

# Accepted Manuscript

Verification of linear hybrid systems with large discrete state spaces using counterexample-guided abstraction refinement

Ernst Althaus, Björn Beber, Werner Damm, Stefan Disch, Willem Hagemann et al.

PII: S0167-6423(17)30085-0  
DOI: <http://dx.doi.org/10.1016/j.scico.2017.04.010>  
Reference: SCICO 2093

To appear in: *Science of Computer Programming*

Received date: 28 May 2016  
Revised date: 20 January 2017  
Accepted date: 27 April 2017

Please cite this article in press as: E. Althaus et al., Verification of linear hybrid systems with large discrete state spaces using counterexample-guided abstraction refinement, *Sci. Comput. Program.* (2017), <http://dx.doi.org/10.1016/j.scico.2017.04.010>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## Highlights

- A counterexample guided abstraction refinement approach for linear hybrid automata with large discrete state space is proposed.
- The approach relies on abstraction algorithms replacing the original state set by state sets of simpler shape.
- We provide benchmark results showing the relative merits of the approach.

Download English Version:

<https://daneshyari.com/en/article/4951774>

Download Persian Version:

<https://daneshyari.com/article/4951774>

[Daneshyari.com](https://daneshyari.com)