



CoCo 2022 Participant: **FORT-h** 2.0

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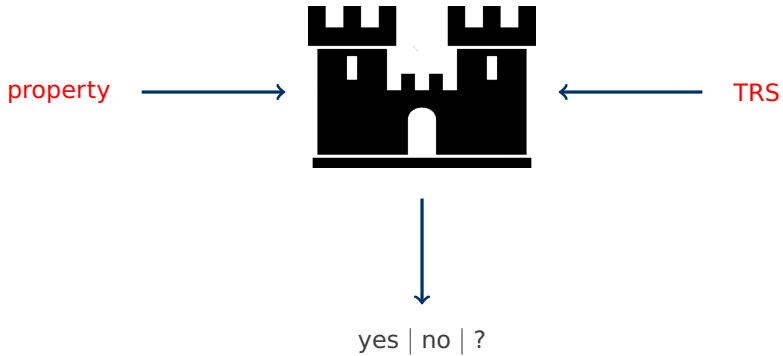
Aart Middeldorp

University of Innsbruck

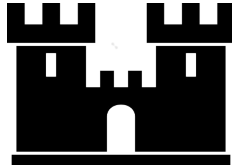
FORT-h



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property



linear variable-separated



TRS

$$\forall s \exists t (s \rightarrow^* t \wedge \neg \exists u (t \rightarrow u)) \\ \Rightarrow \exists v (s \twoheadrightarrow v \vee v \xrightarrow{\epsilon} t)$$



yes | no | ?

property is arbitrary formula in first-order theory of rewriting

CoCo 2021 Categories (FORT-h)

GCR

NFP

UNC

UNR

COM

CoCo 2021 Categories (FORT-h)

GCR

NFP

UNC

UNR

COM

most YES results

CoCo 2022 Categories (FORT-h)

GCR

NFP

UNC

UNR

COM

CPF-TRS (with FORTify)

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CPF-TRS (with FORTify)

Differences 2021 and 2022

- optimized signature extension results (IWC 2022)

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CPF-TRS (with FORTify)

Differences 2021 and 2022

- optimized signature extension results (IWC 2022)
- more expressive input language

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Differences 2021 and 2022

- optimized signature extension results (IWC 2022)
- more expressive input language

`https://fortissimo.uibk.ac.at/fort\(ify\)/`