

Title

Lane Change Prediction – Artificial Intelligence vs. Humans

Abstract

The advent of automated driving systems has made self-driving cars the focus of attention of our society, given the impact that they may have on socio-economic aspects. Self-driving cars can navigate in highways and cities, but they still have trouble to perform certain tasks at the same level that human drivers do. That is the case of predictive behavior. Anticipating the intentions of other drivers and VRUs is a really complex task that would endow self-driving cars with the capacity to emulate and even overcome human driving capacity. In particular, lane change prediction is one of such tasks that are specially relevant and useful when it comes to drive in crowded highways. In this presentation, I will analyze our latest research on lane change prediction systems and will present a comprehensive comparison between Artificial Intelligence and Humans in terms of accuracy and delay. The talk will also include the presentation of real results on a proving ground under EuroNCAP standardized scenarios.