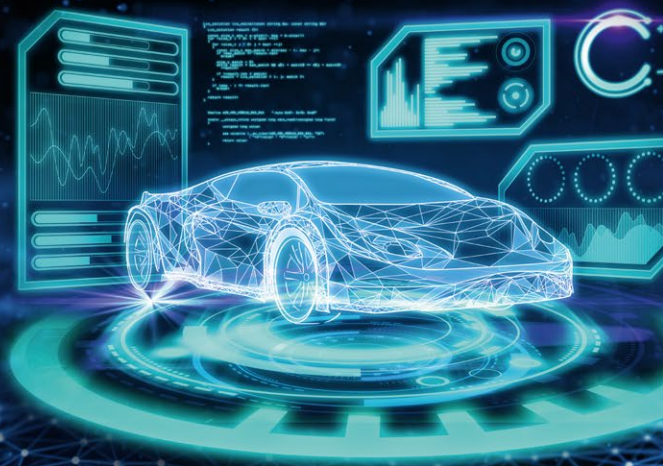




Fraunhofer  
IESE



Virtual Test Benches

---

Validate  
ADAS functions  
in virtual worlds

[www.iese.fraunhofer.de](http://www.iese.fraunhofer.de)

Testing driving functions requires thousands of kilometers of test drives after each software change. Virtual test benches enable virtual test drives when real test drives on this scale are not possible.

## FERAL – Your Toolbox for Virtual Test Benches

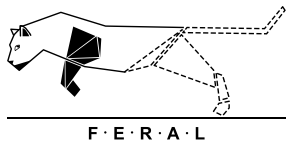
FERAL enables technical coupling of different simulators and executable software components through virtual communication buses across different levels of abstraction to create executable virtual test scenarios for CI/CD pipelines. The toolbox integrates numerous aspects: E/E platforms, networks, driving functions, as well as driver, camera, and environment models.

This offers you the following advantages:

1. Drive millions of virtual km to test ADAS functions
2. Enable CI/CD for automotive function development
3. Inject faults to assess system resilience
4. Deploy your test scenarios to realistic virtual platforms

By using virtual test benches, you can speed up your development processes and allow your test team to validate driving functions from home – without expensive and limited HiL testbeds. This enables you to detect design and software faults continuously, faster, and more accurately.

## Contact



Dr. Thomas Bauer

Business Area Manager Embedded Systems

Phone +49 631 6800-2188

thomas.bauer@iese.fraunhofer.de

Fraunhofer Institute for

Experimental Software Engineering IESE

Fraunhofer-Platz 1

67663 Kaiserslautern, Germany

[www.iese.fraunhofer.de](http://www.iese.fraunhofer.de)



[www.iese.fraunhofer.de/en/feral](http://www.iese.fraunhofer.de/en/feral)