▽ ¡Felicitaciones! ¡Aprobaste!

Calificación recibida 100 % Para Aprobar 80 % o más

Ir al siguiente elemento

Lesson 2: Practice Quiz

Puntos totales 5

1. The method of maximum likelihood gives the same parameter estimates as the method of least squares for any measurement noise distribution.

1/1 punto

- O True
- False

Correct! The noise must be from the Gaussian family.

2. The product of several Gaussian PDFs with identical variances is also Gaussian.

1/1 punto

- True
- O False
- ✓ Correcto

Correct! We used this fact to derive the connection between maximum likelihood and least squares.

3. The least squares criterion is robust to outliers.

1/1 punto

- O True
- False
- ✓ Correcto

Correct! Least squares is particularly sensitive to outliers due to the use of squared errors!

4. For a scalar Gaussian random variable, what is the form of the full log likelihood function?

1/1 punto

- $\bigcirc -\frac{1}{2}\log(2\pi) + \frac{1}{2}\log(\sigma) \frac{1}{2\sigma^2}(x-\mu)^2$
- **⊘** Correcto

Correct!

5. True or False, $\operatorname{argmin}_x f(x) = \operatorname{argmax}_x f(-x)$.

1/1 punto

- O True
- False
- Correcto

 $\text{Correct! argmin }_x f(x) = \operatorname{argmax}_x \, - f(x).$