Supplemental Materials on

POD: Discovering Primary Objects in Videos Based on Evolutionary Refinement of Object Recurrence, Background, and Primary Object Models

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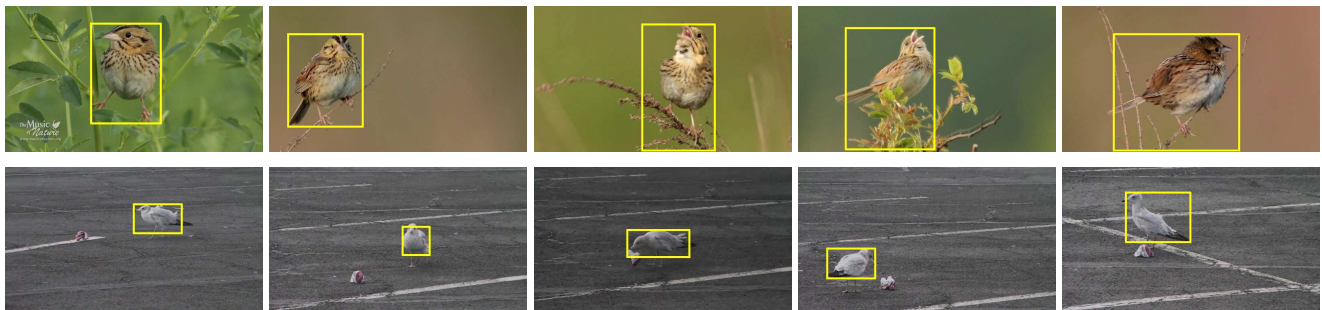
S-1. Experimental Results on YouTube-Objects Dataset

Figures S-1∼S-3 show primary object discovery results of the proposed POD algorithm on the YouTube-Objects dataset.

S-2. More Primary Object Discovery Results on POV dataset
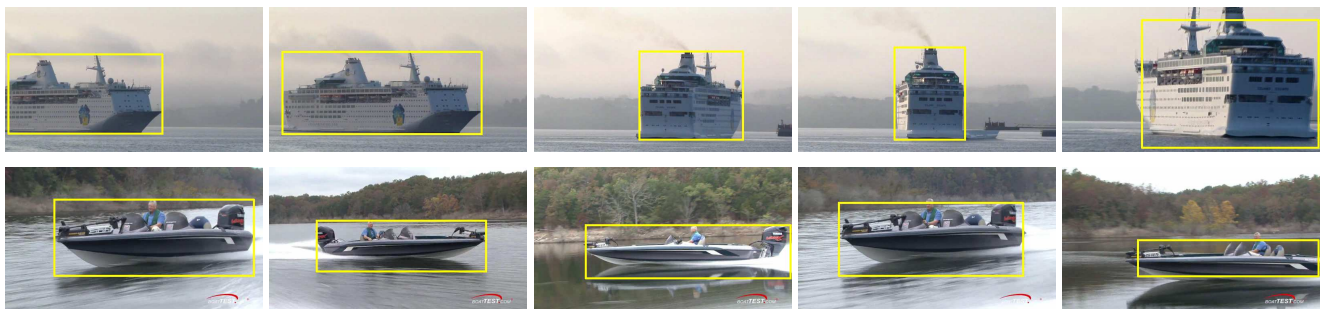
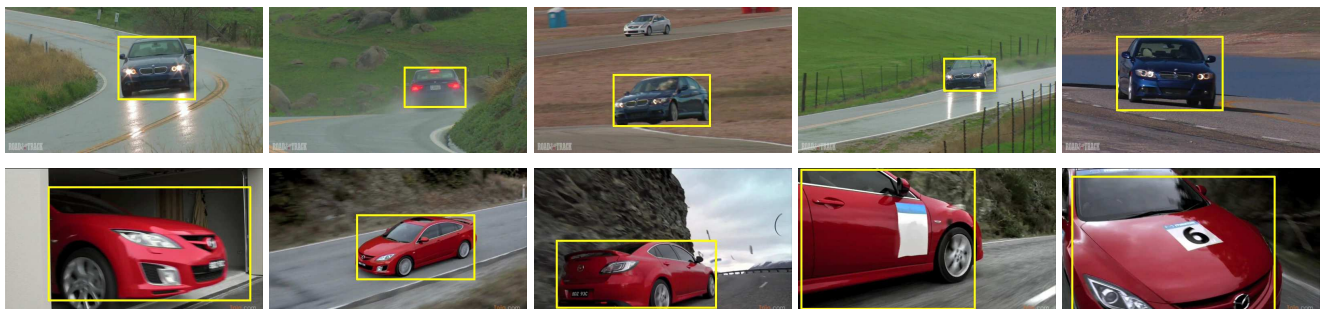Figures S-4 compares more primary object discovery results on the POV dataset.
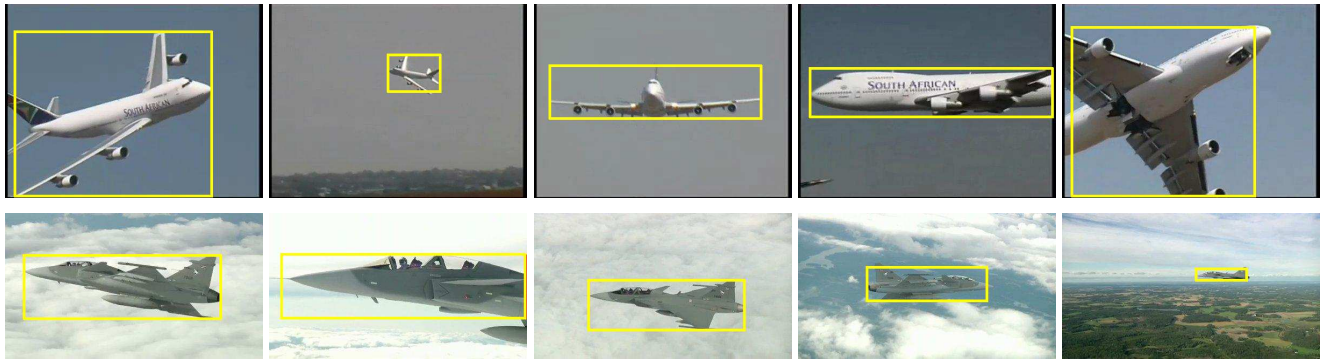
(a) Aeroplane

(b) Bird
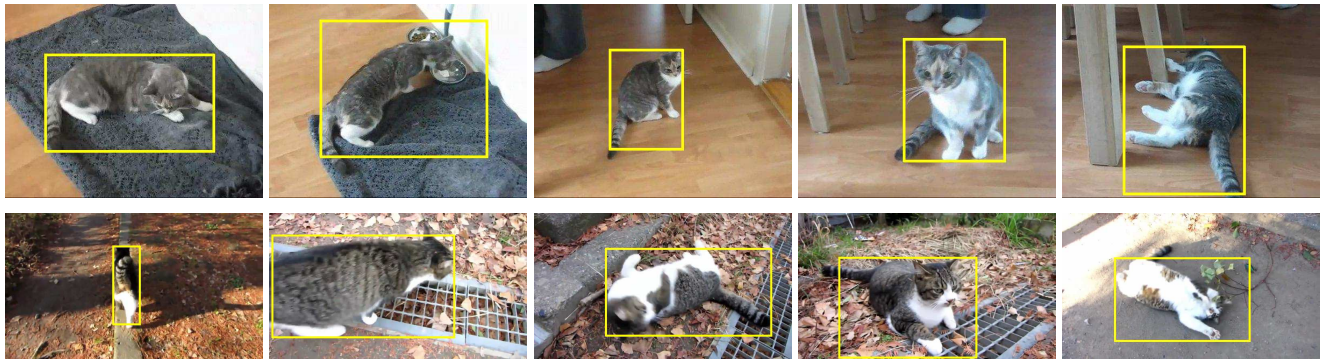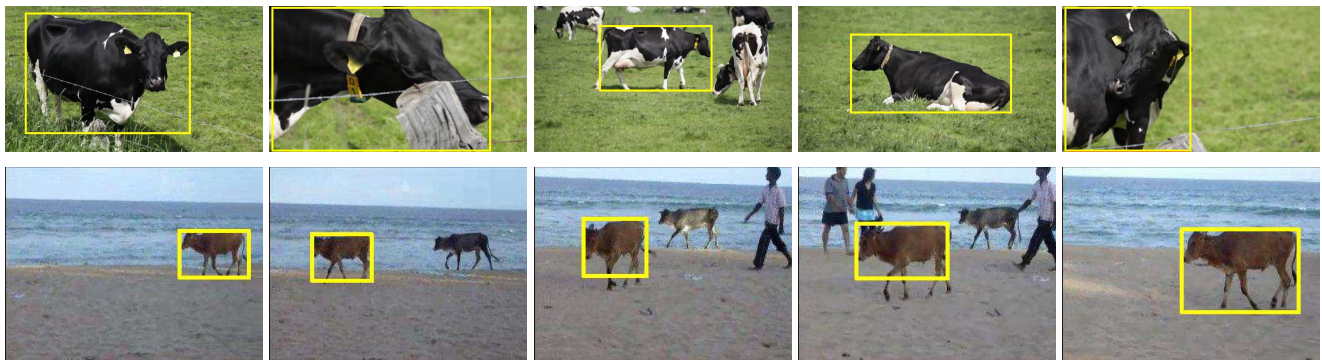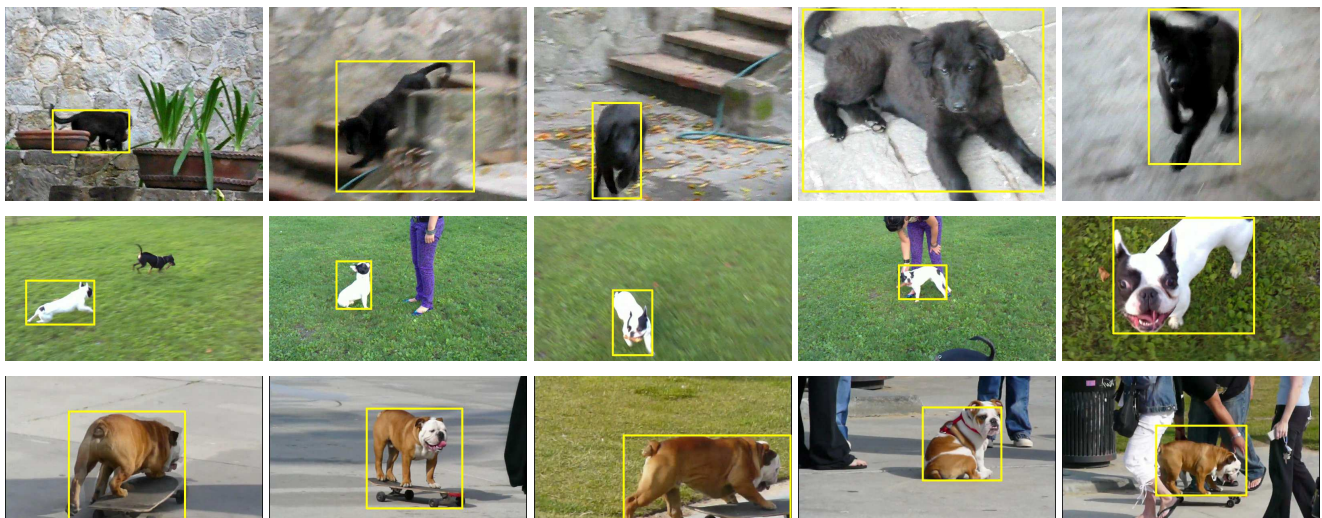

(c) Boat

(d) Car

Figure S-1. Primary object discovery results on the YouTube-Objects dataset: (a) "Aeroplane," (b) "Bird," (c) "Boat," and (d) "Car" classes. In each subfigure, different rows show primary object discovery results for different videos.
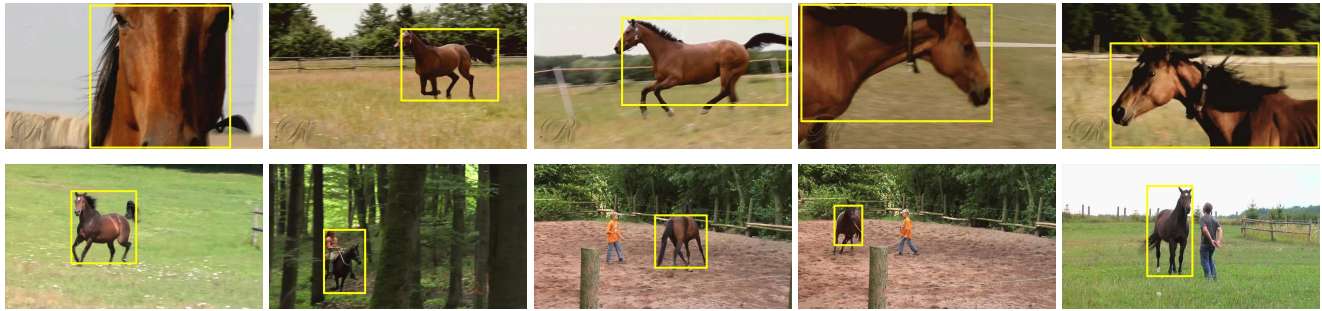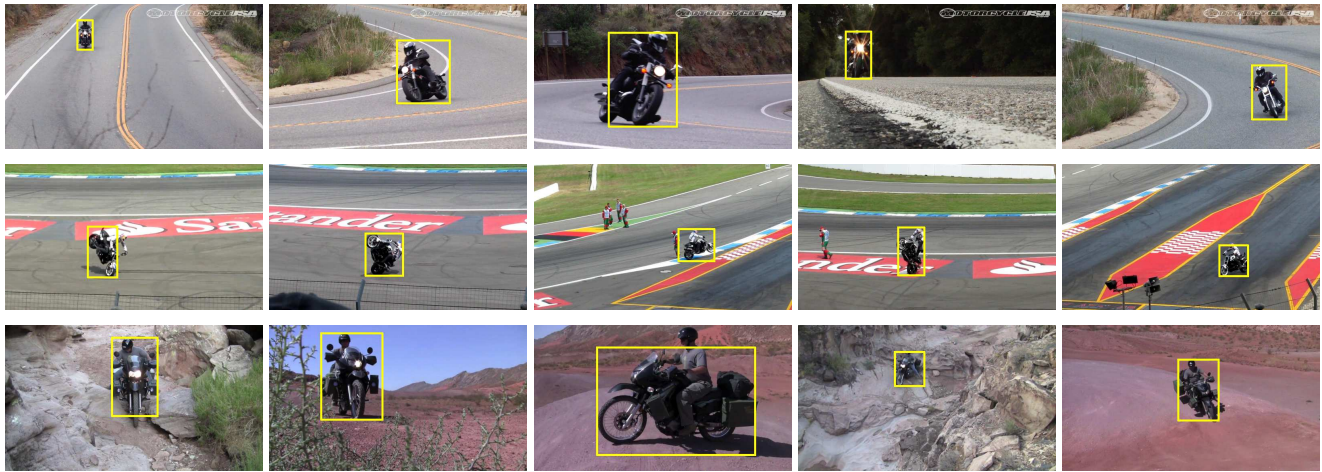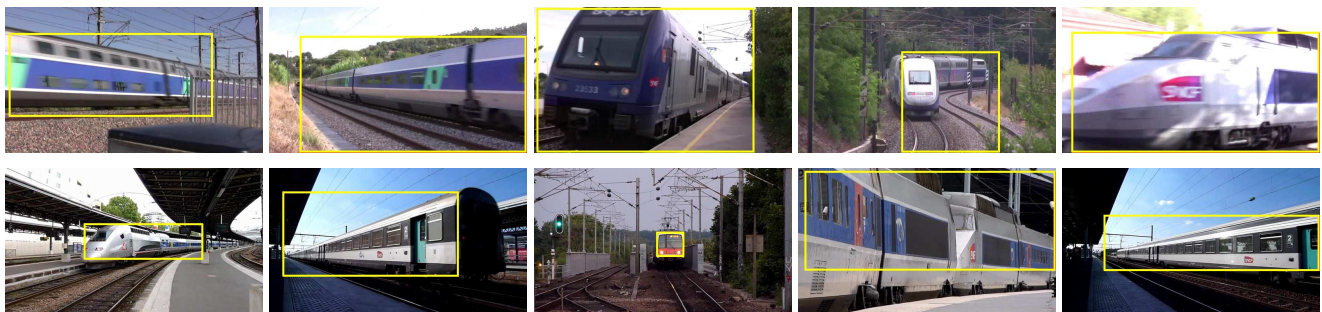
(a) Cat

(b) Cow

(c) Dog

Figure S-2. Primary object discovery results on the YouTube-Objects dataset: (a) "Cat," (b) "Cow," and (c) "Dog" classes. In each subfigure, different rows show primary object discovery results for different videos.

(a) Horse

(b) Motorbike

(c) Train

Figure S-3. Primary object discovery results on the YouTube-Objects dataset: (a) "Horse," (b) "Motorbike," and (c) "Train" classes. In each subfigure, different rows show primary object discovery results for different videos.

Figure S-4. More primary object discovery results on the POV dataset. Top to bottom: "Baby," "Helicopter," "Rabbit," "Babypanda," "Yellow Bear," "Raccoon," "Polarbear," "Baby2," "Frozen," and "Dooly."