



Correction

Correction: Facial expression recognition using lightweight deep learning modeling

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A correction on

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We have updated Figure no 1 with the original dataset images on the top left corner because before images were used from another source. Now the updated version of the figure contains images from the cited dataset.

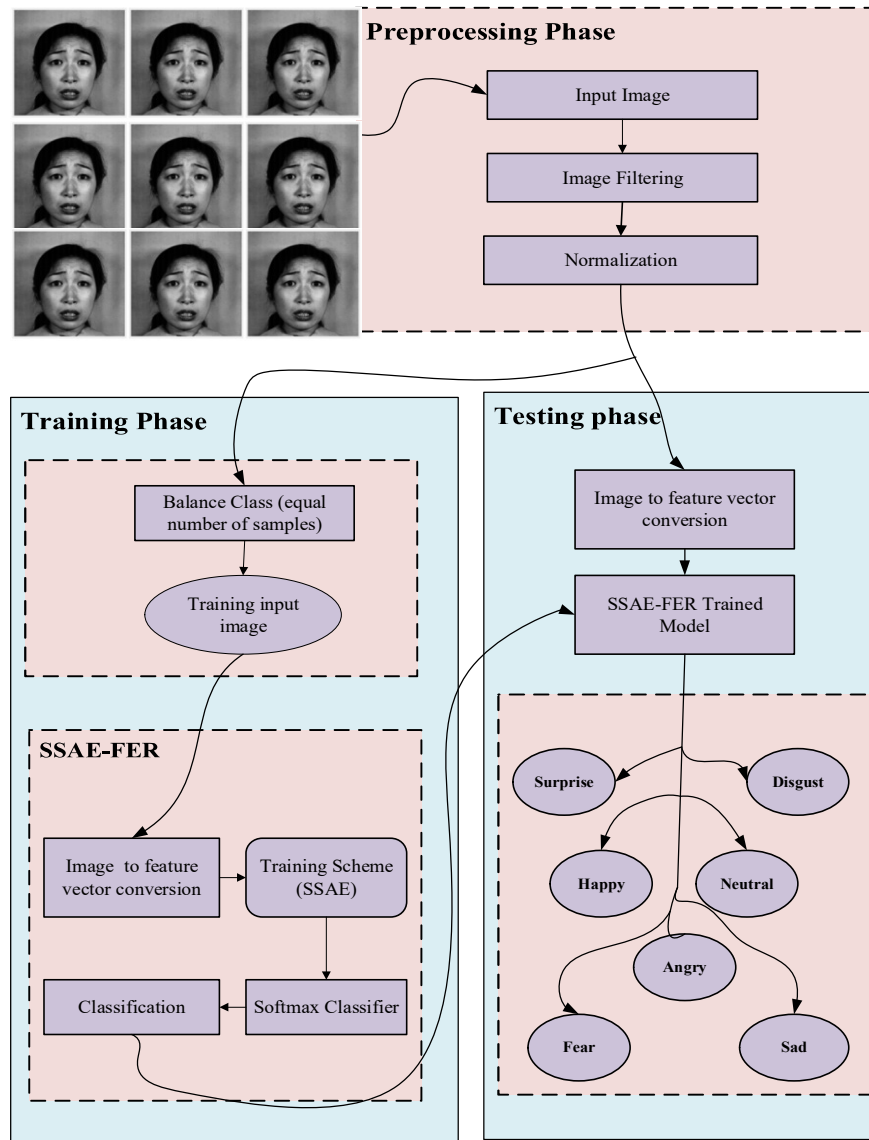


Figure 1. Block diagram of the proposed method.

We have updated Subsection 4.1, especially adding 2 references for JAFFE dataset and one reference for CK+ dataset which is the requirement of the dataset owner. We have updated a few words in the following 10 lines in Subsection 4.1 of our paper.

JAFFE [1,2] and CK+ [3] were used for the experiment on the SSAE-FER model. The JAFFE dataset contains 10 Japanese female expressions that have seven poses: happy, sad, fear, anger, surprise, neutral and disgust. Several images of each expression are available in the dataset having 256×256 pixels resolution. We used 213 2D grayscale images from the JAFFE dataset with different classes: anger containing 30 images, disgust in 29 images, fear in 33 images, happiness in 31 images, neutral in 30 images, sadness in 31 images, and 29 images containing surprise expressions. Similarly, the CK+ dataset contains 8 expressions, seven primary expressions, and contempt expressions. The dataset comprises a total of 981 images of different classes were used in our experiment: The happy class contains 207 images, sad 84 images, anger 135 images, fear 75 images, surprise 249 images, disgust 177

images, and the contempt class contains 54 images in our proposed work.

References

1. M. J. Lyons, “Excavating AI” Re-excavated: Debunking a fallacious account of the JAFFE dataset, preprint, arXiv:2107.13998.
2. M. J. Lyons, M. Kamachi, J. Gyoba, Coding facial expressions with Gabor wavelets (IVC special issue), preprint, arXiv:2009.05938.
3. T. Kanade, J. F. Cohn, Y. Tian, Comprehensive database for facial expression analysis, in *Proceedings Fourth IEEE International Conference on Automatic Face and Gesture Recognition (Cat. No. PR00580)*, (2000), 46–53. <https://doi.org/10.1109/AFGR.2000.840611>



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