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Combining Monitoring with Run-time Assertion Checking

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Stellingen

door Stijn de Gouw, behorend bij het proefschrift
Combining Monitoring with Run-time Assertion Checking

1. It is possible, and even desirable, to add historical awareness to state-based specification and verification methods.
This thesis, Chapter 3.
2. To support scalable on-line parsing, it is crucial to develop incremental parsers for attribute grammars.
This thesis, Chapter 4.
3. To obtain useful error reports, it is crucial to find suitable abstractions.
This thesis, Chapter 7.
4. One must take the higher abstraction level of a modeling language such as Abstract Behavioral Specification Language seriously. That is, specification and verification techniques are needed independent of specific backends, at the abstraction level of the modeling language.
This thesis, Chapter 6.
5. There is a strong lack of tools in formal methods which are ready for industrial usage.
6. Scalability is not the only important quality of a verification tool. The ease of which the tool can be integrated in an existing software deployment is equally important.
7. For practical purposes it is important to reason about object creation at a high abstraction level. Quoting Wittgenstein: "Whereof one cannot speak, thereof one must be silent".
Ludwig Wittgenstein, Tractatus Logico-Philosophicus.
8. There is more between heaven and earth than Separation Logic.