Computer Aided Verification of Automata
The CAVA Project

Alexander Schimpf

Short presentation, 02/07/2012
Joint project with *Technische Universität München*

- DFG funded

- René Neumann + Thomas Türk

- Finite automata
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- Finite automata
Büchi-automata

Translation of Logic into Automata (Model Checking)
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Isabelle/HOL
- Theorem prover
- Abstract formalisations
  - Correctness
- Executable implementations
  - Refinement
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Abstract formalisations
  - Correctness

Executable implementations
  - Refinement
We need you!

- Open position for a HIWI
- Interests
  - Functional programming languages
  - Logic
  - Automata

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