

CO3

a **CO**nverter for proving **CO**nfluence of **CO**nditional TRSs

Naoki Nishida, Yuta Tsuruta, and Yoshiaki Kanazawa

Nagoya University, Japan

Overview

CO3 proves confluence of 3-DCTRSs using the improved sequential unraveling \mathbb{U}_{conf} [Gmeiner et al, 13].

Confluence Criterion [Gmeiner et al, 13]

A weakly-left-linear 3-DCTRS \mathcal{R} is confluent if $\mathbb{U}_{conf}(\mathcal{R})$ is confluent.

Remark

- Very simple criteria for confluence and termination of TRSs
- Ver. 1.5 does **not** use the simultaneous unraveling \mathbb{U}_{sim} [Marchiori, 96] for normal 1-CTRSs [Nishida et al, IWC 2018]