beijing Institute of Graphic Communication)
11:00 ~ 11:20	Revisiting history through virtual reality holographic art Ioana Pioaru (Ioana Pioaru Fine Art)
11:20 ~ 13:30	Lunch

* Registration & Hologram Exhibition : 08:00 ~ 16:00 (BASTILLE ROOM, 3F)

Tuesday, June 27 #2

Session 2 (Track 1. Art Concepts and Techniques)

Chair : Leehwan Hwang (Kwangwoon University)

Time	Events
13:30 ~ 14:00	Coffee Break
14:00 ~ 14:30	Rediscovering beauty: A photographic journey through the albumen Lippmann process Keynote Speaker : Filipe da Veiga Ventura Alves (Silverbox, Portugal)
14:30 ~ 14:50	Coherently breaking rules for light's sake: a condensation of a few decades recording argon lit dcg Michael E Crawford (Light Foundry)
14:50 ~ 15:10	Making holograms with iPhone Alaric Hamacher (Kwangwoon University)
15:10 ~ 15:30	The 'Real/Virtual' exhibition of holograms at Gallery 286: Exploring the use of display holography in contemporary artistic expression Sydney J. Koke (The Jonathan Ross Hologram Collection)

* Registration & Hologram Exhibition : 08:00 ~ 16:00 (BASTILLE ROOM, 3F)

Wednesday, June 28

Exhibition Session (CHIMERA Presentation / Exhibition Presentation)

Chair : Leehwan Hwang (Kwangwoon University)

Time	Events
08:00 ~ 09:00	CHIMERA Presentation Philippe Gentet
09:00 ~ 09:30	Coffee Break
09:30 ~ 09:50	Speleoholography (Online Presentation) John Klayer
09:50 ~ 10:10	Photon drawing series Setsuko Ishii
10:10 ~ 10:30	Holography at the science festival: engaging audiences with art and scientific research Pearl V. John (Southampton University, De Montfort University)
10:30 ~ 16:00	Lunch , Social Program (National Museum of Korea)

* Registration & Hologram Exhibition : 08:00 ~ 16:00 (BASTILLE ROOM, 3F)

Thursday, June 29 #1

Session 3 (Track 3. Electronic, Digital and Computer-Generated Holography / Track 5. Recording Materials and Processing)

Chair : Soonchul Kwon (Kwangwoon University)

Time	Events
08:00 ~ 08:30	Exploring the synergy of technological convergence: holography, AI, and ubiquitous computing Keynote Speaker : Michael Page (PHASE Lab, OCAD University, Canada)
08:30 ~ 08:50	Exploring angle-dependent image sharpness in reconstructed augmented reality image with holographic waveguide display Leehwan Hwang (Kwangwoon University), Taegkeun Whangbo (Gachon University), Cheongghil Kim (Namseoul University), Seunghyun Lee (Kwangwoon University)
08:50 ~ 09:10	Real-time 4K image holographic video display for real object Hiroshi Yoshikawa, Zhou Fang, Takeshi Yamaguchi (Nihon University)
09:10 ~ 09:30	Twin noise reduction of spatial light modulator with correction of phase modulation error Gunhee Lee, Woonchan Moon, Hosung Jeon, Joonku Hahn (Kyungpook National University)
09:30 ~ 09:50	EcHoLas: a compact direct-write digital holography printer Ramunas Bakanas, Andrej Nikolskij, Algimantas Stankauskas (Geola Digital UAB), Daniel Jędrzejczyk, Arne Heinrich (Pantec Biosolutions AG), Philipp Hildenstein, Katrin Paschke (Ferdinand-Braun-Institut gGmbH), David Brotherton-Ratcliffe (Geola Digital UAB)
09:50 ~ 10:20	Coffee Break
10:20 ~ 10:40	Correction algorithm for wavelength mismatch of sampled wavefield in full-color computer holography Changjoo Lee, Hirohito Nishi, Kyoji Matsushima (Kansai University)
10:40 ~ 11:00	Wide field of view high-resolution digital holographic microscope using digital micromirror device Minwoo Jung, Hosung Jeon, Gunhee Lee (Kyungpook National University), Yongjun Lim (ETRI), Joonku Hahn (Kyungpook National University)
11:00 ~ 11:20	High-quality 3D model generation from real-world object based on the depth-position mapping for holographic display Tuvshinjargal Amgalan, Munkh-Uchral Erdenebat, Shariar Md. Imtiaz, Ohseung Nam (Chungbuk National University), Seokhee Jeon (Incheon National University), Sangkeun Gil (Suwon University), Nam Kim (Chungbuk National University)
11:20 ~ 11:40	Removing holographic noise of multiple particles by using shallow U-net model based on digital holography Wei-Na Li (Shantou University), Ping Su (Tsinghua Shenzhen International Graduate School)
11:40 ~ 13:30	Lunch

Thursday, June 29 #2

Session 4 (Track 3. Electronic, Digital and Computer-Generated Holography)

Chair : Leehwan Hwang (Kwangwoon University)

Time	Events
13:30 ~ 14:00	Coffee Break
14:00 ~ 14:30	CHIMERA™ 180, a Denisyuk printer Keynote Speaker : Yves Gentet (Ultimate Holography, France)
14:30 ~ 14:50	Recent work on direct-write digital holography at geola Ramunas Bakanas, David Brotherton-Ratcliffe, Andrej Nikolskij (Geola Digital UAB), Andrejs Bulanovs (Daugavpils University)
14:50 ~ 15:10	Real-time 3D holography based on AI for near-eye displays Byounghyo Lee, Jisoo Hong, Jinsoo Jeong, Youngmin Kim, Sunghye Hong (KETI)
15:10 ~ 15:30	Full color incoherent holographic video camera with wide FOV Youngrok Kim, Wonseok Son, Sungwook Min (Kyunghee University)
15:30 ~ 15:50	Animated synthetic reality and next generation digital holography Michael Page (PHASE Lab, OCAD University), Yves Gentet (Ultimate Holography)

* Registration & Hologram Exhibition : 08:00 ~ 16:00 (BASTILLE ROOM, 3F)

Friday, June 30 #1

Session 5 (Track 4. History, Culture, and Education / Track 6. Technical Applications)

Chair : Philippe Gentet (Kwangwoon University)

Time	Events
08:00 ~ 08:30	Early holography in Sweden Keynote Speaker : Hans Bjelkhagen (Hansholo Consulting Ltd, UK)
08:30 ~ 08:50	A large-scale pulse laser holography camera built with 3D printing and surplus optics John Holdsworth (Newcastle University), Martina Mrongovius (Lake Macquarie City Council), Matthew Willis (Newcastle MWConsultancy)
08:50 ~ 09:10	Synthesis art and other applications of DCG holograms in display holography Michael Shevtsov (S. I. Vavilov State Optical Institute)
09:10 ~ 09:30	Holography, serendipity & me: the ups and downs of 75 years Ian Lancaster (Lancaster Consulting)
09:30 ~ 10:00	Coffee Break
10:00 ~ 10:20	A call to arms: margaret benyon's antiwar holograms Zsofi Valyi-Nagy (The Center for Advanced Study in the Visual Arts)
10:20 ~ 10:40	Efficient production of holograms for hands-on holography course Emanuel Istrate (Toronto University)
10:40 ~ 11:00	Art and new media: visual information recording for digital art holograms in higher education context Maria Isabel Azevedo (Aveiro University), Nuno Chuva Vasco (Coimbra Education School)
11:00 ~ 11:20	My journey from color holography to pulsed portrait, holographic printing and lenticular lens 3d display Yuan Quan (3D Holo Art Laboratory)
11:20 ~ 13:30	Lunch

* Registration & Hologram Exhibition : 08:00 ~ 16:00 (BASTILLE ROOM, 3F)

Friday, June 30 #2

Session 6 (Track 4. History, Culture, and Education)

Chair : Soonchul Kwon (Kwangwoon University)

Time	Events
13:30 ~ 14:00	Coffee Break
14:00 ~ 14:20	Holographic structures for interstellar exploration Martina Mrongovius (Lake Macquarie City Council)
14:20 ~ 14:40	Teaching hands-on the science and art of holography Emanuel Istrate (Toronto University, Victoria College), Michael Page (OCAD University)
14:40 ~ 15:00	The contributions by nils abramson to the field of holography Jonny Gustafsson (Royal Institute of Technology)
15:00 ~ 15:20	Holographic reconstruction of 360° nadar's revolving self portrait Philippe Gentet (Kwangwoon University)
15:20 ~ 15:40	Preserving display holography: what to keep, where, and why? Pearl V. John, India Cook (Southampton University, De Montfort University)
18:00 ~ 20:00	Farewell Dinner (GRAND BALLROOM, 4F)

* Registration & Hologram Exhibition : 08:00 ~ 16:00 (BASTILLE ROOM, 3F)

Saturday, July 1

Social Program (DMZ, Demilitarized Zone)

Time	Classification
~ 09:00	Departure from Sofitel
~ 10:00	Arrival at Imjingak Pavilion Tourist Information Center
~ 10:30	Arrival at the southern end of Unification Bridge
10:40 ~ 11:40	The 3rd Tunnel Tour
11:50 ~ 12:30	Dora Observatory Tour
~ 12:50	Arrival at Unification Village Direct Sales Office
13:00 ~ 14:00	Lunch
~ 15:30	Return to Sofitel