

IET Image Processing - Decision on Manuscript ID IPR-2022-08-0482 [email ref: DL-SW-3-a]

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时间: 2023年3月17日(星期五) 下午5:07

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17-Mar-2023

Dear Dr. Dan Zeng:

Manuscript ID IPR-2022-08-0482 entitled "Cascaded Face Super-Resolution with Shape and Identity Priors" which you submitted to IET Image Processing, has been reviewed. Some revisions to your manuscript have been recommended. The

Editor-in-Chief Comments

Deadlines:

Because we are trying to facilitate timely publication of manuscripts submitted to IET Image Processing, your revised manuscript should be uploaded as soon as possible. If it is **Apr-2023**, we may have to consider your paper as a new submission. If you feel that you will be unable to submit your revision within the time allowed please contact me to discuss

Before submitting your revisions:

1. Prepare a response to the reviewer comments appended below in point-by-point fashion in PDF format. In order to expedite the processing of the revised manuscript, please be as specific as possible in your response and indicate the page numbers in IET Image Processing.
2. Prepare a revised manuscript in an editable format (not PDF), highlighting the changes you've made. Save this new document on your computer as you will be asked to upload it.
3. In addition to your revised manuscript with changes highlighted, please also save a "clean" copy where the changes are not marked.
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2. Follow the on-screen instructions. First you will be asked to provide your "Response to Decision Letter"—this is the response to reviewer comments that you prepared earlier.
3. Click through the next few screens to verify that all previously provided information is correct.
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6. Review and submit: please be sure to double-check everything carefully so that your manuscript can be processed as quickly as possible.
7. Please note that including any specific references suggested by the reviewers is not mandatory and should only be followed if it is considered appropriate by the authors.

Once again, thank you for submitting your manuscript to IET Image Processing and I look forward to receiving your revision.

Sincerely,

Prof. Farzin Deravi
Editor in Chief, IET Image Processing
F.Deravi@kent.ac.uk

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Associate Editor Comments to Author:

(There are no comments.)

Reviewer(s)' Comments to Author:

Reviewer: 1

Comments to the Author

- Add more recent studies.
- comparison with SOTA techniques.
- suggested to test on more datasets.
- proof reading of the entire manuscript

Reviewer: 2

Comments to the Author

This paper proposes a cascaded super-resolution network (CSRNet) to utilize shape and identity priors jointly and progressively. Specifically, the authors design a cascaded structure to transform the LR face to HR face. **1. Although the authors mention that they are the first to explore multiple priors for face super-resolution. The novelty of this paper is limited. The proposed network seems to be the addition of the cascaded structure, shape priors (i.e. residual information), and identity priors. Identity priors based module are very common for face super-resolution.**

2. To clarify the overall structure, the formulas in this section should be detailed and coherent. The authors only give the related loss function.

3. Why are the methods used for qualitative comparison and quantitative comparison inconsistent?

4. The ablation study of the balance between **performance and model size** should be added.

5. For the performance of GAN-like model for realistic image, the authors should provide more metrics like LPIPS to verify the effectiveness of their method.

6. The methods for comparison seem to be out-of-date. The authors should compare their method with more recent methods for face super-resolution like [1]

[2] and other GAN-based networks such as DCGAN. In addition, **the SR methods for natural images should also be considered.**

[1] Jiaxu Leng and Ye Wang. "RCNet: Recurrent Collaboration Network Guided by Facial Priors for Face Super-Resolution", in Proc. ICME, 2022, pp.1-6, doi: 10.1109/ICME52920.2022.9859616.

[2] Shuang Liu, Chengyi Xiong, Xiaodi Shi, and Zhirong Gao. "Progressive face super-resolution with cascaded recurrent convolutional network", Neurocomputing, vol. 449, pp.357-367, 2021, doi: 10.1016/j.neucom.2021.03.124.