

<< File: person_detection_tracking.py >>

TrackUtils

- + linear_assignment(cost_matrix) -> ndarray
- + iou_batch(bb_test, bb_gt) -> ndarray
- + associate_detections_to_trackers(detections, trackers, iou_threshold=0.3) -> Tuple[ndarray, ndarray, ndarray]
- + convert_bbox_to_z(bbox: List[float]) -> ndarray
- + convert_x_to_bbox(x: ndarray, score=None) -> ndarray

KalmanBoxTracker

- + kf: KalmanFilter
- + id: int
- + time_since_update: int
- + history: List[ndarray]
- + hits: int
- + hit_streak: int
- + age: int

- + __init__(bbox: ndarray)
- + update(bbox: ndarray)
- + predict() -> ndarray
- + get_state() -> ndarray

Sort

- + max_age: int
- + min_hits: int
- + iou_threshold: float
- + trackers: List[KalmanBoxTracker]
- + frame_count: int

- + __init__(max_age=5, min_hits=3, iou_threshold=0.3)
- + update(detections=np.empty((0, 5))) -> ndarray