

Program at a Glance

**2022 INTERNATIONAL WORKSHOP ON ADVANCED IMAGE TECHNOLOGY
(IWAIT)**

4-6 January, 2022 • Hong Kong



All dates and times in the Technical Program are based on Hong Kong Standard Time (GMT+8).

Day 0	Tuesday, 4th January 2022	
14:00 – 17:00	IWAIT2022 Tutorial 1 Multimedia Information Security, Forensic and Privacy Speaker: Prof. Chi-Man Pun, University of Macau	IWAIT2022 Tutorial 2 Deep Learning-based Light Field Reconstruction and Processing Speakers: Dr. Junhui Hou, and Ms. Jing Jin, City University of Hong Kong

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Day 1	Wednesday, 5th January 2022		
9:00 – 9:20	Opening Ceremony (Room CD301) Welcoming Speech by General Chair Speech & Official Opening of IWAIT2022 by Guest of Honor		
9:20 – 10:00	IWAIT2022 Keynote 1 (Room CD301) Title: Gradient centralization and feature gradient decent for deep neural network optimization <i>Speaker: Prof. Lei Zhang, The Hong Kong Polytechnic University, Hong Kong</i>		
10:00 – 10:40	IWAIT2022 Keynote 2 (Room CD301) Title: Current Status of AI Support in Medical Imaging and Diagnosis <i>Speaker: Prof. Hiroshi Fujita, Gifu University, Japan</i>		
10:40 – 11:00	Tea-Break		
Room	CD301	CD302	CD303
11:00 – 11:30	Session 1A Prof. M. Tanimoto, Prof. S.H. Soon Best Paper Session I Image Processing 40, 43, 44, 63, 91, 101	Session 1B Prof. K. Murakami, Prof. PY Lau Best Paper Session II Computer Graphics and Virtual Reality 1, 47, 116, 117, 144	Special Session 1C Prof. J.H. Kim, Prof. H. Fujiya AI Start-up in Medical Imaging
11:30 – 12:00			
12:00 – 12:30			
12:30 – 13:00	Lunch		
13:00 – 13:30	Lunch		
13:30 – 14:00	Session 2A Prof. W.N. Lie, Prof. B. Jeon Best Paper Session III Computer Vision 32, 68, 88, 123, 138, 149	Session 2B Prof. S.H. Soon, Prof. Z.C. Shih Best Paper Session IV Multimedia Applications and System 34, 54, 100, 124, 159, 165	Special Session 2C Profs. K. Yoon, S. Wang, JG Kim Video Coding for Machine 89, 113, 127, 135
14:00 – 14:30			Special Session 3C Profs. C. Zhang, X. Yang, T. Fukusato, H. Xie Intelligent System Design 87, 90, 92, 94, 108, 109, 129
14:30 – 15:00			
15:00 – 15:30	Session 3A Prof. B. Jeon, Prof. W.N. Lie Best Paper Session V Machine Learning 6, 42, 59, 110, 120, 157	Session 3B Prof. PY Lau, Prof. K. Murakami Best Paper Session VI Video Coding 30, 37, 103, 134, 136, 137	
15:30 – 16:00			
16:00 – 16:30			
16:40 – 17:20	Invited Lecture 1: UHD TV – Present and Future (Room CD301) <i>Speaker: Prof. Yoshiaki Shishikui, Meiji University, Japan</i>		
17:20 – 18:00	Invited Lecture 2: (Room CD301) <i>Speaker: Prof. Lap-Phui Chau, Nanyang Technological University, Singapore</i>		

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Day 2	Thursday, 6th January 2022			
9:00 – 9:40	IWAIT2022 Keynote 3 (Room CD301) Title: From Visual Perception to Interpretable Visual Knowledge Speaker: Prof. Lin Feng, Nanyang Technological University, Singapore			
9:40 – 10:00	Tea-Break			
Room	CD301	CD302	CD303	
10:00 – 10:30	Session 4A Prof. Hitoshi Kiya Image Processing and Classification I 18, 19, 85, 156, 158, 150	Session 4B Prof. Chung Pau-Choo Multimedia Systems and Applications 14, 55, 97, 112, 131, 133	Session 4C Prof Seah Hock Soon VR and AR 2, 46, 56, 102, 122, 67	Poster I Prof. Lam Kim-man Deep Learning and Applications I 4, 10, 21, 35, 95, 98, 104, 126, 141, 146, 164
10:30 – 11:00				
11:00 – 11:30				
11:30 – 12:00	Session 5A Prof. Kim Jae-Gon Image Processing and Classification II 25, 31, 39, 83, 105, 148	Session 5B Prof. Hu Haibo Deep Learning and Applications II 3, 62, 65, 111, 142, 154	Session 5C Prof. Naoki Hashimoto 3D Processing and Applications 13, 66, 79, 107, 163, 130, 128	Poster II Prof. Hiroki Takahashi Multimedia Systems and Applications II 5, 17, 61, 64, 69, 72, 74, 75, 78, 81, 118, 119, 125
12:00 – 12:30				
12:30 – 13:00				
13:00 – 13:30	Lunch			
13:30 – 14:00	Lunch			
14:00 – 14:30	Session 6A Prof. David Hou Point Cloud Processing and Applications 33, 38, 71, 76, 132, 152	Session 6B Prof. Kosin Chamnongthai Image Understanding and Recognition 45, 50, 52, 86, 115, 147	Session 6C Prof. Guo Jing-Ming Machine Learning and Applications 9, 51, 60, 73, 99, 106	Poster III Prof. Chris Chan VR and 3D Applications 20, 22, 53, 57, 114, 160
14:30 – 15:00				
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15:30 – 16:00	Session 7A Prof. Kemaq Qian Video Processing and Applications 7, 28, 41, 80, 151, 161	Session 7B Prof. Bonnie Law Deep Learning and Applications III 36, 84, 96, 139, 140, 143,	Session 7C Prof. Shogo Muramatsu Immersive Applications 58, 82, 121, 153, 155	Poster IV Prof. Chan Y-L Image Processing and Applications 8, 11, 16, 23, 24, 26, 27, 48, 70, 93, 145, 162
16:00 – 16:30				
16:30 – 17:00				
17:00 – 17:40	Invited Lecture 3: Towards Reliable Point Cloud Quality Assessment (Room CD301) Speaker: Prof. Joao Ascenso, University of Lisbon, Portugal			
17:40 – 18:30	IWAIT2022 Best Paper Award Announcement (Room CD301)			
18:30 ~	IWAIT2022 Closing Ceremony (Room CD301) IWAIT Board Representative Closing Remark			

List of Accepted Papers

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1	Robitzki Sascha Roman, Clifford Ping Hao Eng, Hock Soon Seah and Feng Lin	Inverse Kinematics in VR Motion Mirroring	1B1
2	Shi Sheng Long and Feng Lin	Continuous Dynamic Collision Detection in VR Pool	4C1
3	Takashi Ota and Kenji Funahashi	Blending CNNs with Different Signal Lengths for Real-time EEG Classification Sensitive to the Changes	5B1
4	Rui Matsuo and Makoto Hasegawa	Quantification of Skin Using Smartphone and skip-GANomaly Deep Learning Model in Beauty Industry	I1
5	Kazuya Ueki	English Language Learning Materials with Automatic Question Creation and Scoring Functions	II1
6	Yuan Chang and Wataru Kameyama	Driver Drowsiness Detection by Multi-task and Transfer Learning	3A1
7	Kanato Sakama, Shunichi Sekiguchi and Wataru Kameyama	Performance Analysis of Generated Predictive Frames Using PredNet Bi-directionally	7A1
8	Takeru Yamanaka, Akira Kitsuda and Tomohiko Ohtsuka	Fingerprint Minutiae Detection using Improved Tamura's Thinning	IV1
9	Toyokazu Shimekake and Katsuto Nakajima	Empty Mug Detection in Pubs and Restaurants Using a Ceiling Camera	6C1
10	Suttipat Srisuk	Fast Aerial Image Segmentation based on Feature Pyramid Network	I2
11	Nattapong Phanthuna and Piyatida Phanthuna	Whiteness Equipment of Plastic Pellets via Digital Image Processing	IV2
13	Yang Yang, Junyu Dong, Xianglong Wang, Hao Fan, Xukun Qin and Muwei Jian	Calibration of Photometric Stereo point light source based on standard block	5C1
14	Wei Qi Lee and Phooi Yee Lau	PetCare: A Real-time Pet Monitoring System with Food Dispensing using Raspberry Pi	4B1
16	Takanori Komatsu, Kaho Hasebe and Junichi Akita	How Users Feel "Beautifulness" for Images Represented by Pseudorandom Pixel Placement	IV3
17	Ryou Mutou, Kazuya Ueki, Takayuki Hori, Yongbeom Kim and Yuma Suzuki	Human Retrieval from Large-Scale Video Data Based on Types and Colors of Clothing	II2
18	Soushi Takahashi, Shogo Muramatsu and Gwanggil Jeon	Design of Non-Separable Oversampled Lapped Transform via Stochastic Optimization for Image Restoration	4A1
19	Daiki Isono, Xiaohua Zhang and Ning Xie	Scale Adaptive Structure Tensor Based Rolling Trilateral Filter	4A2
20	Jumpei Nakatsuka, Yuta Muraki and Kenichi Kobori	Center of Gravity Correction Method for Self-Support of Output Model in 3D Printer	III1
21	Yudai Yamaji and Shigeyuki Sakazawa	On the tolerance of CNN watermarking against model optimizations	I2
22	Rei Fujimoto, Yuta Muraki and Kenichi Kobori	A Method of Reflection Representation in Mixed Reality Using Light Source Estimation	III2
23	Ryota Urakawa, Yuta Muraki and Kenichi Kobori	A Method of Composition Evaluation for Photographs	IV4
24	Keitaro Kawamori, Yuta Muraki and Kenichi Kobori	A Method of Automatic Photos Selection for Photo Albums	IV5
25	Zen-Chung Shih, Der-Lor Way and Li-Syuan Chen	A Context-Aware Anchor-free Tiny Object Detector for Aerial Images	5A1
26	Kazuma Kassai, Yuta Muraki and Kenichi Kobori	Simultaneous Scanning of Both Feet Shapes using Multiple Depth Sensors	IV6
27	Mitsuhiro Mori, Yuta Muraki and Kenichi Kobori	Automatic Generation of Impossible Shapes from Line-drawing Characters	IV7
28	Kouta Kaneko, Koki Otaka and Atsushi Osa	A Computer Simulation Method for the Motion Sharpening Phenomenon in Human Vision System	7A2
30	Jaelin Lee and Byeungwoo Jeon	Optimizing Coded Patterns with Various Length	3B1
31	Akane Toizume, Isao Nishihara and Takayuki Nakata	Method of Hiding Phase-shift Pattern for Depth Estimation in Interactive Art	5A2
32	Chunjie Ma, Li Zhuo, Jiafeng Li, Yutong Zhang and Jing Zhang	Anomaly Object Detection in X-ray Images with Gabor Convolution and Bigger Discriminative RoI Pooling	2A1
33	Arisa Poonsri and Shogo Tokai	Efficient integration of partial point clouds with few geometric features using improved colored ICP algorithm	6A1
34	Yasutaka Nakaizumi, Hidehiko Shishido and Yoshinari Kameda	Posture Estimation for the Visually Impaired People Using Human Skeleton with a White Cane	2B1
35	Sanghoon Lee	Does Modern Facial Feature Extraction Network Needs Face Normalization?: A Study on K-Face Dataset	I3
36	Wenyun Li and Chi Man Pun	A Single-Target License Plate Detection with Attention	7B1
37	Shuho Umebayashi, Kazuya Kodama and Takayuki Hamamoto	A study on 5-D light field compression using multi-focus images	3B2
38	Tsukasa Takahashi and Kouichi Konno	A Study on Algorithm to Extract Stone Tool Surfaces from Measured Point Clouds of Joining Materials Based on Images	6A2
39	Kazuya Goto and Katsuto Nakajima	Car Number Recognition for Formula One Driver Identification	5A3
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