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Virus image classification using multi-scale completed local binary pattern features extracted from filtered images by multi-scale principal component analysis

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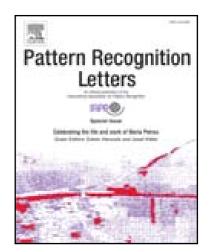
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## Research Highlights (Required)

To create your highlights, please type the highlights against each \item command.

It should be short collection of bullet points that convey the core findings of the article. It should include 3 to 5 bullet points (maximum 85 characters, including spaces, per bullet point.)

- Multi-scale PCA framework is proposed for filtering the virus images.
- A multi-scale CLBP descriptor is developed to extract the features.
- Images are classified by the SVM with polynomial kernel and the MPMC features.
- Experiments show that the proposed method is better than the conventional methods.

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