

Translational AI Center (TrAC) Training Fall 2023

Mini-Course: Computer Vision and Self-Supervised Learning Aug 28th, Sept. 11 and 18, 2023, 4:00 – 6:00 PM Location: Zoom

Join us for three two-hour sessions exploring current AI techniques and innovative approaches with the potential to reshape the computer vision and self-supervised learning domains.

List of topics:

1. Day 1: Computer Vision
 1. Dive into object classification, detection, segmentation, and pose tasks with exercises using YOLOv8.
 2. Extend YOLOv8 to object tracking with Deep OC-SORT.
 3. Explore SOTA models like CLIP, Grounding DINO, and Fast SAM and their applications.
 4. Estimate depth given a single RGB image with MiDaS.
2. Day 2: Self-Supervised Learning – Pretext tasks and training strategies for pretext training
3. Day 3: Self-Supervised Learning – Finetuning the models for downstream tasks

When: Aug 28th, Sept. 11, and 18, 2023, 4 PM – 6 PM

Mode of Instruction: Online, Zoom

Registration:

To register for the mini-course and complete the survey, please visit: <https://forms.gle/o8t4NAnEcfBE1GJ6A>

Registration deadline: **Aug 28, 2023**

Registration Cost:

Students: \$30

Industry Professionals: \$250 per person (we will send you invoice after you fill the registration survey)

Contact Information:

For more information, please email: bacity@iastate.edu



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