Dima Damen
University of Bristol

Tal Hassner
Facebook AI

Christopher Pal
Ecole Polytechnique de Montreal

Yoichi Sato
University of Tokyo
ICCV 2021 Prizes

- Outstanding Reviewers
- Marr Prize - ICCV 2021 Best Paper
  - and honourable mentions
- Best Student Paper
Outstanding Reviewers

- Reviewers for which there was overwhelming evidence for outstanding contribution to reviewing.
- Ratings excluded papers withdrawn during the rebuttal phase
- 18% of all reviews were ranked as exceeding expectations
- Multiple “exceed expectations” ratings
- 5% of all experienced reviewers & 5% of all student reviewers
Outstanding Reviewers - ICCV 2021

[PCs Update] We acknowledge 210 outstanding reviewers (top 5% experienced and top 5% student reviewers) online at: iccv2021.thecvf.com/outstanding-re... amongst the many amazing reviewers this year. We also ack. generous emergency reviewers: iccv2021.thecvf.com/emergency-revi...

100 free registrations
Outstanding Reviewers - ICCV 2021

Abdullah Abuolaim
Mahmoud Affifi
Samuel Anime
Cenek Albl
Jose Alvarez
Reija Arandjelović
Nikita Araslanov
Pablo Arbelaez
Muhammad Asad
Yuki Asano
Nicolas Audet
Melinos Averkiou
Angelica Aviles-Rivero
Yannis Avrithis
Jonathan Barron
Miguel Angel Bautista
Jens Behley
Assia Benbihi
Alexander Bergman
Amit Bermano
Timo Bolkart
Amine Bourki
Ivaylo Boyadzhiev
Eric Brachmann
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Xiaolin Hu
Qingyong Hu
Junhwa Hur
Jaedong Hwang
Mona Jalal
Vazquez-Coral Javier
Vicky Kalogeritou
Corentin Kervadec
Boris Knayzev
Praveen Krishnan
Alexander Krull
Jean-François Lalonde
Vuong Le
Xiang Li
Chongyi Li
Yunzhu Li
Tianye Li
Zhengqin Li
Kevin Liang
Jun Hao Liew
Zhe Lin
Yonghui Liu
Yu Liu
Juncheng Liu
Juwei Lu
Oisin Mac Aodha
Massimiliano Mancini
Kevis-Koktsi Maninis
Renaud Marlet
Stefan Mathe
Minesh Mathew
Yusuke Matsui
Efi Mavrakis
Juhong Min
Anand Mishra
Gaurav Mittal
Philippos Mordohai
Francisco Moreno
Jonathan Munro
Ana Murillo
Seungjun Nah
Seonghyeon Nam
Sanath Narayan
Simon Niklaus
Yulei Niu
David Novotny
Anton Obukhov
Jihyong Oh
Utkarsh Oh
Mohamed Omran
Jose Oramas
Aljosa Osej
Cheng Qiang
Liang Pan
Liyuan Pan
Andreas Panteli
Seonwook Park
JaeYoo Park
Sujay Paul
Georgios Pavlakos
Adithya Pediredla
Xingchao Peng
Juan Perez
Stavros Petridis
Khoi Pham
Silvia Pintea
Soeren Pirk
Bryan Plummer
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Christian Richardt
Daniel Ritchie
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Rob Romijnders
Adria Ruiz
Christian Rupprecht
Bryan Russell
Anruridha Saha
Samuele Salti
Enrique Sanchez
Nikolaos Sarafianos
Saquib Sarfraz
Paul-Edouard Sarlin
Hanno Scharr
Jie Shen
Liuyue Shen
Yugong Shen
Assaf Shocher
Abianav Shivastava
Leonid Sigal
Jeany Son
Jin Sun
Anshuman Suri
Ajinkya Tejwani
Christopher Thomas
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Nergis Tomen
Fatiana Tomassi
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Eduard Trulls
Yu-Hsuan Tsai
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Jack Valmard
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Sai Vempala
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Konstantinos Vougioukas
Guangrun Wang
Wenguang Wang
Dongdong Wang
Guangting Wang
Anne Wannenwetsch
Luca Weihs
Martin Weimann
Davis Wertheimer
Olivia Wiles
Michael Wray
Dongli Xiang
Chaochao Yan
Jingkang Yang
Quanming Yao
Kwang Moo Yi
Xin Yu
Sangdoo Yun
Xingyu ZENG
Kuo-Hao Zeng
ZEKUN ZHANG
Yifan Zhao
Chenglong Zhao
Kaiyang Zhou
Mo Zhou
Yuqian Zhou
Jun-Yan Zhu
Maria Zontak
Maria A. Zuluaga
Marr Prize

- 13 papers were selected
- Nominated by two reviewers and 1 area chair
- Committee selected with no conflict, focusing on diversity
ICCV 2021 Marr Prize Committee

- Greg Mori (chair, Simon Fraser University, Canada)
- Tinne Tuytelaars (KU Leuven, Belgium)
- Kyong Mu Lee (Seoul National University, South Korea)
- Richa Singh (IIT Jodhpur, India)
- Xiaoming Liu (Michigan State University, US)
- Kosta Derpanis (York University, Canada)
- Barbara Caputo (Politecnico di Torino, Italy)
Nominated papers

- 4 papers for honourable mention
- 1 paper for Best Student Prize
- 1 Marr Prize - Best Paper Prize
Honorable Mentions

Mip-NeRF: A Multiscale Representation for Anti-Aliasing Neural Radiance Fields

Jonathan T Barron, Ben Mildenhall (Google Research), Matthew Tancik (UC Berkeley), Peter Hedman (Google Research), Ricardo Martin-Brualla (Google), Pratul Srinivasan (Google Research)

Session 5 (A/B)
OpenGAN: Open-Set Recognition via Open Data Generation

Shu Kong, Deva Ramanan (Carnegie Mellon University)

Session 1 (A/B)
Honorable Mentions

Viewing Graph Solvability via Cycle Consistency

Federica Arrigoni (University of Trento), Andrea Fusiello (UNIUD), Elisa Ricci (University of Trento), Tomas Pajdla (Czech Technical University in Prague)

Session 5 (A/B)

Abstract

In structure-from-motion the viewing graph is a graph where vertices correspond to cameras and edges represent fundamental matrices. We provide a new formulation and an algorithm for establishing whether a viewing graph is solvable, i.e. it uniquely determines a set of projective cameras. Known theoretical conditions either do not fully characterize the solvability of all viewing graphs, or are exceedingly hard to compute for they involve solving a system of polynomial equations with a large number of unknowns. The main result of this paper is a method for reducing the number of unknowns by exploiting the cycle consistency. We advance the understanding of the solvability by (i) finishing the classification of all previously undecided minimal configurations of cameras, up to a single projective transformation. In other terms, for a non-solvable viewing graph there exist multiple transformations that can be applied to the cameras without affecting the fundamental matrices. An equivalent definition of solvability is given in [19], stating that a graph is solvable if and only if the available fundamental matrices uniquely determine the remaining ones, i.e., the input graph can be transformed into the complete graph.
Honorable Mentions

**Common Objects in 3D: Large-Scale Learning and Evaluation of Real-life 3D Category Reconstruction**

Jeremy Reizenstein (Facebook AI Research), Philipp Henzler (University College London), Roman Shapovalov, Luca Sbordone, Patrick Labatut, David Novotny (Facebook AI Research)

Session 8 (A/B)

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Figure 1: We introduce the **Common Objects in 3D (CO3D)** dataset comprising 1.5 million multi-view images of almost 19k objects from 50 MS-COCO categories annotated with accurate cameras and 3D point clouds (visualized above).
Best Student Paper Award

Pixel-Perfect Structure-from-Motion with Featuremetric Refinement

Philipp Lindenberger, Paul-Edouard Sarlin, Viktor Larsson (ETH Zurich), Marc Pollefeys (ETH Zurich / Microsoft)

Abstract

Finding local features that are repeatable across multiple views is a cornerstone of sparse 3D reconstruction. The classical image matching paradigm detects keypoints per-image once and for all, which can yield poorly-localized features and propagate large errors to the final geometry. In this paper, we refine two key steps of structure-from-motion by a direct alignment of low-level image information from multiple views: we first adjust the initial keypoint locations prior to any geometric estimation, and subsequently refine points and camera poses as a post-processing. This refinement is robust to large detection noise and appearance changes, as it optimizes a featuremetric error based on dense features.
Swin Transformer: Hierarchical Vision Transformer using Shifted Windows

Ze Liu (USTC), Yutong Lin (Xi'an Jiaotong University), Yue Cao (Microsoft Research), Han Hu (Microsoft Research Asia), Yixuan Wei (Tsinghua University), Zheng Zhang (MSRA, Huazhong University of Science and Technology), Stephen Lin (Microsoft Research), Baining Guo (MSR Asia)

Session 8 (A/B)
Congratulations