

SimCert – Rating Simulation Solutions

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1 Motivation, and aim of work

Environment simulation software is gaining ever more traction in the process of developing ADAS and Autonomous Driving systems. A growing market provides solutions and offerings at unprecedented scale and with a large variety of features. Transparency is often hard to come by, and sorting marketing claims from product performance facts is a challenge.

This dynamic and lucrative market will attract new players – from users’ and vendors’ side – which may lead to further diversification. Keeping an overview of use cases and applicable solutions will be crucial for all parties involved. The evolution of standards, regulatory requirements, validation schemes etc. will add to the list of criteria that might be relevant for identifying the best-fit solution for someone’s application.

SimCert aims to address these issues by providing independent, impartial reviews of open source and commercial tools along a unified list of criteria that originate from the founders' 25+ years of experience in this business.

We want to contribute to making the process of matching users with vendors efficient. Our initiative is certainly only one piece in the puzzle. But if we can provide something like a low-key entry point for an interested party’s market research, we have already achieved a substantial improvement over today’s situation.

2 Main results being presented

We will present the evolution of our initiative from the very first idea to the status by the date of the symposium. The project started on May 2nd, 2021 and is in its early days – but it already has a lot of attention. It will be interesting to take a quick look back on its first months of operation as well as having an outlook on its roadmap for the near-term and mid-term future.

3 Originality and significance

SimCert is a first in focusing on (environment) simulation solutions for ADAS and Automated Driving and providing unbiased information on the market’s offerings. Its significance will be defined by the support it receives from the players in the market and may range anywhere between “nice-to-have” and “indispensable”. We will hopefully be able to make a clear statement in September 2021.

4 Keywords

Rating, Certification, Simulation, Market