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11. Exercise: Comparison for the coin problem

Exercises due Apr 15, 2020 05:29 IST Completed

Exercise: Comparison for the coin problem

1/1 point (graded)

Recall that the MAP estimator for the problem of estimating the bias of a coin is X/n, which is different from the LLMS estimator (X+1)/(n+2). How do they compare in terms of mean squared error (MSE)?

MAP has a smaller MSE.
LLMS has a smaller MSE.
They have the same MSE.
✓

Solution:

The LLMS estimator coincides with the LMS estimator and therefore achieves the smallest possible mean squared error.

Submit

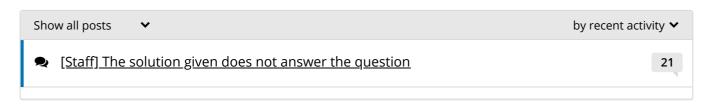
You have used 1 of 1 attempt

1 Answers are displayed within the problem

Discussion

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Topic: Unit 7: Bayesian inference:Lec. 17: Linear least mean squares (LLMS) estimation / 11. Exercise: Comparison for the coin problem



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