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Multi-view clustering algorithm based on subspace fusion. (Chinese. English summary)

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Summary: A novel algorithm of multi-view subspace clustering was proposed, which no longer fused the features of original data containing various noises and redundant information. Instead, the low-dimensional subspace representation of different views was fused and a common low-dimensional subspace representation was obtained. Then the subspace representation as a similarity matrix for spectral clustering was used to obtain a better clustering effect. Experimental results on three widely used multi-view benchmark data sets showed the effectiveness of the proposed algorithm.

MSC:

68T10 Pattern recognition, speech recognition
68T45 Machine vision and scene understanding

Keywords:

multi-view learning; subspace clustering; subspace fusion; low-dimensional subspace; spectral clustering

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