

THE USE OF EDGE CASES FOR THE DEVELOPMENT OF AUTOMATED DRIVING.

EDGE CASES: A CHALLENGE AND AN OPPORTUNITY.



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RESEARCH QUESTIONS.

Research questions

- **Validity:** is the design of edge cases an efficient means to find safety-relevant defects of automated driving systems? In the other way, are safety-relevant defects caused by specific influence factors, or do they occur randomly?
- **Transferability:** does a safe system behavior for edge cases imply a safe system behavior for easier cases? Does the investigation of edge cases allow reducing the number of tests?
- **Sharing:** which knowledge on edge cases can be shared between companies: methodical, abstract, concrete?
- **Other sectors:** how are edge cases dealt with in medicine, aviation and other safety-relevant sectors?

Test space

