Document-preparation

karl

22nd January 2024

Contents

Contents

Introduction

In this thesis, I show the corrspondence between various equivalences popular in the reactive systems community and and coordinates of a price function, as introduced by Benjamin Bisping (citation). I formalised the concepts and proofs discussed in this thesis in the interactive proof assistant Isabelle (citation).

- Reactive Systmes
- what are they
- modelling (via lts etc)
- Semantics of resysts
- Verification
- different notions of equivalence (because of nondeteminism?) -> van glabbeek
- Different definitions of semantics -> HML/relational/...

–> linear-time–branching-time spectrum understood through properties of HML

–> capture expressiveness capabilities of HML formulas via a function

–> Contribution o Paper: The in (citation) introduced expressiveness function and its coordinates captures the linear time branching time spectrum..

- Isabelle:

- formalization of concepts, proofs
- what is isabelle
- difference between mathematical concepts and their implementation?

introducing essential concepts like LTS, equivalence, HML, (relational equivalence definitions?) - mention sources (Ben / Max Pohlmann?)

1 Test

Hi world!