



crest 1.0

Jonas Schöpf

Data Lab Hell

Aart Middeldorp

University of Innsbruck



- Constrained REwriting Software Tool

- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems

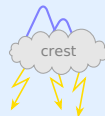
- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source

- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <https://jonas.schoepf.me/crest>

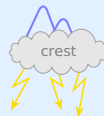
- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <https://jonas.schoepf.me/crest>
- ▶ crest accepts input problems in (more liberal) ARI format

- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <https://jonas.schoepf.me/crest>
- ▶ crest accepts input problems in (more liberal) ARI format
- ▶ crest uses Z3 as SMT solver

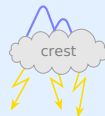
- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <https://jonas.schoepf.me/crest>
- ▶ crest accepts input problems in (more liberal) ARI format
- ▶ crest uses Z3 as SMT solver
- ▶ crest implements various confluence criteria based on (parallel) critical pairs



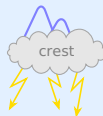
- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <https://jonas.schoepf.me/crest>
- ▶ crest accepts input problems in (more liberal) ARI format
- ▶ crest uses Z3 as SMT solver
- ▶ crest implements various confluence criteria based on (parallel) critical pairs
- ▶ crest implements simple non-confluence tests



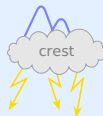
- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <https://jonas.schoepf.me/crest>
- ▶ crest accepts input problems in (more liberal) ARI format
- ▶ crest uses Z3 as SMT solver
- ▶ crest implements various confluence criteria based on (parallel) critical pairs
- ▶ crest implements simple non-confluence tests
- ▶ a constrained version of redundant rules



- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <https://jonas.schoepf.me/crest>
- ▶ crest accepts input problems in (more liberal) ARI format
- ▶ crest uses Z3 as SMT solver
- ▶ crest implements various confluence criteria based on (parallel) critical pairs
- ▶ crest implements simple non-confluence tests
- ▶ a constrained version of redundant rules
- ▶ transformations based on merging rules and splitting critical pairs



- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <https://jonas.schoepf.me/crest>
- ▶ crest accepts input problems in (more liberal) ARI format
- ▶ crest uses Z3 as SMT solver
- ▶ crest implements various confluence criteria based on (parallel) critical pairs
- ▶ crest implements simple non-confluence tests
- ▶ a constrained version of redundant rules
- ▶ transformations based on merging rules and splitting critical pairs



CoCo 2026 Categories

LCTRS