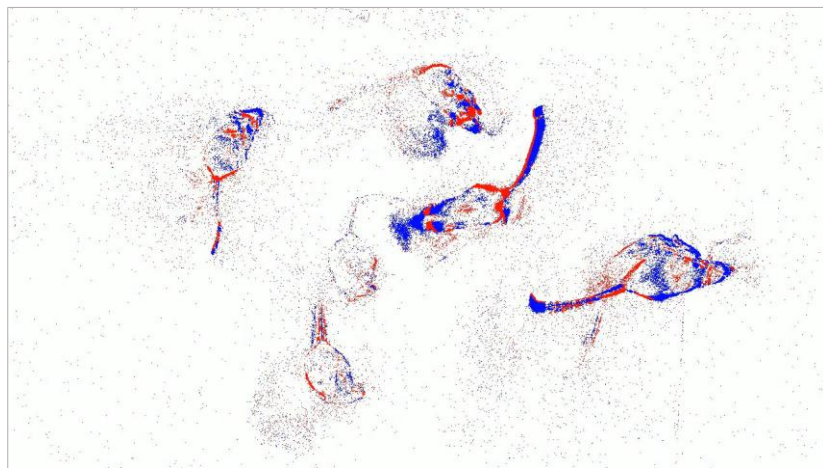


Spatio-temporal Instance Segmentation Challenge

Friedhelm Hamann, Guillermo Gallego

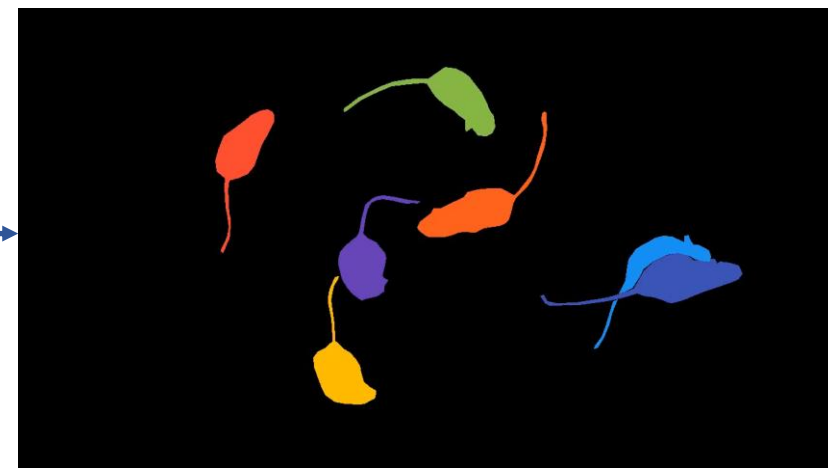


Events



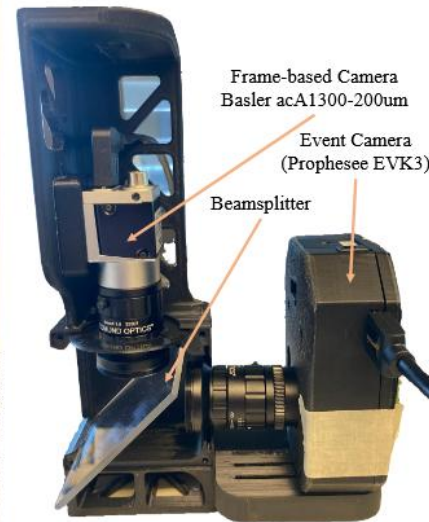
Grayscale

Your
Model

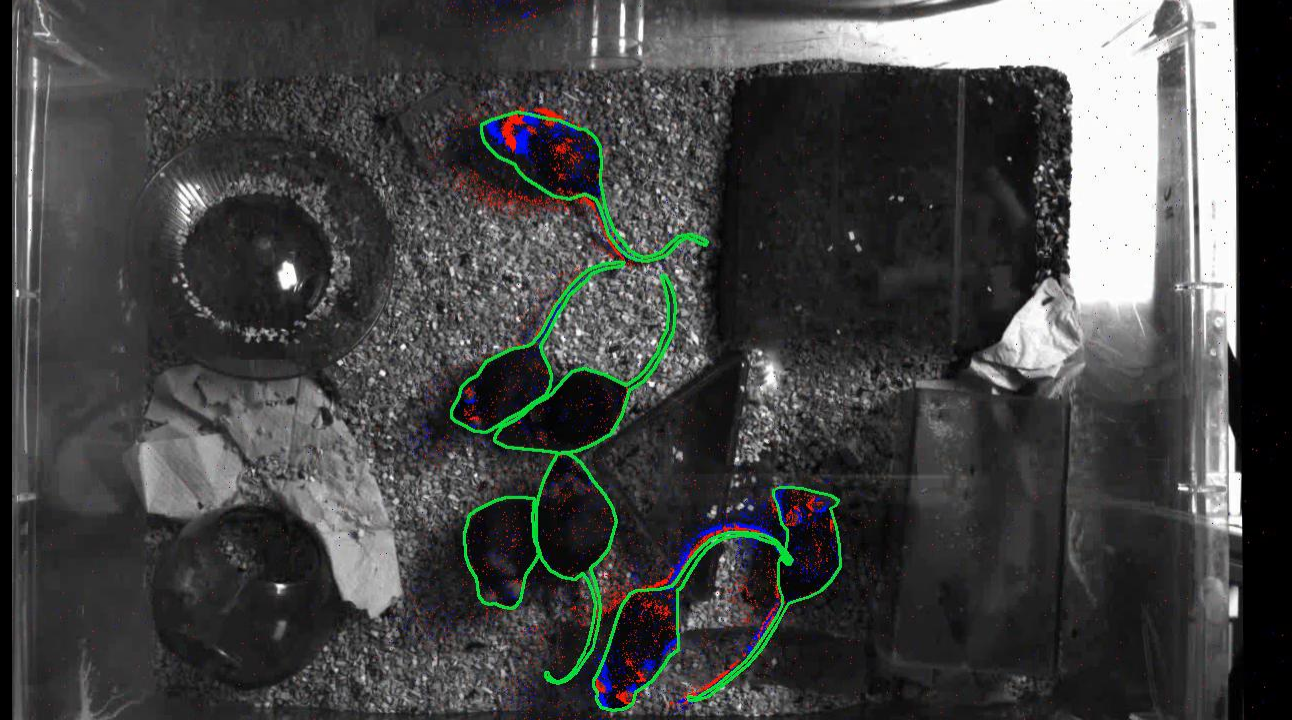
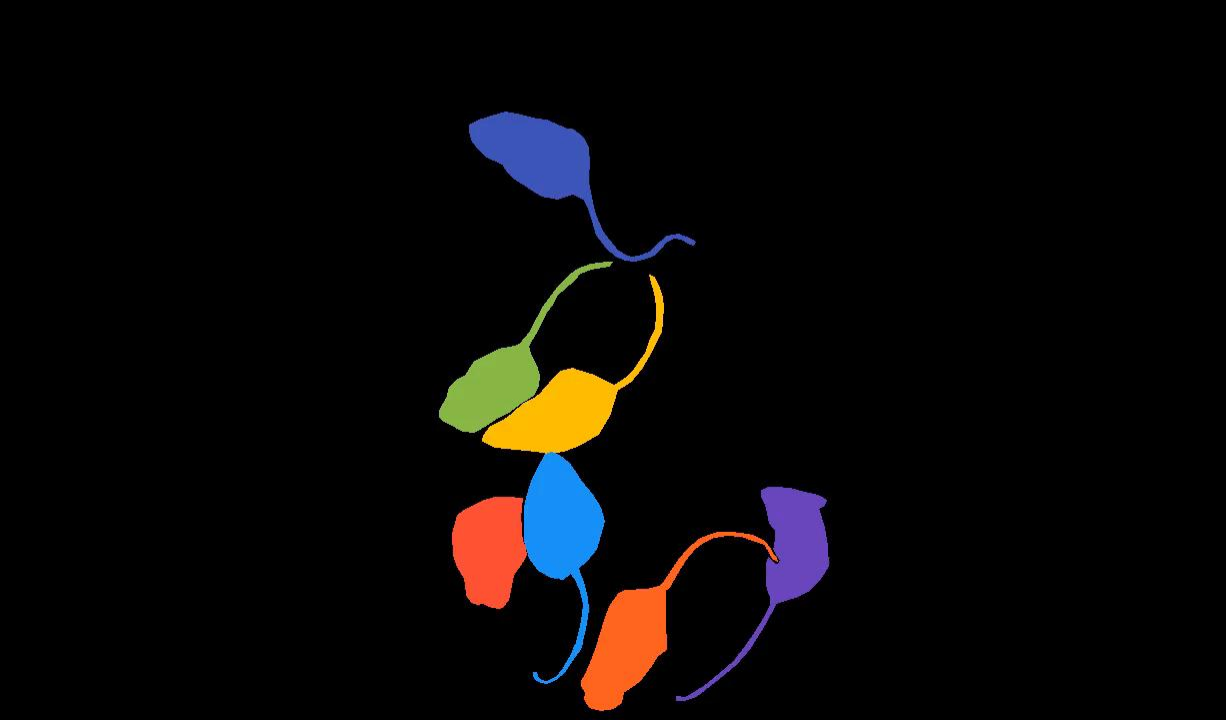
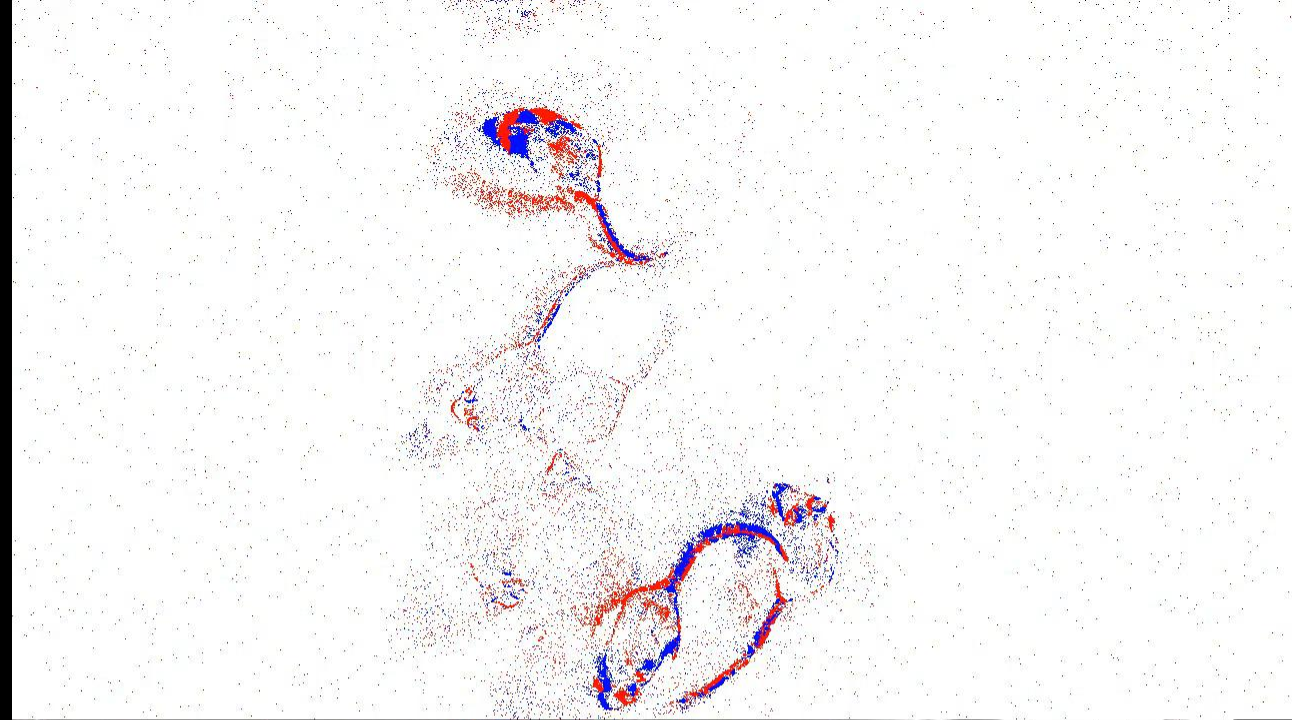
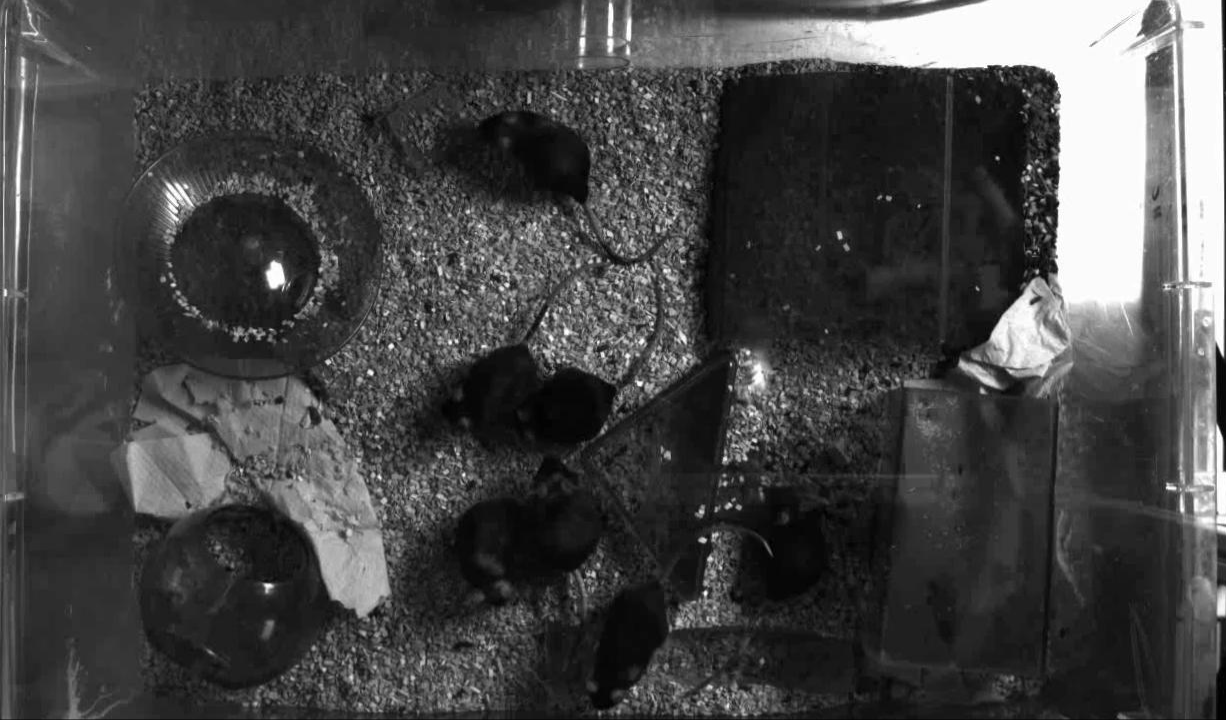


Predicted Masks

MouseSIS Dataset



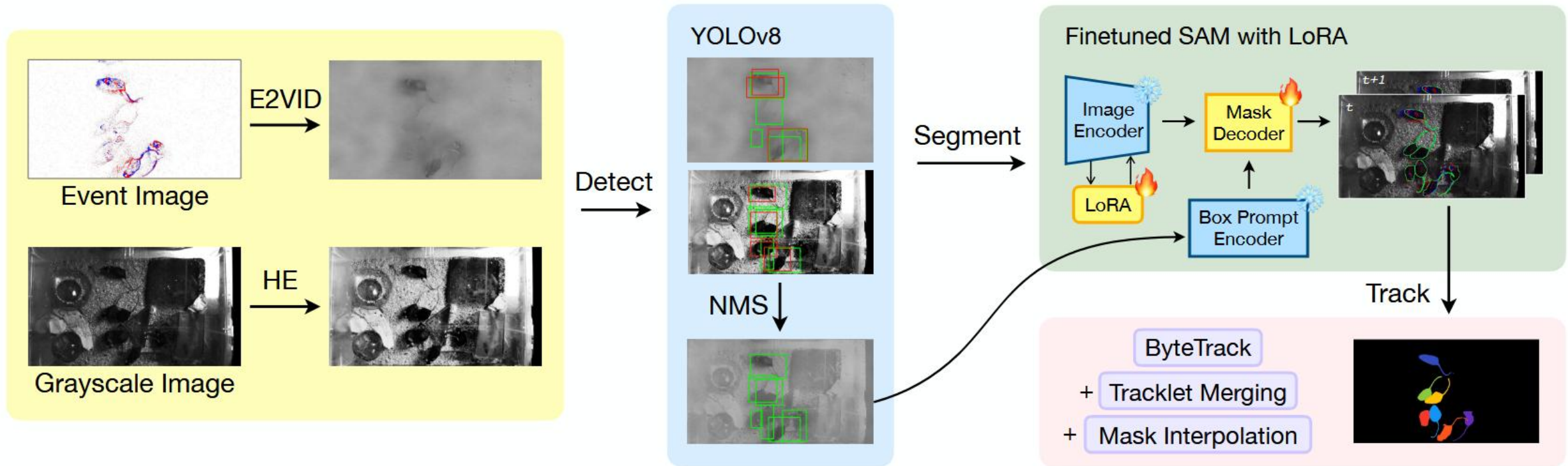
- Space-time instance segmentation dataset focused on mice tracking
- Combined frames and event data from neuromorphic vision sensor
- 33 sequences (~20 seconds each, ~600 frames per sequence)
- YouTubeVIS-style annotations



Participation Overview

- 62 enrolled participants
- 14 leaderboard submissions
- 5 best teams submitted factsheets
- Prevalent methods: tracking-by-detection combined with deep pre-trained priors (e.g. SAM)

Winning Method: RWTH Aachen University





1st Place - emilmed (HOTA: 0.62)

Team: Emil Mededovic, Fabian Gülhan, Yuli Wu, Johannes Stegmaier

Institution: RWTH Aachen University

2nd Place - enidx (HOTA: 0.57)

Team: Jing He, Yiqing Wang, Kexin Zhang, Lingling Li, Licheng Jiao, Mengru Ma

Institution: Xidian University

3rd Place - mystertypepeople (HOTA: 0.54)

Team: Hongxiang Huang¹, Yuhao Yan², Hongwei Ren¹, Xiaopeng Lin¹, Yulong Huang¹, Bojun Cheng¹

Institutions:

¹Hong Kong University of Science and Technology

²Sun Yat-sen University

4th Place - shlee (HOTA: 0.54)



Team: SeHyun Lee, Gyu Sung Ham, Kanghan Oh, Gi Hyun Lim

Institution: AI Convergence Research Institute, Wonkwang University

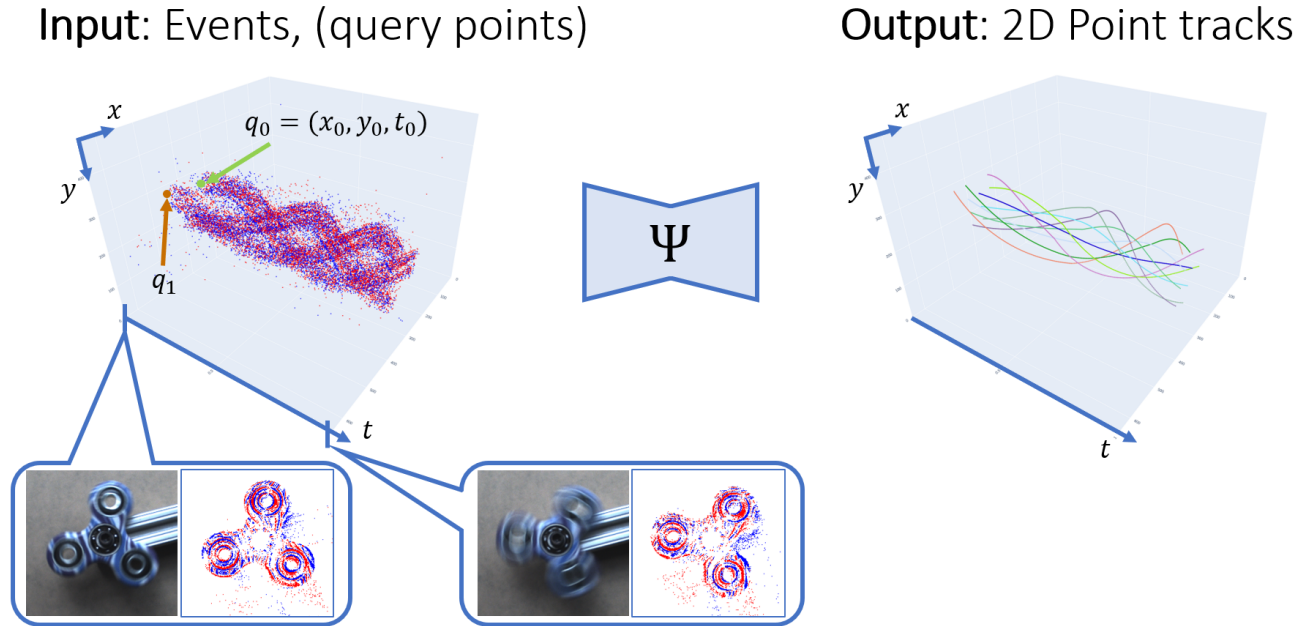
5th Place - vivien (HOTA: 0.54)

Team: Boxuan Yang, Bowen Du

Institution: Tongji University

ETAP: Event-based Tracking of Any Point

CVPR'25 Highlight



- Poster at Sunday (15.06), 4 – 6pm, ExHall D Poster #99
- Today (12.06), 10am – 1:30pm ExHall D, poster boards #280 - #359