Domain Adaptation for Semantic Segmentation in Automonous Driving

Thesis Defence

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Motivation

Basic Notions I

Def. (Topology)
A **topology** on a set X is a set τ of subsets of X , called open sets, with the properties: (1) The union of an arbitrary family of open sets is open. (2) The intersection of a finite family of open sets is open. (3) The empty set ; and X are open.

$< X, \tau >$ is called a topology space.

Basic Notions II

Def. (Basis)
A subset $\mathscr{B}$ of a topology τ is a basis of τ iff. each U is a union of elements of $\mathscr{B}$.

Def. (Continuous)
$f : X \to Y$ is continuous iff. $U \in Y$ is open $\Longrightarrow f^{-1}(U) \in X$ is open.

Basic Notions III

Def. (Quotient Map)
$f : X \to Y$ is *onto*, f is a quotient map iff. $V \in Y$ is open $\iff$ $f^{-1}(V)$ is open.

Method

Quantitative Results

Thank you for listening!