Expressing Model Relations as Basis for Structural Consistency Analysis in Models@run.time

Models@run.time Workshop 2012

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Graph Diagrams

Requirements:
- Represent arbitrary modeling languages
- Represent multiple models
- Represent model relations
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  - ATGs as relation model
  - Morphisms for connection
Conclusion / Future Work

Graph Diagrams can be used as a formal representation of multiple models of arbitrary modeling languages and their relations.

Graph Diagrams can be formally defined in Category Theory.

Applicable Formalisms:
- Graph Transformation [Ehrig2006]
- Nested Conditions [Habel2009]
- Formal Results in Graph Transformation Theory [Ehrig2012, Ehrig2012b]
References


