E1= Believe in Exp1 initial analogy P[E1(0)]

Under E1, the success rate of the Action A is = 95%

E2= Believe in Exp2 initial analogy P[E2(0))

Under E2, the success rate of the Action A is = 65%

A=Observed action success rate, to be collected during the iterations

Smoothing of the observed success rate using NLP: https://en.wikipedia.org/wiki/Additive\_smoothing

1st iteration

Given observed action success rate as

The believe of the Exp1 is updated as

New believes

The believe of the Exp2 is updated as

New believes

2nd iteration

Given observed action success rate as

The believe of the Exp1 is updated as

New believes

The believe of the Exp2 is updated as

New believes

Ith iteration

Given observed action success rate as

The believe of the Exp1 is updated as

New believes

The believe of the Exp2 is updated as

New believes