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Learning Principal Orientations and Residual Descriptor for Action Recognition

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Highlights

- We exploit the distribution information of principal orientations of dataset by learning the projection matrix with trajectories on both spatial and temporal domains for extracting features informatively.
- We exploit the residual information of projected features in the projection subspace by maximizing the residual value of features from principal orientations.
- We consider the correlation between RGB channel and depth channel for RGB-D based action recognition and jointly learn the projection matrices on corresponding channels.

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