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Product Functional Information Based Automatic Patent Classification: Method and Experimental Studies

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Highlights

- This paper studied the automatic mining and classification of the functional information from the patent texts to support the product innovation design.
- The classification on the primary level functional groups has been carried out and the classifier with the best classification accuracy has been built through a couple of experiments.
- In overall, all three experiments obtained decent accurate classification results so it proved that the whole experiment design is an efficient attempt to extract the hidden patent information and classify them automatically.
- We can further study the experiment results and put forward some suggestions on the automatic patent text classification process.

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