

Inhaltsverzeichnis

Safe and Robust Function Development for Urban Autonomous Driving Based on Agile Methodology and DevOps

Dr. Roland Kallweit, Uwe Gropengießer, Jörn Männel und Rajanpreet Singh

Virtual test drives with multiple vehicles under test for the evaluation of collaborative assisted and automated driving functions

Jakob Kaths, Max-Arno Meyer, Christian Granrath, Jakob Andert und Sébastien Christiaens

Why Current Safety Analysis Methods Fail at Covering Lethal System Designs

Simon Friedmann

Emergency braking in a city bus - a new approach for protecting standing passengers

Richard Matthaei, Janik Ricke, Thomas Dieckmann, Waldemar Kamischke und Yunus Gülhan

Achieving Autonomous Driving in the Bus Industry

Ralf Marquard und Michael King

Progress on the AUTOSAR Adaptive Platform for Intelligent Vehicles

Dr. Günter Reichart und Rinat Asmus

Legal evaluation of monetizing automotive data

Oliver Köster, LL.M.

Self-driving vehicles will revolutionize the transportation system

Erik Coelingh und Jonas Ekmark

Trajectory Following Control for Automated Driving

Andreas Homann, Markus Buss, Martin Keller und Torsten Bertram

Concept and Implementation of an Optimization-based Safety Verification Strategy for a Trajectory Following Controller

Toni Lubiniecki, Sönke Beer, Alexander Meisinger, Felix Sellmann, Paul Spannaus und Georg Schildbach

High-Resolution Gated Depth Estimation for Self-Driving Cars in Adverse Weather

Tobias Gruber, Stefanie Walz, Werner Ritter und Klaus Dietmayer

Automated Testing of Vehicle Integrated Environmental Sensors

Lukas Birkemeyer und Michelle Rausch

High-Resolution Neural Style Transfer for Test Data Generation for ADAS/HAD Functions

Andrej Junginger, Markus Hanselmann, Thilo Strauss, Sebastian Boblest, Jens Buchner und Holger Ulmer

New Challenges for Deep Neural Networks in Automotive Radar Perception

Nicolas Scheiner, Fabio Weishaupt, Julius F. Tilly und Jorgen Dickmann

Clouds Ahead – The Transformation of Vehicle Development and Data Management Processes

Dr. Gerhard Niederbrucker, Albrecht Pfaff, Dr. Christian Donn und Dr. Michael Kochem

Highly Parameterizable and Generic Perception Sensor Model Architecture

Clemens Linnhoff, Philipp Rosenberger, Martin Friedrich Holder, Nicodemo Cianciaruso und Hermann Winner

Analysis of Depth Estimation and Semantic Segmentation Algorithms for the Environment Perception of Automated Vehicles

Manuel Schmidt, Niklas Stannartz und Univ.-Prof. Dr.-Ing. Prof. h.c. Dr. h.c. Torsten Bertram

Planning Trajectories Using an Extended Sequential Linearization Algorithm

Marco Sippel und Hermann Winner

**Maintaining performance of driver assistance systems and automated
driving functions over the life cycle**

Helge Kiebach