

# Accepted Manuscript

Image Segmentation by Correlation Adaptive Weighted Regression

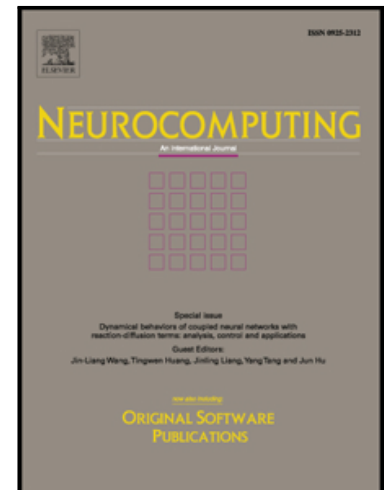
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## Highlights

- We formulate the subspace representation as a Correlation Adaptive Weighted Regression (CAWR) problem, in which an explicit data-correlation-adaptive penalty on the representation coefficients is proposed by combining the weighted  $l_1$ -norm and  $l_2$ -norm. It can be regarded as an interpolation of  $l_1$ -norm and  $l_2$ -norm.
- We prove that the proposed model has grouping ability for highly correlated data. We indicate it also has subspace selection ability for uncorrelated data.
- We apply CAWR to image segmentation. Experimental results on image segmentation show that the proposed model is better than the previous models in natural image segmentation.

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