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Utility-Function Policies

An objective function that expresses the value of each possible state

- Generalized goal policies
 Instead of performing a binary classification into desirable versus undesirable states, they ascribe a real-valued scalar desirability to accelent the states.
- each state
 Because the most desired state is not specified in advance, it is computed on a recurrent basis by selecting the state that has the highest utility from the present collection of feasible states
- Provide more fine-grained and flexible specification of behavior than goal and action policies
 - Allow for unambiguous, rational decision making by specifying the appropriate tradeoff
- Preferences are difficult to elicit and specify

Kephart & Walsh; An Al Perspective on AC Policies, 5th IEEE Internation Norkshop on Policies for Distributed Systems and Networks (Policy 200























- Lower levels typically use action policies
- For higher levels, goal or utility-function policies are more appropriate

· Unified framework is needed to support multiple policy types within a single autonomic component













