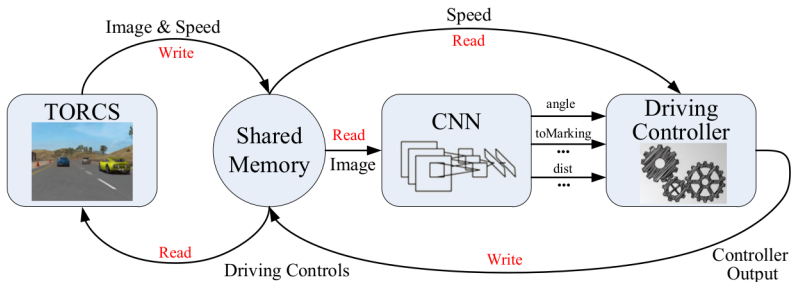


DeepDriving: Learning Affordance for Direct Perception in Autonomous Driving

C. Chen, A. Seff, A. Kornhauser, J. Xiao (ICCV 2015)



- ▶ Existing methods can be categorized into two major paradigms:
 - ▶ Mediated perception approaches that parse an entire scene to make a driving decision
 - ▶ Behavior reflex approaches that directly map an input image to a driving action by a regressor
- ▶ Contributions:
 - ▶ Proposes to map input image to a small number of perception indicators
 - ▶ These indicators directly relate to the affordance of a road/traffic state for driving
 - ▶ This representation provides a set of compact descriptions of the scene to enable a controller to drive autonomously