

Software Assignment

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TABLE 0: SVD Error Metrics for the Grayscale Image Matrix

k	Operator Error (σ_{k+1})	Frobenius Error ($\ A - A_k\ _F$)	Relative Frobenius Error (%)	Energy Retained (%)
5	24.708939	173.728769	94.8589	10.0180
50	16.487956	107.493636	58.6933	65.5509
100	9.856142	52.511317	28.6721	91.7791