

Week 2

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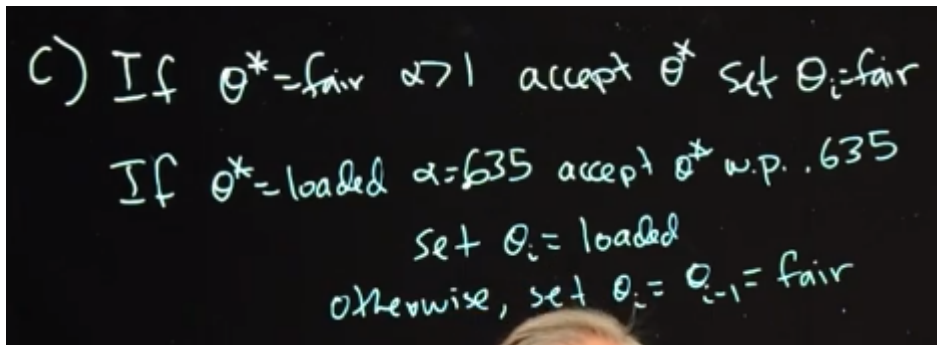
MH

Lesson 4 Demonstration Video



Matt Hopkins Week 2 · 3 months ago

I'm confused about one point in Professor Lee's video. In the acceptance criteria he wrote the following:



I understand the first two conditions, but why is the otherwise outcome fair? From the rules in Lesson 4 part 1, it Matt Heiner states that in that case

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Jay Mentor · 3 months ago · Edited



We have:

Case 1: $\theta^* = \text{fair}$. Then $\alpha > 1$, so we accept θ^* with probability 1 (ie, always).

Case 2: $\theta^* = \text{loaded}$. Then $\alpha = .635$, so we accept θ^* with probability .635, and reject θ^* with probability .365. Rejecting θ^* means setting θ_i to θ_{i-1} . But if $\theta^* = \text{loaded}$, then $\theta_{i-1} = \text{fair}$, because our proposal distribution in this example says to always propose whatever state we are not currently in.

Does that answer your question?

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MH Matt Hopkins · 3 months ago



Thank you Jay. I was over-complicating it in my mind. It's very clear now.

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