Shielding

Policy Synthesis Algorithm



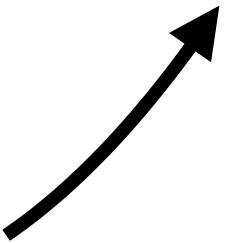
Input



Output Policy







Wille O







Modified Output Policy

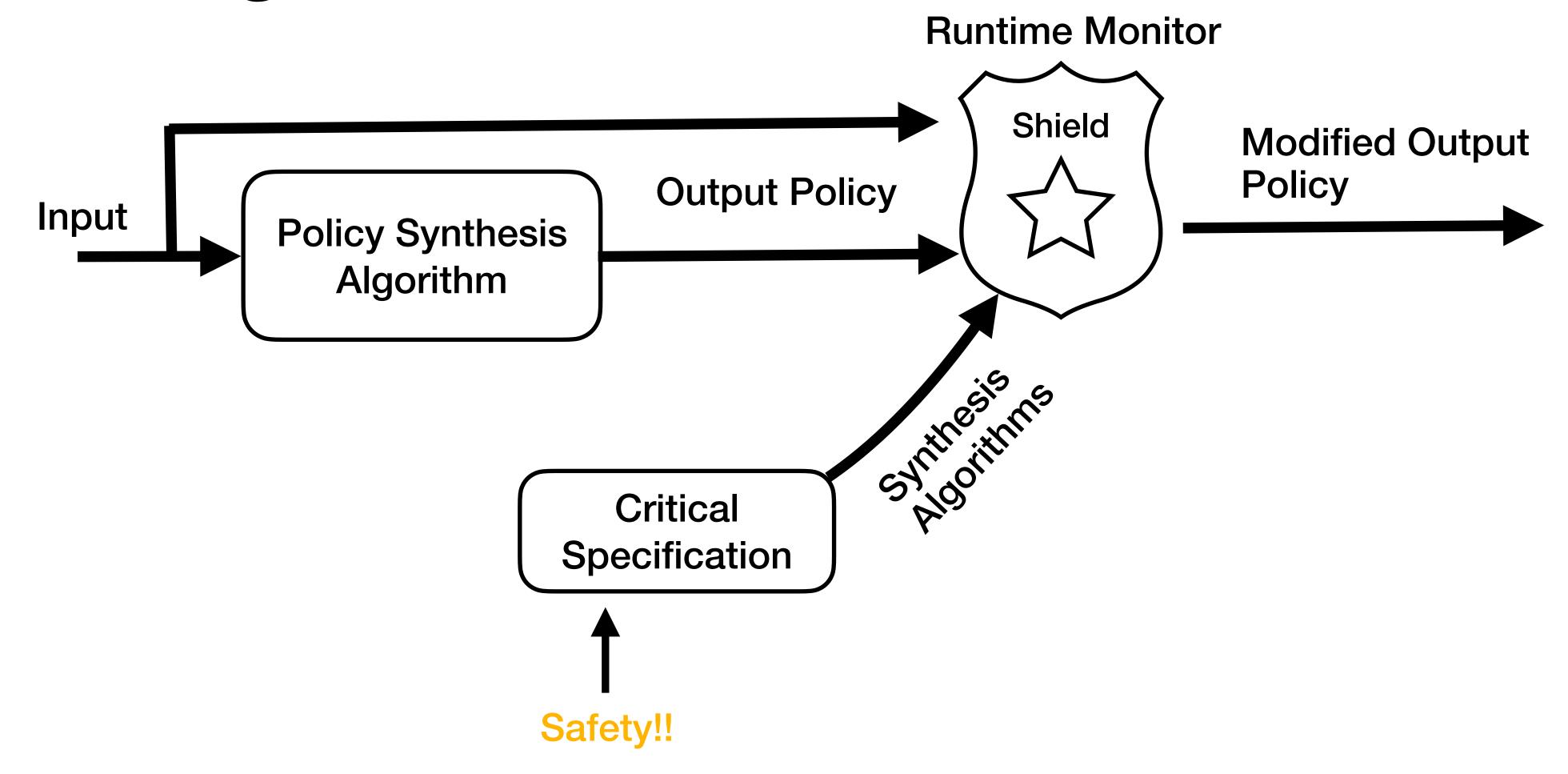




M. Alshiekh, R. Bloem, R. Ehlers, B. Könighofer, S. Niekum, and U. Topcu (AAAI'18): Safe reinforcement learning via shielding B. Könighofer, J. Rudolf, A. Palmisano, M. Tappler, and R. Bloem (ISSE'23): Online shielding for reinforcement learning

Runtime Monitor

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

ω -Regular Shielding

