

## **Using AI Agents in Contract-Based Design**

Dr. Oscar Slotosch, Validas AG

This talk introduces the concept of an AI (development) agent—an AI system used as a development tool rather than being embedded in the final product. In the context of ISO 26262, such agents are not part of the operational software but are employed during development, particularly in contract-based design.

While standards for embedded AI are emerging (e.g., ISO 8800), AI agents used as tools can be assessed under existing ISO 26262 guidelines, specifically parts 8–11. This talk will define the Tool Confidence Level (TCL) from ISO 26262 8–11 and demonstrate how it applies to AI agents.

A practical example will show how AI agents can be used to generate software contracts, including interfaces and assertions. Based on this, I will propose a set of requirements for using AI agents in a way that ensures compliance with ISO 26262, supporting safe and reliable development practices.