

# IWAIT2026 Conference Agenda (Oral)

---

## Session 1A: 3D Model & Point Cloud

Session Chair: Prof. Sang-hyo Park

ID	Paper Title	Authors	Session
7	Difference Visualization of 3D Point Sets from Trench Investigations	Maral Enkhtugs, Mengbo You, Maki Tarora, Hiromi Hirakawa, Satoru Nakazono and Kouichi Konno	1A-1
10	A Study on Boundary Segmentation and Assembly of Fractured Bone Fragments Using Measured Point Clouds	Guangxin Hu, Mengbo You, Kouichi Konno and Akio Doi	1A-2
14	A Study on 3D Model Construction of Morioka Castle Stone Walls Using Photogrammetry to Estimate Camera Parameters for Old Photograph of Morioka Castle	Takanobu Murakami, Mengbo You and Kouichi Konno	1A-3
145	Zero-shot Text to 3D Object Generation with Visual Geometry Grounded Transformer	Dong-hun Lee and Sang-hyo Park	1A-4
149	Comparison of 3D Semantic Segmentation Performance using 3D Gaussian Splatting	Gahyeon Kim, Dong-hun Lee, Chae-yeong Song, Hojun Song and Sang-hyo Park	1A-5
168	Curriculum Learning for 3D Vehicle Geometry Editing	Jiangdong Miao and Bisser Raytchev	1A-6
206	Quaternion-based Deformation of Cloth Point Clouds	Ryusei Ohmura and Seishi Takamura	1A-7

## Session 1B: AI for Medical Image (I)

Session Chair: Prof. Wen-Feng Wang

ID	Paper Title	Authors	Session
128	Skeleton-Based Violent Action Recognition in Patients Using Graph Convolutional Networks	Chuan-Yu Chang, Yi-Jing Tzeng and Wen Hsiang Hsieh	1B-1
50	Estimating the Difficulty of Laparoscopic Surgery for Renal Tumor Using Perirenal-Fat Radiomics Features	Yugo Kubo, Keisuke Doman, Masahiro Nakashima, Masakazu Gonda, Tatsuya Kawai and Yoshito Mekada	1B-2
54	Multi-Scale Vessel and Lesion Feature Fusion for Early Diabetic Retinopathy Detection Using Fundus Images	Shivani Kumari, Arun Kumar Sangaiah and Wen-Fong Wang	1B-3
63	Proposal for Cuticle Damage Classification Using Deep Learning in Hair Care	Miyuki Ishii, Aika Kuramoto, Kensuke Yotsumoto, Mizuho Kokubo, Hiroko Kawanobe and Makoto Hasegawa	1B-4
69	Class-Controlled Histopathology Image Synthesis for Robust Tumor-Infiltrating Lymphocyte Segmentation	Ziad Elshaer and Essam A. Rashed	1B-5
190	Validation of Myelin-Enhanced Values in White Matter as a Prognostic Biomarker for 3-Month Outcomes After Acute Ischemic Stroke: A Large Cohort Study	Cheol-Woon Kim, Junbeom Lee, Dohyeong Kwon, Yechan Kim, Do Yeon Kim and Joon Yul Choi	1B-6

## Session 1C: AI for Computer Vision (I)

### Best Paper Competition

Session Chair: Best Paper Reviewers

ID	Paper Title	Authors	Session
58	Compressed-Image Recognition for a Feature Extractable CMOS Image Sensor	Keiichiro Kuroda, Yu Osuka, Ryoya Ieagaki, Kota Yoshida and Shunsuke Okura	1C-1
92	Enhancing Story Visualization via Subject-Aware Inpainting with SOEDiff	Hideo Kodama, Masaki Yoshida, Ren Togo, Takahiro Ogawa and Miki Haseyama	1C-2
102	Phase Component Compression for Computer-Generated Holograms Using Modified JPEG-LS Prediction	Katsuki Oshita, Kaiyu Suzuki, Ichiro Matsuda, Hiroki Kojima, Diego Fujii and Keisuke Nonaka	1C-3
124	Fast Implementation of SSIMULACRA2 for Image Quality Assessment	Yamato Kanetaka, Soshi Asamura, Akira Hasegawa, Yoshihiro Maeda and Norishige Fukushima	1C-4
45	Real-Time Embedded Measurement of Electrode-Wheel Width for Seam Welders	Hsien-Huang Wu and Kuan-Tsung Wu	1C-5
53	Cross-Modal Music Retrieval via Unified Masked Modeling of Caption, Melody, and Audio	Hsin-Che Chien, Cheng Min Ji and Chen-Kuo Chiang	1C-6

## Session 1D: AI for Medical Application and Others

### Best Paper Competition

Session Chair: Best Paper Reviewers

ID	Paper Title	Authors	Session
42	Deep Learning-based Diagnosis for Nasal Morphological Abnormalities	Kento Takeda, Kojiro Hirano, Kouzou Murakami, Jiin Takeda, Youngha Chang and Nobuhiko Mukai	1D-1
55	Generative AI-Assisted Algorithmic Art Education for Novice Programmers: A CT-Based Educational Evaluation with Law Major	Hisashi Sato and Kunio Kondo	1D-2
56	Joint Modeling of Perspective, Lens Distortion, and Rolling Shutter for Accurate Monocular 3D Pose/Velocity Estimation	Daisuke Imoto, Daiki Kato, Masato Asano, Wataru Sakurai and Masakatsu Honma	1D-3
64	Estimation of Quality of Life Using Sublingual Vein Images Based on Deep Learning and Traditional Chinese Medicine	Ziyin Lin, Ruixuan Lyu and Makoto Hasegawa	1D-4
222	Knowledge-Augmented Visual LLMs for Dog Breed Recognition	Chuan-Yu Chang and Fong-Jia Shu	1D-5
127	Enhancing Image-Text Alignment for Medical Report Generation via Low-Rank Random-Mask Contrastive Learning	De-Wei Lu, Tai-Cyuan Ciou, Jing-Ming Guo and Yi-Chong Zeng	1D-6

## Session 1E: Autonomous Mobility

Session Chair: Jeongchang Kim

ID	Paper Title	Authors	Session
18	Interactive System for Real-time Detection and GIS Registration of Damaged Houses using Mobile Devices to Streamline Damage Assessment	Yusei Kishikawa, Norihiko Kawai, Motoyuki Suzuki, Takeshi Isono and Tadashi Ise	1E-1
151	SkyPose: Real-Time Camera Pose Estimation via Skyline Matching in Mountainous Terrain	Sangyun Lee, Juyong Jeong and Jong-Il Park	1E-2
195	A Study on Signal Duration-Based Drone Classification Using YOLO Detection	Giseok Oh, Yeongchae Noh, Sehun Park, Yecheol Lee and Jeongchang Kim	1E-3
205	Reinforcement Learning Based Indoor Drone for Path Finding and Collision Avoidance	Mettri Royrak, Watchara Ruangsang, Supavadee Aramvith and Sitapa Watcharapinchai	1E-4
217	A YOLOv7-Based System for Traffic Object and Road Sign Recognition	Hung-Jen Wang, Shu-Ching Kuo and Bing-Ko Lin	1E-5
229	Autonomous Drone-Based Inspection of Utility Poles Using YOLOv8 and Visual Distance Estimation	Zhe-Yang Lin, Cheng-Hou Chou, Yi Lee, Chia-Jung Chang, Chien-Hung Lin, Chung-Yuan Chen, Hui-Yun Chen and Yi-Zeng Hsieh	1E-6

## Session 2A: LLM Application (I)

Session Chair: Prof. Arthur Chang

ID	Paper Title	Authors	Session
86	Design and Implementation of a Web-Based Platform for Document Tampering Detection	Seo Hyun Han, Yu Jin Kim, Min Seong Kim, Jong Yeol Park and Ki Hyun Jung	2A-1
97	Performance Analysis of Face Generation Using an Integrated GAN and Deep Reinforcement Learning Framework	Hung-Jen Wang and Cheng-Hsien Lee	2A-2
161	A Study of Video Compression and Its Impact on Video LLMs in the Open-Ended Video QA	Eunji Kim and Sang-hyo Park	2A-3
172	Proposal for a Real-World Cooking Robot based on the Integration of LLM and Visual Information	Fumiya Murase, Koki Maruyama, Kazuki Yamada, Shuichi Akizuki and Manabu Hashimoto	2A-4
177	A Study on Digital Strategies and Enabling Technologies for SMEs in Japan	Hiroyuki Mizunuma, Yusuke Arai, Manase Hiranai, and Masao Kasuga	2A-5
182	Exploring Emotion Analysis Capability of Large Language Models in Virtual Counseling Dialogues	Chung-Chian Hsu, Yu-Huan Hsueh, Yong-Jin Chen, Cheng-Han Lu, Ting-Yun Ke, Ke-Shun Chen, Tin-Kwang Lin and Yu-Hsiang Huang	2A-6

## Session 2B: AI for Medical Image (II)

Session Chair: Prof. Watcharaphong Yookwan

ID	Paper Title	Authors	Session
59	Risk Stratification of Asymptomatic Carotid Plaque: A Comparison of Symptom Onset and Treatment Eligibility Prediction Models	Sodai Yokoyama, Takashi Mizobe, Hideo Aihara, Tomokazu Hayashi, Tetsuya Urata, Syoji Kobashi	2B-1
119	Impact of Image Processing Pipeline on Video-based Heart Rate Estimation	Ayane Tohma, Kosuke Kurihara, Yoshihiro Maeda, Daisuke Sugimura and Takayuki Hamamoto	2B-2
142	Similar Video Retrieval for Laparoscopic Cholecystectomy Videos Based on Image and Text Feature Representations with Temporal Context Integration	Taiyo Ikeido, Ren Togo, Takahiro Ogawa and Miki Haseyama	2B-3
212	Office Syndrome Diagnosis using Automated CVA and FSP Detection from Smart Phone Camera	Watcharaphong Yookwan, Jiranun Sangrueng, Marut Tangwattanachuleeporn, and Krisana Chinnasarn	2B-4
227	Machine Learning Predictive Networks for Analyzing Immune Response Patterns in Parkinson's Disease Progression	Roshana Mukhtar, Chuan-Yu Chang and Muhammad Asif Zahoor Raja	2B-5
230	Clinical and Imaging Feature Based Machine Learning Models for Predicting One Year Recurrence of Intracerebral Hemorrhage	Kuan-Lin Wang and Yung-Ming Kuo	2B-6

## Session 2C: Image Processing and Pattern Recognition

### Best Paper Competition

Session Chair: Best Paper Reviewers

ID	Paper Title	Authors	Session
43	Effects of Differences in Tasks on Degree of Color Constancy	Takatoki Yamamoto, Keiji Uchikawa, Suguru Saito and Youngha Chang	2C-1
95	Optimization-Based Reflection Removal from Glass Surfaces Using Focal Length Variation	Maharu Oda, Takumi Miyamoto and Ryo Matsuoka	2C-2
105	Semantic and stability-aware grasp pose estimation for unseen objects using deformable shape models	Rinku Sano, Shuichi Akizuki and Manabu Hashimoto	2C-3
118	Transform Selection for Joint Coding of Chroma Residuals	Inhyuk Jeong, Hyunki Jeong and Byeungwoo Jeon	2C-4
3	Efficient Neural Light Field with Dynamic Objects	Yuan-Ching Chou, Der-Lor Way and Zen-Chung Shih	2C-5
139	Spatially Adaptive and Flexible Deep Network for Blind Compressed Image Reconstruction	Po-Yu Yen and Li-Wei Kang	2C-6



## Session 2D: 3D Image and VR

### Best Paper Competition

Session Chair: Best Paper Reviewers

ID	Paper Title	Authors	Session
75	Safe Route Estimation from Bicycle-Mounted Camera in Pedestrian-Active Environments	Ryoichi Kimura, Chokiu Leung, Tiago Rodrigues, Hitesh Pandya, Bruno Coelho and Yoshinari Kameda	2D-1
175	Computerized Classification Method of Molecular Subtypes of Brain Tumors from MR Images Using a Modified SAM-Med3D Model	Akiyoshi Hizukuri and Takeshi Nagata	2D-2
30	Pruning-Guided Point Cloud Enhancement via 3D Gaussian Splatting	Hojun Song and Sang-hyo Park	2D-3
150	Analysis of Object Detection Performance According to Implicit and Explicit Representations in Novel View Synthesis	Chaewon Moon, Aro Kim, Bosung Baek and Sang-hyo Park	2D-4
214	VNL - A Scalable and Immersive 3D Sandbox Virtual Lab for Computer Network Education	Budianto Tandianus, Liang Tang, Songjia Shen, Derwin Yan, Jun Wei Shaun Goh, Xuan En Arvin Ee, Ernest Chua, Prasanna Ghali and Kai-Juan Wong	2D-5

## Session 2E: LLM Application (II)

Session Chair: Prof. ShihYu Chen

ID	Paper Title	Authors	Session
24	Development of a Plant Modeling Interface to Enhance Creativity for Generating Design Ideas	Honoka Kin and Tomoaki Moriya	2E-1
129	De-identification in Game Chargeback Fraud Detection	Yu-Chih Wei and Wei-Hung Chi and Zhe-Wei Zheng	2E-2
185	Structure-Aware Knowledge Distillation Using Centered Kernel Alignment	Maya Komatsuzaki and Keisuke Kameyama	2E-3
215	Intelligent Federated Deep Learning for Credit-Card Fraud: Client-Side Rebalancing and Update-Norm Analytics	Nurafni Damanik and Chuan-Ming Liu	2E-5
231	Selecting Collaborative Learning Paradigms for Edge IoT: An E-M-O-Based Comparative Simulation with Design Guidelines	Yen-Cheng Tseng and Chuan-Sheng Lin	2E-6
232	BCF: A Blockchain-Enabled Function for Enhancing Data Consistency and Trust in 5GC	Yin Chen, Yi-Wen Liao and Chuan-Sheng Lin	2E-7

## Session 3A: 3D Display

Session Chair: Prof. Yu-Min Chiang

ID	Paper Title	Authors	Session
4	Composition Transformation of a Single Landscape Image using Segmentation and 3D Reconstruction	Yuya Suganuma and Norihiko Kawai	3A-1
28	A Handheld Transparent 3D Display Using a Light-Guide and Holographic Optical Element	Misaki Gaino and Tomohiro Yendo	3A-2
51	Generating Textured 3D Dairy Cow Models from a Few Images	Ryo Iwami, Yota Yamamoto, Kazuaki Nakamura and Yukinobu Taniguchi	3A-3
68	HOE Generating Virtual Images Viewable From Specific Viewing Zones for VAC-Free Transparent 3D Display	Mito Kotoyori, Kengo Fujii, Tomohiro Yendo and Masahiro Iwahashi	3A-4
73	Large-scale time-division 360-degree light field display	Koya Makita and Tomohiro Yendo	3A-5
79	Attribute Optimization Method for Geometry Compression of 3D Gaussian Splat Data	Youngwook Kim, Joohyung Byeon, Hanje Park, Jongyeul Suh, Donggyu Sim	3A-6
83	VAC-Free and Device-Free Stereoscopic Display with Directional Backlight onto a Retro-Reflector	Ryotaro Umemoto, Kengo Fujii, Tomohiro Yendo and Masahiro Iwahashi	3A-7
115	Light Field Representation with Constrained Viewpoint Gaussian Splatting	Sungbeen Jun, Jonghoon Yim and Byeungwoo Jeon	3A-8
173	Toward Multi-view Texture Consistency in Novel View Synthesis from Sparse-view 3DGS	Kin-Chung Chan, Kuong-Hon Pong and Kin-Man Lam	3A-9

## Session 3C: Signal Processing and Pattern Recognition

### Best Paper Competition

Session Chair: Best Paper Reviewers

ID	Paper Title	Authors	Session
48	Pedestrians' Gaze Object Estimation in Traffic Scene Considering Relationships Among Multiple Pedestrians	Hiroyuki Tatsumi, Daisuke Deguchi, Seigo Ito and Hiroshi Murase	3C-1
66	Automatic Lighting Control Based on Person Localization Using Pseudo-CAM on Edge Devices	Arata Hoki, Fumiya Ono, Koki Miyake, Kota Yoshida and Shunsuke Okura	3C-2
96	Sketch-Based Optimization of Residential Layouts with Fine-grained Urban Heat Island Prediction	Xiaoru Chen, Haoran Xie, Bingyuan Bai, Tsukasa Fukusato and Kazunori Miyata	3C-3
108	Image-to-Image Scene Matching by Representing Semantic Structures using Scene Graphs	Koshun Arimura, Yuga Yano and Hakaru Tamukoh	3C-4
136	Enhancement of TIMD in ECM with Skipped Non-Angular Blending	Kyuri Kim, Gihwa Moon, Jinho Lee and Jae-Gon Kim	3C-5
26	The Design of Intelligent Electronic Fence System with YOLOv8-Pose Technology	Ching-Lung Chang, Yu-Cheng Lin	3C-6
146	AI-Assisted mmWave Beamforming for QoS Enhancement in Networked Multimedia Systems	Mandavi Dubey, Vijay Dubey and Pi-Chung Wang	3C-7

## Session 3D: Models of Machine Learning

### Best Paper Competition

Session Chair: Best Paper Reviewers

ID	Paper Title	Authors	Session
2	Is YES/NO Question Answering by Vision-Language Models Effective for Video Retrieval?	Kazuya Ueki	3D-1
77	T2DCTdiff : Text to DCT Coefficient Diffusion Model	JeeEun Kim, Pureum Kim and Kyong Hwan Jin	3D-2
31	Depth from Defocus technique based on a CNN and its training strategy	Kohki Kasugai and Toshiyuki Yoshida	3D-3
143	FreqFlow: Frequency Aware Domain-Agnostic Flow Matching	Pureum Kim and Kyong Hwan Jin	3D-4
210	Residual-Augmented Prompt Tuning for Local Alignment in Multi- Label Remote Sensing	Chi Han Chen, Wen-Huang Cheng and Ching-Chun Huang	3D-5
65	Logical Anomaly Detection based on Relative Similarity Analysis of Region Segments	Tomohiro Yamada, Naoto Hiramatsu, Hiroki Kobayashi, Shuichi Akizuki and Manabu Hashimoto	3D-6
116	Computational and Structural Optimization for the Whisper Model	Chao-Hsien Lee and Jun-Han Lin	3D-7

## Session 3E: Posture Recognition

Session Chair: Prof. WanJung Chang

ID	Paper Title	Authors	Session
40	3D Human Pose Estimation from Pseudo-Two-Viewpoints Videos	Ayaka Shimazu, Chun Xie, Satoru Tanigawa and Itaru Kitahara	3E-1
71	Analysis of Bowling Throwing Posture Using Body-Part-Specific Features	Kiwami Iisaka, Genki Suzuki and Hiroyuki Shioya	3E-2
76	Recognition of Sumo Attack Styles Based on the Features Between Sumo Wrestlers	Kento Handa and Yoshinari Kameda	3E-3
100	Development of a pedestrian floor-projection method considering walking position and direction	Shinsei Yamada, Shinji Mizuno and Kenji Funahashi	3E-4
153	A Deep Learning-Based Human Skeleton Pose Estimation Model Using Two-Dimensional Time-of-Flight Imaging	Ting-Hsuan Hsu and Wan-Jung Chang	3E-6
160	Unsupervised Estimation of Tennis Players' Fatigue Level Assuming Temporal Monotonicity in Their Fatigue Accumulation	Ryuya Okabe and Kazuaki Nakamura	3E-7
176	Spatio-Temporal Assessment of White Cane Maneuvering Using Single-View 3D Pose Estimation	Shoei Terauchi, Masaki Matsuo and Yoshinari Kameda	3E-8
193	Controllable Motion Generation for Diverse Skeletal Structures Using Phase Manifolds	Tomoya Maruyama, Masahiro Nishizawa, Isao Nishihara and Takayuki Nakata	3E-9

## Session 4A: AR and VR (I)

Session Chair: Prof. Hsuan-Ting Chang

ID	Paper Title	Authors	Session
8	A Study of Method for Rapid Foreground Extraction of Natural Objects for the Construction of AR System for the Morioka Castle Site	Ayano Miura, Mengbo You and Kouichi Konno	4A-1
21	Development of a Guitar Practice Support System Based on Chord Estimation	Takato Toyama and Tomoaki Moriya	4A-2
46	A VR-based Evacuation Experience System Considering Crowd Psychology During Disasters	Yusuke Kasahara, Tomoaki Moriya and Tokiichiro Takahashi	4A-3
141	Visual Perception Support of Sound Movement Using Peripheral Displays in VR Space	Taihei Tsutsumi and Mie Sato	4A-4
188	GomuGomu Arm : Kinetic Energy-Based Extensible Virtual Arm	Wataru Kimura and Tomokazu Ishikawa	4A-5
228	A Virtual Reality Contents Platform for Japanese Classical Cultural Assets Archives	Makoto J. Hirayama	4A-6

## Session 4B: AR and VR (II)

Session Chair: Prof. Naoki Hashimoto

ID	Paper Title	Authors	Session
67	Interactive Maze Generation from Vector-Based Outlines with Scalar Fields	Natsuki Nishimura and Katsutsugu Matsuyama	4B-1
87	MagicLiveRoom: A Livestream System for VTubers to Seamlessly Interact with Real-World Objects	Hange Wang and Kazunori Miyata	4B-2
91	Negative-Positive Inversion Effects for Puzzle Games Using Cellophane-Attached Polarizer Sheets	Yuki Odaka, Takeki Odaka and Katsutsugu Matsuyama	4B-3
159	Stereoscopic Imaging Beyond the Boundaries of Displays and Projectors through Perceptual Completion Based on Transparency Illusion	Shinya Fukuta and Naoki Hashimoto	4B-4
169	An Approach to Reducing Projectors of High-Resolution Immersive Projection Based on Human Visual Perception	Keisuke Nakada and Naoki Hashimoto	4B-5
196	The Influence of Jerk Asymmetry in Asymmetric Vibration on the Perceived Intensity of Virtual Force Sensation	Mio Nagahara, Masahiro Nishizawa, Isao Nishihara and Takayuki Nakata	4B-6
209	Emerflux: Proposal for a water surface display using a two-layer liquid	Kaito Shimizu and Toshitaka Amaoka	4B-7



## Session 4C: AI for AOI

Session Chair: Prof. Shogo Muramatsu

ID	Paper Title	Authors	Session
47	A High-Fidelity Industrial Image Defect Generation Method Based on DDPM and Real-World Defect Simulation	Pei-Yu Huang and Bo Hsiao	4C-1
49	Transformer-based Placement and Harmonized Composition for Synthetic Data Generation in PCB Component Detection	Hyeonji Son, Hongseok Kim and Yaesop Lee	4C-2
99	Robust Chlorophyll-a Estimation under Cloud-Contaminated Satellite Imagery Using Multimodal Autoencoder Reconstruction	Honoka Tokunaga and Ryo Matsuoka	4C-3
191	Design and Performance Evaluation of a USRP-Based VDES Transceiver	Beomjun Kim, Ji-won Lee and Jeongchang Kim	4C-4
192	Applying Discrete Wavelet Transform and Bidirectional GRU Neural Networks to Real-Time Detection of Abnormalities in Railway Door Operation	Guan Jie Wang, Ming Tsung Yeh, Chun Yu Liu, Chien Chi Chiu, Shih Yi Chang and Wen Liang Chang	4C-5
199	Enhanced YOLOv7 for Flame and Smoke Detection in Industrial Environments	Yu-Ting Wang, Chuin-Mu Wang, Shao-Wei Chu and Yen-Ching Wu	4C-6
203	A Study on Fractional Delay Modeling in Fading Channels with Time-Varying Propagation Delay	Seokhyeon No, Yeongchae Noh, Min-gyu Kim and Jeongchang Kim	4C-7
204	Radiation Source Estimation by Sparse Modeling with Multi-Directional Measurements	Takumi Ogawa, Jun Goto and Shogo Muramatsu	4C-8

## Session 5A: AR and VR (III)

Session Chair: Prof. Shogo TOKAI

ID	Paper Title	Authors	Session
162	Annular Arrangement of Multi-View Aerial Images using a Conical Frustum Half-Mirror in an AIRR System	Huiying Chen and Naoki Hashimoto	5A-1
22	A Mixed Reality Training System for “Jugote” Routine in Japanese Sword Fighting Choreography	Ryota Shimosato, Tomoaki Moriya and Tokiichiro Takahashi	5A-2
23	Manga-style Rendering of Clapping Using Animated Onomatopoeia with High Visibility	Haruki Tamura and Shuheï Kodama	5A-3
25	On the improvement of temporal stability of mist screen system employing air curtain structure derived from spray nozzle and its effect on holographic image projection	Kunihiko Takano, Horomu Furuya, Yuto Yano, Kenyo Nishi, Ryoto Takaya, Koki Sato and Kikuo Asai	5A-4
35	Construction of an Asymmetric-Information Board Game Field Using Triangular-Prism Lenses and Interlaced Images	Ren Kaido, Ayumi Fujiwara and Katsutsugu Matsuyama	5A-5
37	Dynamic Projection Mapping System using Event-Based camera	Aoi Maruyama, Ryotaro Umemoto and Tomohiro Yendo	5A-6
57	A Fundamental Study on Optimal Duration of Screen Shake for Enhancing Affective Feedback in Action Video Games	Daiki Sugiyama and Hiroto Inoue	5A-7

## Session 5B: Image Processing (I)

Session Chair: Prof. Jeon, Byeungwoo

ID	Paper Title	Authors	Session
9	A Study on Image Acquisition Methods to Improve Classification Accuracy of Excavated Ceramics	Ryuki Abe, Mengbo You and Kouichi Konno	5B-1
38	Pencil-Style Transfer of Digital Illustrations Using LIC and Depth Estimation	Tomoya Uno, Naoki Kotani, Satoshi Sugikawa and Yuta Muraki	5B-2
70	Generation of Semantic Segmentation Masks based on Conditional Discrete Flow Matching	Masahiro Fujioka, Kaiyu Suzuki and Ichiro Matsuda	5B-3
74	Region-of-Interest Image Coding with Content-Aware Resizing Based on an Elastic Model	Wataru Ishida, Kaiyu Suzuki and Ichiro Matsuda	5B-4
179	PointPillars With Multi-Scale Feature Pyramid Network for Object Detection	Chien-Chou Lin, Yi-Xian Lin, Chi-Hsiang Kao, You-Cheng Lin, Wei-Ting Shiao, Jian-Zhang Wu, Yi-Tang Wu, Yi-Yun Huang, Cheng-Pin Liao and Risma Septiana	5B-5
122	Discussion on Introduction of Quantum Information and Computational Science in the Image Data Compression Procedure of 360 Degrees Camera	Norifumi Kawabata	5B-6
216	Automated Human Bladder Area Segmentation in Heterogeneous Environment Ultrasound Image	Jiranun Sangrueng, Krisana Chinnasarn, Watcharaphong Yookwan	5B-7

## Session 5C: AI for Computer Vision Image Processing (II)

Session Chair: Prof. Hideaki Kimata

ID	Paper Title	Authors	Session
186	Verification of Fixation for UHD Images	Shun Ushioda and Yoshiaki Shishikui	5C-1
135	Enhancement of Intra Prediction Fusion in ECM through Interpolation Filter Selection	JongMin Lee, Gihwa Moon, Jinho Lee and Jae-Gon Kim	5C-2
138	Video Deblurring Using Transformer-based Deep Neural Networks	Yi-Hung Lu and Jin-Jang Leou	5C-3
165	Study on Disparity Estimation for Monochrome Sensor Images Using Extended Feature Extraction via Tone Mapping	Kazuma Nishimura and Hideaki Kimata	5C-4
166	Lightweight U-Net-based Image Reconstruction for Inverse Halftoning	Yi-Chong Zeng and Jing-Ming Guo	5C-5
183	Image Watermarking Based on Hessenberg Decomposition and q-Logarithmic Transformation	Piyanart Chotikawanid and Thumrongrat Amornraksa	5C-6
134	Extensions of Bilateral Filter for Intra Prediction Improvement in ECM	Gihwa Moon, Jinho Lee, Sung-Chang Lim and Jae-Gon Kim	5C-7

## Session 6A: AI for Computer Vision (II)

Session Chair: Prof. Chi-Chia Sun

ID	Paper Title	Authors	Session
6	A Selfie System Adapted to Background Environment using an Omnidirectional Camera	Kanta Nakayama and Norihiko Kawai	6A-1
39	Movement-specific vehicle counting robust to occlusion at intersections	Yoshitaka Meguro, Yota Yamamoto, Hidkei Yaginuma and Yukinobu Taniguchi	6A-2
44	Joint Markerless Estimation of Ball Spin Axis and Spin Rate from Real Pitch Videos	Sho Arii, Jiin Takeda, Seung-Tak Noh, Yongha Chang and Nobuhiko Mukai	6A-3
108	Attention-Guided Frequency and Locality Learning GAN for Limited-Angle CT Reconstruction	Haytham A. Ali and Hiroyuki Kudo	6A-4
103	Construction of the Sim2Real Object Grasping Pipeline and Effect Analysis of Images on Grasp Point Estimation	Ryoga Maruno, Akihiro Suzuki, Naoki Yamaguchi, Tomoya Shiba and Hakaru Tamukoh	6A-5
117	Drift Adaptation via Training Data Sampling for Object Detection in Surveillance System	Seongjin Ye, Muho Cheon and Byeungwoo Jeon	6A-6
120	Tiny Object detection on Low Cost Edge AI Systems	Zhi-Wei Huang, Zhe-Xuan Su, Hui-Kai Su and Chi-Chia Sun	6A-7
132	Comparison of Deep Learning-Based Face Recognition Characteristics Across Multiple Animal Species	Soshi Morimo, Yuuma Nagatomo and Masayuki Mukunoki	6A-8

## Session 6C: AI for Computer Vision (III)

Session Chair: Prof. Chung-Chian Hsu

ID	Paper Title	Authors	Session
85	Design and Implementation of a Detection Model for AI-Generated Content through Text and Image Analysis	Yu Jin Kim, Amadoru Thuppahige Dilmi Hashini and Ki Hyun Jung	6C-1
137	A Lightweight Channel Bias for Small Object Detection in Aerial Images	Hongrui Fan, Haoyuan Liu and Hiroshi Watanabe	6C-2
181	Real-Time Vehicle Tracking and Traffic Metric Estimation using YOLOv11 with CUDA Optical Flow	Suttipat Srisuk, Damrongsak Arunyagool and Pantre Kompitaya	6C-3
194	Bus Boarding-to-Alighting Section Estimation via Integrated Passenger Re-Identification and Tracking	Yuwa Iwao, Yota Yamamoto and Yukinobu Taniguchi	6C-4
197	Traffic Flow and Speed Forecasting by Multi-Task Deep Learning with Pretrained Fine-Tuning	Chung-Chian Hsu and Ting-Yun Tseng	6C-5
198	Real-Time Dynamic Multi-Point Delivery Route Planning	Hsu Chung-Chian, Chen Ke-Shun, Tseng Ting-Yun and Hsueh Yu-Huan	6C-6
213	Contactless Pig Body Measurement Using Image Segmentation and Deep Learning	Liu Deng-Ying, Guo Zong-Cheng, Wu Tin-Yu, He Guo-Zhu, Guo Han-Lun and Huang Yu-Siang	6C-7
223	CBAM-Augmented KPAC-SR: Light-Weight Adaptive Deblurring with Attention and Super-Resolution	Chang-En Hsieh, Jian-Hong Liou, Yuan-Zong Tang, Shih-Hsiang Chou, Jia-Song Fan, Po-Yuan Yang and Chia-Hung Shih	6C-8
224	Computer Vision-Based Approaches for Monitoring Honeybee Behavior Using AI Image Recognition	Chih-Ying Li, Tai-Sheng Su and Chin-Chun Wu	6C-9