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Banknote Recognition based on Optimization of Discriminative Regions by Genetic Algorithm with One-dimensional Visible-Light Line Sensor

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**Highlights**

- Using similarity map, we build a selection priority map of sub-sampled banknote image
- We optimize masks by using genetic algorithm (GA) based on selection priority map
- Our method considers both distinguishability and optimality of selected image region
- Our method show the high recognition accuracy with 4 banknote databases

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