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Conditional classifiers and boosted conditional Gaussian mixture model for novelty detection

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Highlights

- A new novelty detection classifier is proposed
- The proposed method is capable of considering the dependencies of relevant random variables
- No simplifying assumption is made for encoding such dependencies
- Combining additive modeling and boosting method to learn conditional densities
- 12% to 24% false positive reduction compared to one-class SVM and two other methods

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