Query: car Q1: where is the road? 8.0 0.6 0.4 0.2 Road House Sky Human 8.0 0.6 0.4 0.2 voting from road detector road detector result Road House Sky Human Q2: where is the house? search area for car search area for car voting from house detector house detector result STOP context 0.5 0.5 0 Car Plane Plane Car