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Improving performance of classification on incomplete data using feature selection and clustering

Cao Truong Tran, Mengjie Zhang, Peter Andreae, Bing Xue, Lam Thu Bui

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*Highlights (for review)

Highlights

- We propose the combination of imputation and clustering which can crucially reduce the computation time, and can achieve comparable accuracy to using only imputation. The key reason is that the ustering can produce a smaller set of representative training dua to perform imputation in the application process.
- We propose the combination of imputation and 'eature 'election which also can remarkably reduce the computation time, and can achieve better accuracy than using only imputation. The underlying reason is that feature selection can generate better and smaller raining data, and reduce the number of incomplete instances in the testing process.
- We investigate the combination of imputation feature selection and clustering which not only can further spectup imputation, but also can improve classification accuracy, simultaneously.

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