Clustering Millions of Faces By Identity

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The article was written by (Otto, Wang, and Jain 2018). It was was cited 44 times according to Google Scholar. The task performed was face clustering. They used the F-measure metric over clusters with distractor images.

Hypothesis

A neuronal network face representation .

The network architecture is VGG16 proposed by (Simonyan and Zisserman 2014), however the method.

Evidence and Results

Dataset

Results

Contribution

A first contribution of this paper stems from an improvement of the clustering algorithm. The Rank-Order cluster proposed by (Zhu, Wen, and Sun 2011) has the disadvantage that it requires $O(n^2)$. The authors propose to use the FLANN library implementation of the randomized k-d tree algorithm to compute the list of nearest neighbors.

Weaknesses

Future Work

References

- Otto, C., D. Wang, and A. K. Jain (Feb. 2018). "Clustering Millions of Faces by Identity". In: *IEEE Transactions on Pattern Analysis and Machine Intelligence* 40.2, pp. 289–303. ISSN: 0162-8828. DOI: 10.1109/TPAMI.2017.2679100.
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