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

ℹ Answers are displayed within the problem

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[Staff] The solution given does not answer the question 21