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@INPROCEEDINGS{6637512, author={Rocha, C.}, booktitle={Computing Colombian Conference (8CCC), 2013 8th}, title={Automatic proof-search heuristics in the Maude invariant analyzer tool}, year={2013}, pages={1-6}, isbn={978-1-4799-1054-0},
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abstract={The Invariant Analyzer Tool is an interactive tool that mechanizes an inference system for proving safety properties of concurrent systems, which may be infinite-state or whose set of initial states may be infinite. This paper presents the automatic proof-search heuristics at the core of the Maude Invariant Analyzer Tool, which provide a substantial degree of automation and can automatically discharge many proof obligations without user intervention. These heuristics can take advantage of equationally defined equality predicates and include rewriting, narrowing, and SMT-based proof-search techniques.},

keywords={computability;concurrency control;human computer interaction;inference mechanisms;interactive systems;program verification;rewriting systems;theorem proving;Maude invariant analyzer tool;SMT-based proof-search techniques;automatic proof-search heuristics;concurrent systems;inference system;infinite state;interactive tool;narrowing technique;rewriting technique;safety properties;satisfiability modulo theories;Algebra;Cognition;Discharges (electric);Equations;Mathematical model;Object oriented modeling;Safety;Maude Invariant Analyzer;Software engineering;human-computer interaction;narrowing;proof-search heuristics;rewriting;rewriting logic;satisfiability modulo theories (SMT)},

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