

Open Source in Autonomous Driving. Accelerating development towards automation

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Abstract

Developing Autonomous Driving Systems is a complex endeavor that very few institutions are able to accomplish on their own. The safety and performance requirements expected from commercial automated vehicles are forcing car makers and automotive suppliers to look beyond traditional in-house software development. Thus, the road to automation is becoming an industry wide effort in which automotive industry collaborates with academics, research institutions, governments, and private parties to collaborate and bring different expertise to build on each other's shoulders.

In this talk Ignacio will provide an overview on the importance of open-source software for the development of Autonomous Driving Systems with examples from Intel Lab contributions to automated driving simulation, safety, and system development tools. You will learn how to access and use these tools for learning autonomous driving fundamentals, but also how the same tools are employed to test and benchmark in the industry and how you can start contributing today.

Keywords: open source; autonomous driving systems; software development; vehicle.