



crest 1.0

Jonas Schöpf Aart Middeldorp

University of Innsbruck



- Constrained REwriting Software Tool

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

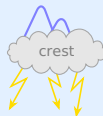
- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source

- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <http://cl-informatik.uibk.ac.at/software/crest/>

- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <http://cl-informatik.uibk.ac.at/software/crest/>
- ▶ crest accepts input problems in (more liberal) ARI format

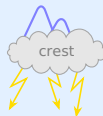
- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <http://cl-informatik.uibk.ac.at/software/crest/>
- ▶ crest accepts input problems in (more liberal) ARI format
- ▶ crest uses Z3 as SMT solver

- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <http://cl-informatik.uibk.ac.at/software/crest/>
- ▶ crest accepts input problems in (more liberal) ARI format
- ▶ crest uses Z3 as SMT solver



crest

- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <http://cl-informatik.uibk.ac.at/software/crest/>
- ▶ crest accepts input problems in (more liberal) ARI format
- ▶ crest uses Z3 as SMT solver



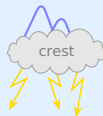
new in 2025

- ▶ merging constrained rewrite rules

TACAS 2025

crest

- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <http://cl-informatik.uibk.ac.at/software/crest/>
- ▶ crest accepts input problems in (more liberal) ARI format
- ▶ crest uses Z3 as SMT solver



new in 2025

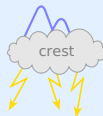
- ▶ merging constrained rewrite rules
- ▶ redundant rules

TACAS 2025

IWC 2025

crest

- ▶ Constrained REwriting Software Tool
- ▶ confluence and termination analysis of logically constrained rewrite systems
- ▶ open source
- ▶ <http://cl-informatik.uibk.ac.at/software/crest/>
- ▶ crest accepts input problems in (more liberal) ARI format
- ▶ crest uses Z3 as SMT solver



new in 2025

- | | |
|--|------------|
| ▶ merging constrained rewrite rules | TACAS 2025 |
| ▶ redundant rules | IWC 2025 |
| ▶ splitting constrained critical pairs | TACAS 2025 |