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Semantic invariant cross-domain image generation with generative adversarial networks

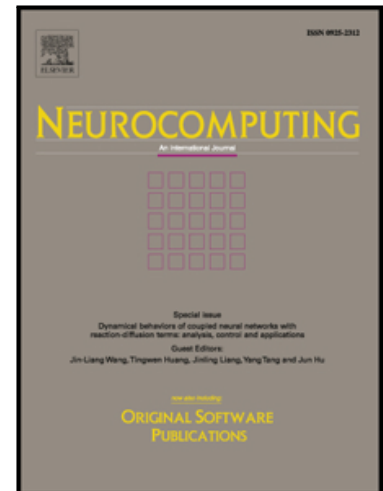
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Highlights

- We found traditional image-to-image translation methods failed to maintain the semantics of an image after the transfer procedure.
- Generative Adversarial Network was used for unpaired image-to-image translation in our work.
- Our model controls the hierarchical semantics of images by constructing label and attention consistent losses.
- We adopted Wasserstein loss for improving the quality of generated images.
- The algorithm can improve the classification performance in unsupervised domain adaptation problem.

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