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Two-Class Support Vector Machine with New Kernel Function Based on Paths of Features for Predicting Chemical Activity

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**Highlights**

- This paper proposed a new algorithm based on kernel functions to predict activity of molecule.
- The proposed kernel functions used the paths of stars as vector of features.
- Reduction technique is proposed based on the relationship between features.
- The proposed algorithm was tested on two datasets and competitive results were obtained in accuracy and complexity.

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