

Phrases

- Model survival in change storms (G. Alférez)
- How fit is your model (Daniel Sykes)
- Mastering evolution using MRT (Sebastian G.)

What we know.

- performance of MRT is both sided (at runtime we may know that we just need to very a small part, whereas at design time we need to check all)
- two sides for verification
 - system evolved by reasoner, which ensures a consistent new configuration
 - system evolves itself/unanticipated we need to check if the appeared configuration is valid
- define boundaries for runtime adaptation to keep system verifiable/manageable
 - indicated by connections of models and by metamodels
 - constrained evolution to keep system verifiable
- problem space models vs solution space models (we don't verify in problem space)
- we cannot be sure about the correctness of our models collected at runtime
- but we can collect data and make statistical statements about their correctness

What we don't know.

- Are v&v tools at runtime performant enough
- Are v&v tools able to provide meaningful results (due to too strong assumptions)
- How open do we need to be
- Development processes for M@RT Systems

Questions for MRT13

- Work on real applications!
- Methodologies / Which tools/approaches are best for which purposes?
- Meta-Reasoning / M@RT-Hierarchies