# Compatibility of Refining and Controlling Plant Automata with Bisimulation Quotients 

Roland Glück ${ }^{1}$<br>${ }^{1}$ Center for Lightweight Production Technology<br>German Aerospace Center

20th International Conference on Relational and Algebraic
Methods Computer Science
Augsburg, April 3rd, 2023


## Outline

Models
Previous Work

Our Results/Contribution
Main Results
Basic Ideas for Proofs/Implementation

## Definition

## Definition

A model is a tuple $M=(V, E, g, a)$ such that

- $(V, E)$ is a directed graph,
$\rightarrow g: E \rightarrow 2^{\Sigma}$


## Make Titles Informative.

You can create overlays...

- using the pause command:
- First item.
- using overlay specifications:
- using the general uncover command:


## Make Titles Informative.

You can create overlays...

- using the pause command:
- First item.
- Second item.
- using overlay specifications:
- using the general uncover command:


## Make Titles Informative.

You can create overlays...

- using the pause command:
- First item.
- Second item.
- using overlay specifications:
- First item.
- using the general uncover command:
- First item.
$>$ Second item.


## Make Titles Informative.

You can create overlays...

- using the pause command:
- First item.
- Second item.
- using overlay specifications:
- First item.
- Second item.
- using the general uncover command:


## Make Titles Informative.

You can create overlays...

- using the pause command:
- First item.
- Second item.
- using overlay specifications:
- First item.
- Second item.
- using the general uncover command:
- First item.


## Make Titles Informative.

You can create overlays...

- using the pause command:
- First item.
- Second item.
- using overlay specifications:
- First item.
- Second item.
- using the general uncover command:
- First item.
- Second item.

Make Titles Informative.

Make Titles Informative.

Make Titles Informative.

Make Titles Informative.

Make Titles Informative.

Make Titles Informative.

Make Titles Informative.

Make Titles Informative.

## Summary

- The first main message of your talk in one or two lines.
- The second main message of your talk in one or two lines.
- Perhaps a third message, but not more than that.
- Outlook
- Something you haven't solved.
- Something else you haven't solved.


## For Further Reading I

© A. Author.
Handbook of Everything.
Some Press, 1990.
囯 S. Someone.
On this and that.
Journal of This and That, 2(1):50-100, 2000.

