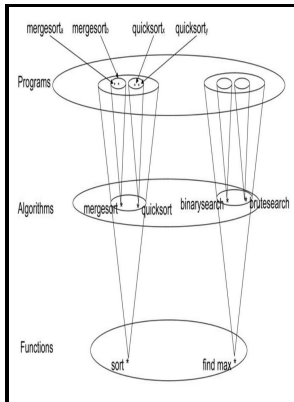


# Closure under stuttering in temporal formulas

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## On Closure Under Stuttering

Edges allow natural modelling of systems with events. In this paper we extend the pattern system with events — changes of values of variables in the context of LTL.

## On Closure Under Stuttering

This paper defines a generalization of Lamport's Temporal Logic of Actions. We prove that our logic is stuttering-invariant and give an axiomatization of its propositional fragment. That is, we do not want the interpretation of formulas to change over traces where some states are repeated.

## Partial order reduction for checking LTL formulae with the next

Nevertheless, specification languages that are based on interleaving semantics, such as linear temporal logic LTL, can distinguish between them. One such example is sequences that differ from each other by stuttering. i. Cite this paper as: Klein J.

## On

The core of our approach is a heuristic algorithm for detecting and extending SI components of Büchi automata BA during the translation from LTL formulae into BAs. More precisely, it supports the full class of LTL formulae with the next-time operator. References Cite this paper as: Michaud T.

## On Closure Under Stuttering

In this paper, we introduce a notion of edges of LTL formulas and present a formal theory of closure under stuttering. This knowledge allows us to skip states that are redundant under stuttering, which can reduce the size of the generated automaton. This new technique enables model checking algorithms to use POR even if the formulae are not stutter invariant SI.

## Practical Stutter

Also, some decidability problems are investigated.

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