Jaesik Park

jaesik.park@postech.ac.kr | jaesik.info Chungam-Ro 77, POSTECH, Pohang-Si, Republic of Korea (37673)

Working Experiences

Associate Professor

Pohang, Republic of Korea

Pohang University of Science and Technology (POSTECH)

Sep. 2022 - Present

- Co-principal investigator of Computer Vision Lab.
- Advising about 20 masters and Ph.D. students
- Selected as one of the **POSTECH's Representative Research Achievements** (2021)
- Received Outstanding Online Class award (2020) and the Best EduTech award (2021)
- 3D scene reconstruction, understanding, and assembly projects
- Proposed novel image generation pipelines: StudioGAN project (3.0k GitHub stars)
- 6.1k Google Scholar citations

Assistant Professor

Pohang, Republic of Korea

April. 2019 - Aug. 2022

Staff Research Scientist

Santa Clara, CA, USA

Intelligent Systems Lab, Intel (Manager: Dr. Vladlen Koltun)

Pohang University of Science and Technology (POSTECH)

Dec. 2015 - March 2019

- Co-creator of Open3D: open-sourced 3D vision library that is built from scratch (7.8+1.1k GitHub stars)
- Tanks and Temples: an online evaluation system for photogrametry methods
- High quality 3D reconstruction approaches
- Geometry understanding: tangent convolutions and fully convolutional geometric features
- Advised intern students from Stanford University, U.C. Berkeley, and Carnegie Melon University

Post-Doc. Researcher

Daejeon, Republic of Korea

KAIST. Developed color correction algorithms (Mentor: Prof. In So Kweon)

Aug. 2015 - Nov. 2015

Research Intern

Redmond, WA, USA

Microsoft Research. Developed a light calibration technique (Mentor: Dr. Sudipta N. Sinha)

June 2013 - Sep. 2013

Research Intern

Beijing, China

Microsoft Research Asia. Multiview photometric stereo system (Mentor: Prof. Y. Matsushita)

April 2012 - Oct. 2012

EDUCATION

Ph.D. and M.S. in Electrical Eng.

Daejeon, Republic of Korea

Korea Advanced Institute of Science and Technology (KAIST)

Feb. 2009 - Aug. 2015

- Ph.D. thesis: Image-based 3D Modeling via Constrained Optimization (Advisor: Prof. In So Kweon, Co-advisor: Dr. Yu-Wing Tai)
- Master's thesis: Upsampling Low-resolution Image using Heterogeneous High-resolution Image (Advisor: Prof. In So Kweon)

B.E. in Media Communication Eng.

Seoul, Republic of Korea

Hanyang University (Summa cum laude)

March. 2005 - Feb. 2009

PUBLICATIONS

International

- [1] Minguk Kang, Jun-Yan Zhu, Richard Zhang, Jaesik Park, Eli Shechtman, Sylvain Paris, and Taesung Park Scaling up GANs for Text-to-Image Synthesis Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2023

 - (Accepted as a highlight paper (review score 5,5,5) top 2.5% among 9,155 submissions)
- [2] Kwonyoung Ryu, Soonmin Hwang, and Jaesik Park Instant Domain Augmentation for LiDAR Semantic Segmentation Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2023

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- [3] Rongrong Gao, Tian-Zhu Xiang, Chenyang Lei, **Jaesik Park**, and Qifeng Chen Scene-level Point Cloud Colorization with Semantic-and-Geometric-aware Networks IEEE Int. Conf. on Robotics and Automation (**ICRA**), 2023
- [4] Seungjoo Shin*, Min Woo Kim*, Kyong Hwan Jin, Kwang Moo Yi, Yoshiki Kohmura, Tetsuya Ishikawa, Jung Ho Je, and Jaesik Park Deep 3D Reconstruction of Synchrotron X-ray Computed Tomography for Intact Lungs published by Nature Research (Scientific Reports), 2023
- [5] Jinoh Cho, Minguk Kang, Vibhav Vineet, and Jaesik Park Instance-Aware Image Completion 2210.12350 (arXiv), 2022

(*Equal contribution)

- [6] Seokjun Ahn, Jungtaek Kim, Minsu Cho, and Jaesik Park Sequential Brick Assembly with Efficient Constraint Satisfaction 2210.01021 (arXiv), 2022
- [7] Hyomin Kim, Hyeonseo Nam, Jungeon Kim, Jaesik Park, and Seungyong Lee LaplacianFusion: Detailed 3D Clothed-Human Body Reconstruction ACM (SIGGRAPH Asia), 2022 (Accepted as a journal track paper)
- [8] Yoonwoo Jeong*, Seungjoo Shin*, Junha Lee*, Christopher Choy, Animashree Anandkumar, Minsu Cho, and Jaesik Park PeRFception: Perception using Radiance Fields Conf. on Neural Information Processing Systems (NeurIPS) Datasets and Benchmarks Track, 2022 (*Equal contribution)
- [9] Nayeong Kim, Sehyun Hwang, Sungsoo Ahn, Jaesik Park, and Suha Kwak Learning Debiased Classifier with Biased Committee
 Conf. on Neural Information Processing Systems (NeurIPS), 2022
- [10] Seunghyuk Cho, Juyong Lee, **Jaesik Park**, and Dongwoo Kim

 A Rotated Hyperbolic Wrapped Normal Distribution for Hierarchical Representation Learning
 Conf. on Neural Information Processing Systems (**NeurIPS**), 2022
- [11] Seungwook Kim, Yoonwoo Jeong, Chunghyun Park, Jaesik Park, and Minsu Cho SeLCA: Self-Supervised Learning of Canonical Axis Symmetry and Geometry in Neural Representations (NeurReps), NeurIPS workshop, 2022
- [12] Jiye Kim, Seungbeom Lee, Dongwoo Kim, Sungsoo Ahn, and **Jaesik Park**Substructure-Atom Cross Attention for Molecular Representation Learning
 AI for Science: Progress and Promises (AI4Science) **NeurIPS workshop**, 2022
- [13] Kanghee Lee, Junha Lee, and Jaesik Park Learning to Register Unbalanced Point Pairs 2207.04221 (arXiv), 2022
- [14] Juyong Lee*, Seokjun Ahn*, and Jaesik Park Style-Agnostic Reinforcement Learning European Conf. on Computer Vision (ECCV), 2022 (*Equal contribution)
- [15] Jaesung Choe*, Chunghyun Park*, Francois Rameau, Jaesik Park, and In So Kweon PointMixer: MLP-Mixer for Point Cloud Understanding European Conf. on Computer Vision (ECCV), 2022 (*Equal contribution)
- [16] Jaewon Kam, Jungeon Kim, Soongjin Kim, **Jaesik Park**, and Seungyong Lee CostDCNet: Cost Volume based Depth Completion for a Single RGB-D Image European Conf. on Computer Vision (**ECCV**), 2022

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- [17] MinGuk Kang, Joonghyuk Shin, and **Jaesik Park**StudioGAN: A Taxonomy and Benchmark of GANs for Image Synthesis
 2206.09479 (arXiv), 2022
- [18] Jinhwi Lee, Jungtaek Kim, Hyunsoo Chung, Jaesik Park, and Minsu Cho Learning to Assemble Geometric Shapes Int. Joint Conf. on Artificial Intelligence (IJCAI), 2022
- [19] Hyunmin Lee and Jaesik Park Instance-wise Occlusion and Depth Orders in Natural Scenes Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2022
- [20] Chunghyun Park, Yoonwoo Jeong, Minsu Cho, and Jaesik Park Fast Point Transformer Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2022
- [21] Jaebong Jeong, Janghun Jo, Sunghyun Cho, and Jaesik Park
 3D Scene Painting via Semantic Image Synthesis
 Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2022
- [22] Jungeon Kim, Hyomin Kim, Hyeonseo Nam, Jaesik Park, and Seungyong Lee TextureMe: High-quality Textured Scene Reconstruction in Real-time ACM Transactions on Graphics (ToG), 2022 (also presented at SIGGRAPH2022)
- [23] Jaesung Choe, Byeongin Joung, Francois Rameau, Jaesik Park, and In So Kweon Deep Point Cloud Reconstruction Int. Conf. on Learning Representations (ICLR), 2022
- [24] Jae Shin Yoon, Zhixuan Yu, Jaesik Park, and Hyun Soo Park HUMBI: A Large Multiview Dataset of Human Body Expressions and Benchmark Challenge Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2021
- [25] Junha Lee, Christopher Choy, and Jaesik Park Putting 3D Spatially Sparse Networks on a Diet 2112.01316 (arXiv), 2021
- [26] Wei Dong*, Kwonyoung Ryu*, Michael Kaess, and Jaesik Park Revisiting LiDAR Registration and Reconstruction: A Range Image Perspective 2112.02779 (arXiv), 2021 (*Equal contribution)
- [27] Jinsoo Choi, Jaesik Park, and In So Kweon Self-Supervised Real-time Video Stabilization British Machine Vision Conference (BMVC), 2021
- [28] Minguk Kang, Woohyeon Shim, Minsu Cho, and Jaesik Park Rebooting ACGAN: Auxiliary Classifier GANs with Stable Training Conf. on Neural Information Processing Systems (NeurIPS), 2021
- [29] Hyunsoo Chung, Jungtaek Kim, Boris Knyazev, Jinhwi Lee, Graham W. Taylor, Jaesik Park, and Minsu Cho Brick-by-Brick: Combinatorial Construction with Deep Reinforcement Learning Conf. on Neural Information Processing Systems (NeurIPS), 2021
- [30] Yoonwoo Jeong, Seokjun Ahn, Christopher Choy, Animashree Anandkumar, Minsu Cho, and **Jaesik Park** Self-Calibrating Neural Radiance Fields
 Int. Conf. on Computer Vision (**ICCV**), 2021
- [31] Junha Lee, Seungwook Kim, Minsu Cho, and Jaesik Park Deep Hough Voting for Robust Global Registration Int. Conf. on Computer Vision (ICCV), 2021

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- [32] Hyomin Kim, Jungeon Kim, Jaewon Kam, Jaesik Park*, and Seungyong Lee* Deep Virtual Markers for Articulated 3D Shapes Int. Conf. on Computer Vision (ICCV), 2021 (*Joint corrresponding authors, Oral Presentation, 3.4% acceptance rate)
- [33] Hyunmin Lee and **Jaesik Park**STAD: Stable Video Depth Estimation
 IEEE Int. Conf. on Image Processing (**ICIP**), 2021
- [34] Taewon Jin, Taesoo Park, Ina Park, Jaesik Park*, and Ji Hoon Shim*

 Accelerated Crystal Structure Prediction of Multi-elements Random Alloy using Expandable Features published by Nature Research (Scientific Reports), 2021

 (*Joint corrresponding authors)
- [35] Hyomin Kim, Jungeon Kim, Hyeonseo Nam, **Jaesik Park**, and Seungyong Lee
 Spatiotemporal Texture Reconstruction for Dynamic Objects Using a Single RGB-D Camera
 42nd Annual Conference of the European Association for Computer Graphics (**EuroGraphics**), 2021
- [36] Jinsoo Choi, **Jaesik Park**, and In So Kweon

 High-quality Frame Interpolation via Tridirectional Inference

 Winter Conf. on Applications of Computer Vision (WACV), 2021
- [37] Minguk Kang and Jaesik Park

 ContraGAN: Contrastive Learning for Conditional Image Generation

 Conf. on Neural Information Processing Systems (NeurIPS), 2020
- [38] Jungtaek Kim, Hyunsoo Chung, Minsu Cho, and **Jaesik Park**Combinatorial 3D Shape Generation via Sequential Assembly
 Machine Learning for Engineering Modeling, Simulation, and Design (ML4Eng), **NeurIPS workshop**, 2020
- [39] Jinhwi Lee*, Jungtaek Kim*, Hyunsoo Chung, Jaesik Park, and Minsu Cho Fragment Relation Networks for Geometric Shape Assembly Learning Meets Combinatorial Algorithms (LMCA), NeurIPS workshop, 2020 (*Equal contribution)
- [40] Zhixuan Yu, Jaeshin Yoon, Inkyu Lee, Prashanth Venkatesh, Jaesik Park, Jihun Yu, and Hyunsoo Park HUMBI: A Large Multiview Dataset of Human Body Expressions Conf. on Computer Vision and Pattern Recognition (CVPR), 2020
- [41] Christopher Choy, Junha Lee, Rene Ranftl, Jaesik Park, and Vladlen Koltun High-Dimensional Convolutional Networks for Geometric Pattern Recognition Conf. on Computer Vision and Pattern Recognition (CVPR), 2020 (Oral Presentation, 5.7% acceptance rate)
- [42] Yue Wu, Rongrong Gao, Jaesik Park, and Qifeng Chen Future Video Synthesis with Object Motion Predictions Conf. on Computer Vision and Pattern Recognition (CVPR), 2020
- [43] Christopher Choy*, Jaesik Park*, and Vladlen Koltun Fully Convolutional Geometric Features Int. Conf. on Computer Vision (ICCV), 2019 (*Equal contribution)
- [44] Jungeon Kim, Hyomin Kim, Jaesik Park, and Seungyong Lee Global Texture Mapping for Dynamic Objects Pacific Graphics (PG), 2019
- [45] Wei Dong, Jaesik Park, Yi Yang, and Michael Kaess GPU Accelerated Robust Scene Reconstruction IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS), 2019
- [46] Hae-Gon Jeon, Jaesik Park, Gyeongmin Choe, Jinsun Park, Yunsu Bok, Yu-Wing Tai, and In So Kweon Depth from a Light Field Image with Learning-based Matching Costs IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2019

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- [47] Maxim Tatarchenko*, Jaesik Park*, Vladlen Koltun, and Qian-Yi Zhou Tangent Convolutions for Dense Prediction in 3D Conf. on Computer Vision and Pattern Recognition (CVPR), 2018 (*Equal contribution. Spotlight Oral Presentation)
- [48] Qian-Yi Zhou, Jaesik Park, and Vladlen Koltun Open3D: A Modern Library For 3D Data Processing 1801.09847 (arXiv), 2018
- [49] Byungtae Ahn, Dong-Geol Choi, Jaesik Park, and In So Kweon Real-time Head Pose Estimation using Multi-task Deep Neural Network Robotics and Autonomous Systems (RAS), 2018
- [50] Jaesik Park, Qian-Yi Zhou, and Vladlen Koltun Colored Point Cloud Registration Revisited Int. Conf. on Computer Vision (ICCV), 2017
- [51] Arno Knapitsch, Jaesik Park, Qian-Yi Zhou, and Vladlen Koltun Tanks and Temples: Benchmarking Large-Scale Scene Reconstruction ACM Transactions on Graphics (SIGGRAPH), 2017
- [52] Gyeongmin Choe, Jaesik Park, Yu-Wing Tai, and In So Kweon Refining Geometry from Depth Sensors using IR Shading Images International Journal of Computer Vision (IJCV), 2017
- [53] Seong heum Kim, Yu Wing Tai, Joon Young Lee, Jaesik Park, and In So Kweon Category Specific Salient View Selection via Deep Convolutional Neural Networks Computer Graphics Forum (CGF), 2017
- [54] Jaesik Park, Sudipta N. Sinha, Yasuyuki Matsushita, Yu-Wing Tai, and In So Kweon Robust Multiview Photometric Stereo using Planar Mesh Parameterization IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2016
- [55] Qian-Yi Zhou, Jaesik Park, and Vladlen Koltun Fast Global Registration
 European Conf. on Computer Vision (ECCV), 2016
 (Oral Presentation, 1.8% acceptance rate)
- [56] Jaesik Park, Yu-Wing Tai, Sudipta N. Sinha, and In So Kweon Efficient and Robust Color Consistency for Community Photo Collections Conf. on Computer Vision and Pattern Recognition (CVPR), 2016
- [57] Hyowon Ha, Sunghoon Im, Jaesik Park, Hae-Gon Jeon, and In So Kweon High-quality Depth from Uncalibrated Small Motion Clip Conf. on Computer Vision and Pattern Recognition (CVPR), 2016 (Oral Presentation, 3.9% acceptance rate)
- [58] Inwook Shim, Seunghak Shin, Yunsu Bok, Kyungdon Joo, Dong-Geol Choi, Joon-Young Lee, Jaesik Park, Jun Ho Oh, and In So Kweon
 Vision System and Depth Processing for DRC-HUBO+
 IEEE Int. Conf. on Robotics and Automation (ICRA), 2016
 (Depth processing algorithm of Team KAIST (winner of DARPA robotics challenge finals 2015))
- [59] Seong-Heum Kim, Yu-Wing Tai, Jaesik Park, and In So Kweon Multi-view Object Extraction with Fractional Boundaries IEEE Transaction on Image Processing (TIP), 2016
- [60] Hyowon Ha, Jaesik Park, and In So Kweon Dense Depth and Albedo from a Single-shot Structured Light Int. Conf. on 3D Vision (3DV), 2015
- [61] Hae-Gon Jeon, Jaesik Park, Gyeongmin Choe, Jinsun Park, Yunsu Bok, Yu-Wing Tai, and In So Kweon Accurate Depth Map Estimation from a Lenslet Light Field Camera Conf. on Computer Vision and Pattern Recognition (CVPR), 2015

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- [62] SoonMin Hwang, Jaesik Park, Namil Kim, Yukyung Choi, and In So Kweon Multi-modal Pedestrian Detection: Benchmark Dataset and Baselines Conf. on Computer Vision and Pattern Recognition (CVPR), 2015
- [63] **Jaesik Park**, Hyeongwoo Kim, Yu-Wing Tai, Michael S. Brown, and In-So Kweon *High Quality Depth Map Upsampling and Completion for RGB-D Cameras* IEEE Transaction on Image Processing (**TIP**), 2014
- [64] Byungtae Ahn, **Jaesik Park**, and In So Kweon

 Real-time Head Orientation from a Monocular Camera using Deep Neural Network

 Asian Conf. on Computer Vision (**ACCV**), 2014
- [65] Jinsoo Choi, Byungtae Ahn, Jaesik Park, and In So Kweon GMM-based Saliency Aggregation for Calibration-free Gaze Estimation Int. Conf. on Image Processing (ICIP), 2014
- [66] Gyeongmin Choe*, Jaesik Park*, Yu-Wing Tai, and In So Kweon Exploiting Shading Cues in Kinect IR Images for Geometry Refinement Conf. on Computer Vision and Pattern Recognition (CVPR), 2014 (*Equal contributions. Received 20th HumanTech Paper Award (Silver Prize), Samsung Electronics Corp.)
- [67] Jaesik Park, Sudipta N. Sinha, Yasuyuki Matsushita, Yu-Wing Tai, and In So Kweon Calibrating a Non-isotropic Near Point Light Source using a Plane Conf. on Computer Vision and Pattern Recognition (CVPR), 2014
- [68] Jaesik Park, Sudipta N. Sinha, Yasuyuki Matsushita, Yu-Wing Tai, and In So Kweon Multiview Photometric Stereo using Planar Mesh Parameterization Int. Conf. on Computer Vision (ICCV), 2013 (Received 19th HumanTech Paper Award (Silver Prize), Samsung Electronics Corp.)
- [69] Jaesik Park, Tae Hyun Oh, Jiyoung Jung, Yu-Wing Tai, and In So Kweon Tensor Voting Approach for Multi-View 3D Scene-flow Estimation and Refinement European Conf. on Computer Vision (ECCV), 2012
- [70] Jaesik Park, Joon-Young Lee, Yu-Wing Tai, and In So Kweon Modeling Photo Composition and Its Application to Photo Re-arrangement Int. Conf. on Image Processing (ICIP), 2012
- [71] Jaesik Park, Yu-Wing Tai, and In-So Kweon Identigram/Watermark removal using cross-channel correlation Conf. on Computer Vision and Pattern Recognition (CVPR), 2012
- [72] Jiyoung Jung, Yekeun Jeong, **Jaesik Park**, Hyowon Ha, J. D. Kim, and In-So Kweon A Novel 2.5D Pattern for Extrinsic Calibration of ToF and Camera Fusion System IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (**IROS**), 2011
- [73] Jaesik Park*, Hyeongwoo Kim*, Yu-Wing Tai, Michael S. Brown, and In-So Kweon High Quality Depth Map Upsampling for 3D-TOF Cameras Int. Conf. on Computer Vision (ICCV), 2011 (*Equal contributions)

Domestic

- [1] Jiye Kim, Seungbeom Lee, Dongwoo Kim, Sungsoo Ahn, and **Jaesik Park** *분자 표현학습을 위한 하부구조 인식 그래프 트랜스포머* 한국멀티미디어학회 추계학술대회, Nov. 2022
- [2] Kanghee Lee, Junha Lee, and **Jaesik Park** 비균등 점군집 정합을 위한 계층적인 매칭 모듈 한국멀티미디어학회 추계학술대회, Nov. 2022
- [3] Jinoh Cho, Minguk Kang, and **Jaesik Park** *맥락에 부합하는 영상 완성 기법* 한국멀티미디어학회 추계학술대회, Nov. 2022

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- [4] Seokjun Ahn, Jinwhi Lee, Jungtaek Kim, Suhyeon Jeong, Seungwook Kim, **Jaesik Park**, and Minsu Cho 탐색 알고리즘을 활용한 순차적 조각 조립 제 34회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2022
- [5] Jaewon Kam, Jungeon Kim, Soongjin Kim, **Jaesik Park**, and Seungyoung Lee 실내 깊이 완성을 위한 3D 합성곱 기반의 절두체 합성곱 제 34회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2022
- [6] Wonjun Jin, Soongjin Kim, **Jaesik Park**, Seungyoung Lee, and Sunghyun Cho *GC-NeRF: 형상 제약을 활용한 효율적인 NeRF 학습* 제 34회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2022
- [7] Junha Lee, Seungwook Kim, Minsu Cho, and **Jaesik Park** 계층적 허프 변환을 통한 포인트 클라우드 정합 제 33회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2021 (**Received The Gold Prize**)
- [8] Hyunmin Lee and **Jaesik Park** 일관된 비디오 뎁스 맵 추정을 위한 시간 어텐션 모듈 제 33회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2021 (**Received The Silver Prize**)
- [9] Hyunsoo Chung, Jungtaek Kim, Jinhwi Lee, **Jaesik Park**, and Minsu Cho 강화학습을 이용한 그래프 표현 기반의 3차원 물체 생성 제 33회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2021
- [10] Jungeon Kim, Hyomin Kim, **Jaesik Park**, and Seungyong Lee *동적 객체에 대한 전역 텍스쳐 맵 생성* 제 32회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2020
- [11] Jungeon Kim, Hyomin Kim, **Jaesik Park**, and Seungyong Lee 메시 피라미드를 활용한 3차원 비강체 모델 텍스쳐 맵 생성 한국컴퓨터그래픽스학회, July 2019
- [12] Min-Hyun Kim, **Jaesik Park**, and In So Kweon *깊이 영상 처리를 위한 학습기반 신뢰도 추정 및 재질 분류* 제 27회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2014
- [13] Junsik Kim, Kyungdon Joo, Tae-Hyun Oh, **Jaesik Park**, and In So Kweon 시야 공유가 없는 다중 카메라를 이용한 사람 추적 제 27회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2014
- [14] SoonMin Hwang, **Jaesik Park**, Namil Kim, Yukyung Choi, and In So Kweon *컬러-열영상 퓨전을 통한 강인한 보행자 검출 기법* 제 27회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2014
- [15] Hae-Gon Jeon, **Jaesik Park**, Gyeongmin Choe, Jinsun Park, Yunsu Bok, Yu-Wing Tai, and In So Kweon 마이크로 렌즈 기반의 휴대용 라이트필드 카메라를 이용한 정확한 깊이 정보 추정방법 한국멀티미디어학회 춘계학술발표대회, May 2014 (**Received the Best Paper Award**)
- [16] Gyeongmin Choe, **Jaesik Park**, Hyowon Ha, and In So Kweon 키넥트 깊이 정밀도 개선을 위한 적외선 패턴 영상의 스테레오 정합 2013년도 한국 멀티미디어 학회 춘계학술 발표대회 논문집 제 16권 1호, May 2013
- [17] **Jaesik Park**, Tae Hyun Oh, Jiyoung Jung, Yu-Wing Tai, and In So Kweon *다시점 영상기반 3차원 움직임 추정기법* 제 25회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2013
- [18] Jaesik Park, Yu-Wing Tai, and In So Kweon 컬러 영상의 홀로그램 및 워터마크 제거 기법 제 25회 영상처리 및 이해에 관한 워크샵 (IPIU), Feb. 2013 (Received the Best Paper Award)

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PROGRAM COMMITTEE

- Area Chair, Conf. on Neural Information Processing Systems (NeurIPS), 2023
- Area Chair, Int. Conf. on Computer Vision (ICCV), 2023
- Associate Editor, Int. Conf. on Robotics and Automation (ICRA), 2023
- Area Chair, Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2023
- Area Chair, European Conf. on Computer Vision (ECCV), 2022
- Associate Editor, IEEE Int. Conf. on Robotics and Automation (ICRA), 2022
- Associate Editor, IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS), 2021
- Area Chair, Machine Vision Applications (MVA) conference, 2021
- Area Chair, Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2021
- Area Chair, Int. Conf. on Computer Vision (ICCV), 2021
- Senior Program Committee, Int. Joint Conf. on Artificial Intelligence (IJCAI), 2021
- Senior Program Committee, Assoc. for the Advancement of Artificial Intelligence (AAAI), 2021
- Area Chair, Int. Conf. on Computer Vision and Pattern Recognition (CVPR), 2020
- Senior Program Committee, Int. Joint Conf. on Artificial Intelligence (IJCAI), 2020
- Area Chair, Int. Conf. on Computer Vision (ICCV), 2019
- Session Chair, Int. Conf. on Computer Vision (ICCV), 2019
- Have been served as a reviewer for international conferences, such as CVPR, ICCV, ECCV, ICLR, NeurIPS, AAAI, ICRA, IROS, SIGGRAPH, SIGGRAPH Asia, BMVC, 3DV, ACCV, WACV, and so on.
- Have been served as a reviewer for international journals, such as TPAMI, TIP, TVCG, TRO, IJCV, CVIU, SPL, IVC, Neurocomputing, and so on.

AWARDS

- Representative ICT RnD Projects in Recent Five Years (ICT RnD 사업 성과 중 우수과제), IITP (정보통신기획평가원), Republic of Korea, May 2022
- CSE Young Scholar, POSTECH Computer Science Engineering Department, Apr. 2022
- Google Cloud Platform Credit Award, Google LLC, USA, March 2022
- 28th HumanTech Paper Award (Silver Prize), Samsung Electronics Corp., Feb. 2022
- Best EduTech Class Award, POSTECH, Awarded to the one online class among 480 classes, Nov. 2021
- Representative Research Achievements, POSTECH, July 2021
- Qualcomm Gift Grant, Qualcomm Corporation, Dec. 2020
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