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Unsupervised Image Segmentation via Stacked Denoising Auto-encoder and Hierarchical Patch Indexing

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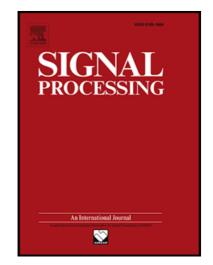
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Highlights

- This work proposes a method of image segmentation based on auto-encoders and hierarchical clustering algorithm.
- They divide sample images into non-overlapped patches and extract deep-level feature representations from the patches using Stacked Denoising Auto-encoder.
- They perform unsupervised and hierarchical K-means clustering on these feature representations and build an indexing tree structure.

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