Manuscript NEPL-D-19-00662 for review

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on behalf of
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Thu 5/03/2020 3:46 PM

To: Zhen Wang <zwan4121@uni.sydney.edu.au>

Dear Mr wang,

In view of your expertise I would be very grateful if you could review the following manuscript which has been submitted to Neural Processing Letters.

Manuscript Number: NEPL-D-19-00662

Title: Alternate Adversarial Transfer Learning: An Adversarial Training Method Based on Feature Recalibration for One-Shot Face Recognition

Abstract: Supervised deep learning, the most popular machine learning method nowadays, relies on a large amount of labeled data. Collecting and tagging data, however, is laborious and time consuming. Fully utilizing few labeled data to get a generalized model has become a valuable topic. Face recognition using single sample per person (SSPP) is a representative problem. Previously proposed domain adaptation via adversarial transfer learning has proved efficient. However, the confrontation mechanism via optimizing an adversarial loss function strongly relies sufficient training steps to get an adequate adversarial training process, which will cause the extracted featured to be highly linearly inseparable when lacking data. In order to solve this problem, this paper presents a new adversarial training method named alternate adversarial transfer learning (AATL). AATL alternately trains the convolution layers and the channel-weighting blocks with different training batch sizes.
Feature recalibration performed by the channel-weighting blocks could help the feature extractor extract domain-independent and well clustered features. In the experiment, AATL has achieved a recognition accuracy of 84.62% on the SSPP face recognition dataset WSC-Face.

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We hope you are willing to review the manuscript. If so, would you be so kind as to return your review to us within
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Thank you very much.

With kind regards,

Dacheng Tao, PhD
Neural Processing Letters

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Wed 11/03/2020 12:19 PM

To: Zhen Wang <zwan4121@uni.sydney.edu.au>

Dear Mr wang,

Thank you very much for your review of manuscript
NEPL-D-19-00662, "Alternate Adversarial Transfer Learning: An Adversarial Training Method Based on Feature Recalibration for One-Shot Face Recognition".

We greatly appreciate your assistance.

With kind regards,
Journals Editorial Office
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