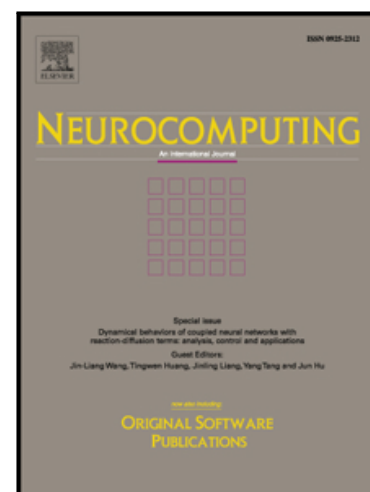


## Accepted Manuscript

Retinal vessel segmentation of color fundus images using multiscale convolutional neural network with an improved cross-entropy loss function

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**Highlights**

- We propose a novel retinal vessel segmentation method of fundus images.
- The method is combined with CNN and fully CRFs.
- We develop a multiscale CNN with an improved cross-entropy loss function.
- We evaluate the effectiveness of the proposed method on DRIVE and STARE datasets.
- The results of our method are competitive in the sensitivity while ensuring accuracy.

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