

# Adaptive Reactive Synthesis

# **Specification Inference**

## Verification

Ensure controller satisfies the goal'

# Trustworthy Al

# Towards trustworthy decision making leveraging Formal Methods and RL

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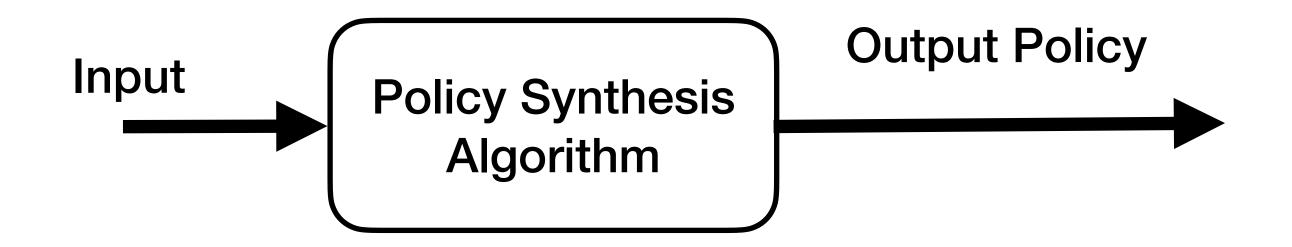
Specification Inference + RL

Verification

Ensure controller satisfies the goal'

Adaptive Reactive Synthesis

# Shielding



- 1. M. Alshiekh, R. Bloem, R. Ehlers, B. Könighofer, S. Niekum, and U. Topcu (AAAI'18): Safe reinforcement learning via shielding
- 2. B. Könighofer, J. Rudolf, A. Palmisano, M. Tappler, and R. Bloem (ISSE'23): Online shielding for reinforcement learning