Review: Conformal Prediction for Automatic Face Recognition

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1 Paper Profile

- Title: Conformal Prediction for Automatic Face Recognition
- Author: Charalambos Eliades, Harris Papadopoulos
- Organisation: Computer Science and Engineering Department, Frederick University
- Publish Year: 2017
- URL: http://proceedings.mlr.press/v60/eliades17a/eliades17a.pdf

2 Prerequisites

- SIFT(Scale Invariant Feature Transformation): a method for extracting distinctive invariant features from images that can be used to perform reliable matching between different views of an object or scene. It has been introduced by Lowe(2004) [1]
- Feature Extraction from Images: good blog entry
  http://robonchu.hatenablog.com/entry/2017/08/08/220905
  https://qiita.com/icoxfog417/items/adbbf445d357c924b8fc

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4 Abstract

They have investigated the use of combination of CP with SIFT in a domain of Automatic Face Recognition(AFR). Particularly speaking, they have combined CP with two classifiers based on calculating similarities between images using *SIFT* features. Then they have examined the performance of the classifiers with the given data sets, which are ATT Faces and UFI Corpus subset.

References

[1] David G Lowe. "Distinctive image features from scale-invariant keypoints". In: *International journal of computer vision* 60.2 (2004), pp. 91–110.