

# Verification and Validation of Knowledge Based Systems

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## **Abstract**

The goal of this talk is to show that the set of available Validation and Verification (V&V) tools could be larger for Knowledge-Based Systems (KBSs) than for classical software. All the tools which use a black box approach may be applied on KBSs and a great number of glass box tools can be adapted to KBSs. For example the test-data generation is really effective with KBSs.

Moreover, the KBSs have more or less a declarative part and V&V requirements can be checked on the corresponding Knowledge Bases (KB). The KB consistency can be one of these requirements.

Some of the V&V requirements are very difficult to check on KBSs. The reason is not in the nature of a KBS or in the nature of the checking. The KBS approach is used to solve complex problems and then the V&V checkings are obviously also complex problems.