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An Adaptive Graph Learning Method based on Dual Data Representations for Clustering

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**Highlights**

- Showing that combining original data with a proper nonlinear embedding could be a better basis for adaptive graph learning.
- Development of dual representations, i.e., the original data and a nonlinear embedding obtained by an Extreme Learning Machine-based neural network.
- Proposing a novel adaptive graph learning method for clustering based on the dual representation.
- Extensive experiments on both synthetic and real-world benchmark datasets verified the effectiveness of the proposed method.

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