

CeTA-Prover 1.0

- new feature in CeTA: certify confluence and commutation by **Okui's criterion**
- **limited tool support**: CSI implements Okui's criterion, but
 - only for confluence
 - with a restricted search engine for joins ($s \multimap \cdot \leftarrow t$ instead of $s \multimap \cdot \leftarrow^* t$)
- consequence: develop **CeTA-Prover**; design:
 - use **verified algorithms of CeTA** (sim-crit-pairs, rewrite, mstep, tcap, ...)
 - and **unverified** breadth-first **search** for rewrite sequences: $s \rightarrow^* t$?
- participation
 - CR and COM: semi-decision proc. for criteria of Okui (SCPs) and Toyama (PCPs)
 - INF: reconstruct rewrite sequences in feasibility proofs of *nonreach*
- availability

<https://isafor-ceta.uibk.ac.at/ceta-prover.php>