

# Final Presentation

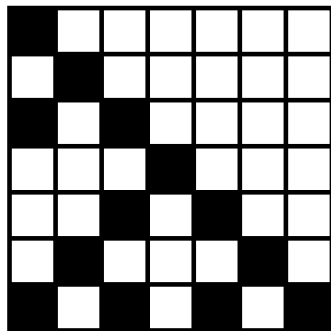
Marcus Völker

Inoue Laboratory, National Institute of Informatics

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- Time: 6 months (2013/10/02 - 2014/03/29)
- Papers co-authored: 2
  - Logic Programming for Cellular Automata (Marcus Völker, Katsumi Inoue)
  - Decision Change Costs in Dynamic MO-DCOP (Maxime Clement, Marcus Völker, Tenda Okimoto, Katsumi Inoue)
- Trips across Japan: 3
  - Wakayama University (2013/12/26-28)
  - Kobe University (2014/02/27-28)
  - CSPSAT2, Iheya Island (2014/03/13-16)

# Logic Programming for Cellular Automata

$$\begin{aligned} p(0) &\leftarrow p(s(0)) \\ p(s(X)) &\leftarrow p(X) \wedge \neg p(s(s(X))) \\ p(s(X)) &\leftarrow \neg p(X) \wedge p(s(x(X))) \end{aligned}$$




(Marcus Völker, Maxime Clement, Tony Ribeiro, Maxime Wack,  
Tenda Okimoto, Katsumi Inoue)

MOMO - **MO**dular **MO**-DCOP Framework

UME - **U**nified **MOMO** Front**E**nd

# Features

- Multithreaded for Distributed COPs
  - C++ & Qt for speed and efficiency
  - Algorithm testing and benchmarking
  - Design Goals:
    - Easy implementation of new algorithms
    - Wide variety of benchmarking options
- ⇒ Less work for the researcher

Livedemo...

Thank you!