Collaboration between IPG Automotive and Ansys: Simulation Solutions for Virtual Test Driving

The simulation platforms CarMaker and VRXPERIENCE join forces

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IPG Automotive and Ansys collaborate in a strategic partnership. Their goal is to accelerate vehicle development with a new interface between the simulation platforms CarMaker and VRXPERIENCE.

IPG Automotive and Ansys work jointly to improve and advance developments in the field of autonomous driving and driver assistance. The combination of IPG Automotive's CarMaker and Ansys' VRXPERIENCE forms synergies that enable mutual customers to benefit from the advantages of both platforms.

As an open integration and test platform, CarMaker provides the basis for virtual test driving. The simulation platform follows the automotive systems engineering principle and enables a seamless development and validation of the overall system in the full vehicle and in realistic scenarios. For this purpose, CarMaker combines a holistic environment model including highly detailed simulation models. Real-time capable physical models of all relevant sensor technologies allow for testing and validation of automated driving functions.

Its combination with VRXPERIENCE opens up various possibilities for customers: they can, for instance, test the human machine interface, simulate headlights or apply physically based sensor simulation. The interface between CarMaker and VRXPERIENCE allows to use the models from both simulation environments to meet the increasingly complex requirements in the fields of AV and ADAS.

The ensured real-time capability also enables a seamless usage in the development process from MIL to SIL to HIL which maximizes cost and time savings.

Captions

[Partner_IPGAutomotive_Ansys]

IPG Automotive and Ansys combine their simulation platforms CarMaker and VRXPERIENCE.

Picture: IPG Automotive/Ansys

About IPG Automotive GmbH

As a global leader in virtual test driving technology, IPG Automotive develops innovative simulation solutions for vehicle development. Designed for seamless use, the software and hardware products can be applied throughout the entire development process, from proof-of-concept to validation and release. The company's virtual prototyping technology facilitates the automotive systems engineering approach, allowing users to develop, test and validate new systems in a virtual full vehicle.

IPG Automotive is an expert in the field of virtual development methods for the application areas of Autonomous Vehicles, ADAS, Powertrain and Vehicle Dynamics, committed to providing support to master the growing complexity in these domains. Together with its international customers and partners, the company is pioneering simulation technology that is increasing the efficiency of development processes.

By taking real test driving into the virtual world as a complement to on-road testing, IPG Automotive contributes significantly to technical progress and shares in shaping the mobility of tomorrow with regard to comfort, safety, economic efficiency and environmental friendliness.

In addition to the company headquarters in Karlsruhe, Germany, IPG Automotive provides innovative development services to its customers and partners at the national offices in Braunschweig, Frankfurt, Stuttgart and Munich as well as in China, France, Japan, Korea, Sweden, the UK and the USA.

Further information at https://presse.ipg-automotive.com/

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