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Vehicle Verification Between Two Nonoverlapped Views Using Sparse Representation

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Highlights

- The proposed system can be applied to vehicle verification under non-overlapped views of which the shapes and illuminations of vehicles are different.
- Propose a novel sparse dictionary learning approach, Boost K-SVD, for vehicle verification.
- The generated dictionary provides good RIP and sparser representation for samples.
- The better dictionary, the better pair verification can be promised.
- An adaptive dictionary size estimation is proposed to estimate optimal sizes for different datasets.

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