AAE 590 Multi-Agent System Control

Prof. Mou

Tomoki Koike

Safe Learning in Robotics by Professor Claire J. Tomlin

Summary:

Using a jacobi-hamilton function

find the zero-level set or safe sets that indicate the confidence or safety margin of the autonomous vehicle to avoid collision and safe maneuver. Reachable sets computation for robotic safe planning there can be in implementation of machine learning. Reachable sets can be used as buffers of obstacle avoidance which is a bound for worst case scenario. This can be precomputed with machine learning with a dynamic model.