

## Wanted: Student Papers on Virtual Test Driving

The simulation competition “SimulOscar 2017” has begun

The third SimulOscar competition is kicking off just in time for the start of the summer semester. We’re looking for student papers that use virtual test driving to investigate an aspect of vehicle development. In organizing this competition, IPG Automotive is looking to support students who have used CarMaker, TruckMaker or MotorcycleMaker to implement their projects and achieved outstanding results. The submission deadline is December 31, 2016. Cash prizes and an award ceremony await the three winners.

Karlsruhe, April 19, 2016 – Virtual test driving is becoming an increasingly common part of both development processes and research projects, as it makes it possible to conduct many maneuvers, scenarios and comprehensive tests both efficiently and cost-effectively. Investigations may address a broad range of aspects of different application areas – from an accident free traffic flow scenario to automated driving to the optimization of the range of battery electric vehicles – but may also involve fundamental research on the efficient development of control unit functions. IPG Automotive established the SimulOscar competition with the goal of discovering exciting papers that address one of the many topic areas in the broad field of virtual test driving and introducing these topics to the public. The prize was already awarded in 2015 and 2016. In the first year of the competition, first place went to a bachelor thesis at the Karlsruhe Institute of Technology (KIT); this year a student paper that arose out of an international collaboration between the University of Stuttgart and Chalmers University of Technology (Gothenburg) received the honor. Under the motto, “We’re looking for your project!”, students are once again encouraged to submit their papers on testing various application scenarios in the virtual world.



Figure: The SimulOscar award is being offered for the 3rd time

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## **The Most Important Information at a Glance: Participation, Prizes, Award Ceremony**

In order to discover as many interesting papers as possible, there are no restrictions on age, the location of the university, or any other similar conditions. In order to submit a paper for the SimulOscar, it must have been handed in to a university during the participation period (March 15 – December 31, 2016). Both smaller studies and theses are eligible, as are team submissions. The abstract for the competition must be written in German or English. All documents can be sent to [mein\\_projekt@ipg.de](mailto:mein_projekt@ipg.de). The prizes are: 700 euros for 1st place, 500 euros for 2nd place and 300 euros for 3rd place. The winners will be announced and an award ceremony will take place at IPG Automotive's Open House 2017, the annual industry meeting for virtual test driving, in Karlsruhe.

## **What Matters Most – the Judging Criteria**

First and foremost, the expert jury expects students to have achieved a high level of technical knowledge in their chosen subject, which must be reflected in the standard of their paper. Along with fulfilling the formal criteria, the topicality of the topic and the innovative value of the paper are also especially important. Of course, this doesn't mean that every paper has to address automated driving – examining new aspects of an "old" topic is an equally valid approach. What's important is that the paper is relevant to current issues facing the industry.

Complete information on the call for papers, the conditions of participation and the submission template are available online at: <http://ipg.de/en/research-teaching/simuloscar-2017/>

## **About IPG Automotive GmbH**

As an innovation driver for virtual test driving, the company is a leading global provider of software and hardware products for the automotive and supplier industry. With the areas Simulation Software, Real-time Hardware, Test Systems and Engineering Services, IPG Automotive supports its customers in creating innovations and shaping their development process efficiently.

The innovative solutions CarMaker, TruckMaker, and MotorcycleMaker, as open integration and test platforms, facilitate great savings in time and cost for customers, in a continuous development process of Model-, Software- and Hardware-in-the-Loop, all the way to the Vehicle-in-the-Loop method. The application ranges from the vehicle dynamics simulation, developing and testing of chassis control systems, to interconnected systems such as chassis, powertrain and steering.

One of the biggest strengths of IPG Automotive is the integration and testing of all kinds of advanced driver assistance systems within IPG's future-oriented solutions.

## **Your press contact**

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