

ADASSENS with partner it-RSC at the Automotive Testing Expo Europe

Efficient engineering processes for the development of driver assistance systems

Germany, Lindau, 18th May 2018 – At the world's largest trade fair for automotive testing from June 5 to 7, 2018 in Stuttgart, Germany, ADASSENS Automotive GmbH and it-RSC GmbH will present their latest engineering technologies at their joint **booth 8260 in hall 8**, focusing on the fully automated testing and validation of algorithms for camera-based assistance systems (ADAS). Further focal points are the development and implementation of algorithms. A highly integrated software tool for the development and validation of image processing algorithms will be the focus of the presentation at the trade fair. All development phases are mapped in one workflow integrated in the Unified System of Tools (USoT). Partner it-RSC specializes in high-performance computing in industry and will present its high-performance system vCAX, a virtualization environment for graphical workstations and Deep Learning processes in production, at the Automotive Testing Expo Europe. The ADASSENS tool is based on it-RSC's vCAX system. Thus now a platform is offered, which realizes high performance processing and the processing of large amounts of data. This enables a very efficient design of labelling, annotation, training, testing and validation processes.

For the technological developments in the automotive industry with different assistance systems and autonomous driving, enormous amounts of data are collected, categorized and processed in order to be able to analyse, efficiently develop and virtually test. The companies ADASSENS and it-RSC present software solutions that stand for efficient development processes and thus for extensive virtualized and cost-optimized engineering for Tier 1 suppliers and OEMs for ADAS developments in the entire automotive industry.

Fast engineering processes with USoT

With the software system USoT (Unified System of Tools) ADASSENS maps all phases of a development workflow for camera-based assistance systems. All analyses and results are

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recorded in one system and forwarded to the next development phase. Each phase, from vehicle setup and integration with sensor data acquisition, through data preparation and recording to validation and resimulation, can be individually adapted to the respective development project. The USoT system from ADASSENS controls the workflow by automating process flows and documents results for quick and easy access by all parties involved. The core of the USoT is a comprehensive SQL database that guarantees complete traceability and availability of the data from the requirements to the recording and validation results. Corresponding high-level components are integrated in the Unified System of Tools. Thanks to the optimized workflow of the engineering processes, product quality is increased and development and management costs are significantly reduced.

Virtualization and Deep Learning with vCAX

With the new vCAX system from it-RSC, development engineers can be faster in their workflows up to 50%. Graphics workstations with CAD and CAE get virtualized as well as complicated CAT and IPSS applications. vCAX works with high-performance technology from Dell EMC and Nvidia and is also ideal for Deep Learning. For this purpose, neural networks are used with which machines can learn and optimize themselves within the production processes. The two Deep Learning services Predictive Maintenance and Predictive Quality make up the main part of this. Customers thus achieve considerable savings in value creation, as the quality of the components produced is permanently optimised and the costs for scrap production are reduced. Especially in projects with huge data volumes, the developers and partners involved benefit from this capability. The complete system vCAX is delivered in a stable flight case and connected by it-RSC.

Please download images in the following link:

<https://profil-marketing.cloud/index.php/s/KKDyvuc4hmR0iMG>

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About it-RSC:

it-RSC GmbH specializes in high-performance computing in industry. With the help of virtualization and Deep Learning, the company with headquarters in Lower Saxony is a leader in Predictive Maintenance and Predictive Quality projects. Production processes and added value are optimized and costs reduced. At it-RSC, the name says it all. RockStar Consulting reflects the highest levels of competence in information technology and is therefore a guarantee for quality and reliability. The IT experts at it-RSC have more than 20 years of experience, are multiply certified and specialized in the development, implementation and maintenance of individual IT solutions.

Further information is available at www.it-rsc.de.

About ADASENS:

ADASENS Automotive GmbH, headquartered in Lindau on Bodensee, is part of FICOSA Group and operates independently within the FICOSA ADAS Business Unit. As a worldwide partner and system supplier to the commercial vehicle and automotive industry, ADASENS has been offering software components for the fully automated testing and validation of algorithms in camera-based assistance systems (ADAS) since 2006. With the Unified System of Tools (USoT), ADASENS has a highly integrable software tool for the development and validation of image processing algorithms, which maps all development phases in one workflow and takes into account the seamless design of labeling, annotation, training, testing and validation processes as well as third-party access. Further company focal points are the development and implementation of algorithms for autonomous driving and the development for automatic image calibration of exterior mirror cameras, which provide reliable image data at any time during the journey after contamination detection.

Further information is available at www.adasens.com.

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