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SVD and rank-1 approximation

1分

A matrix A has the Singular Value Decomposition

with $\sigma_1 \geq \sigma_2 \geq \cdots \sigma_n \geq 0$.

What is the matrix B that has rank 1 and minimizes $||A - B||_2$?

选项*

$$\bigcirc B = u_1 v_1^T$$

$$\bigcirc B = \sigma_1 v_1 u_1^T$$

$$\bigcirc B = \sigma_1 u_1 v_1^T$$

$$\bigcirc B = v_1 u_1^T$$

保存回答

提交最终回答