

End-to-end deep learning

Whether to use end-to-end learning

Pros and cons of end-to-end deep learning

Pros:

- Let the data speak Jones you don't want to be noted by Less hand-designing of • Less hand-designing of components needed

Cons:

May need large amount of data (*/)

Excludes potentially useful hand-designed components

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Applying end-to-end deep learning

Key question: Do you have sufficient data to learn a function of the complexity needed to map x to y?



Antonomous car

Antonomous Car

Image -> cars

Four for Acceleration

Radar Lypedestrians X seconds

Braking - What about finding the intended directions of cars/pedestrians around you? That part is not done his DNN That part is not done his DNN Rather done by motion planning i. Its hard to apply EZE DL on Autonomous cars
where you go from Image -> steering