Utility algorithms

Production Utility

Wed, 10/07/2009 - 12:30 — terry

Setting the utility of a production

By default, all productions start with a utility of 0. If you want to set this utility manually, rather than using a learning rule, you can do it like this:

```
def attendProbe(goal='state:start',vision='busy:False',location='?x ?y',utility=0.3):
```

Utility Learning Rules

The following learning rules exist for Python ACT-R

- PMPGC: the old PG-C learning rule

```
pm=PMPGC(goal=20)
```

- PMPGCSuccessWeighted: the success-weighted PG-C rule

```
pm=PMPGCSuccessWeighted(goal=20)
```

- PMPGCMixedWeighted: the mixed-weighted PG-C rule

```
pm=PMPGCMixedWeighted(goal=20)
```

- PMQLearn: standard Q-learning

```
pm=PMQLearn(alpha=0.2,gamma=0.9,initial=0)
```

- PMTD: TD-Learning (Fu & Anderson, 2004)

```
pm=PMQLearn(alpha=0.1,discount=1,cost=0.05)
```

- PMNew: the new ACT-R 6 standard learning rule

```
pm=PMNew(alpha=0.2)
```

Comments

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