Contents

Chapter 1

Artificial Intelligence

Artificial Intelligence related papers.

1.1 Face Recognition: A Literature Survey

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Pattern Recognition, Face Detection, Face Recognition, Person Identification, Algorithms

1.1.1 Overview

Discusses overall progress in face recognition research field upto 2000s. It takes into account face recognition from different sources, like 2d, 3d, still images, moving images. It also goes into deep about different algorithm and approaches. Eigenface and Fisherface are mostly common mentioned type of faces. Limitations like pose variation, illumination problem, issues derived from unconstrained enviorment are discussed[1].

1.1.2 Highlights

- Discusses various strong and weak points of approaches.

- Mentions different approaches and their respective efficiencies.

- Written concisely covering a wide range of approaches.

1.1.3 Limitations

- Illumination problem, pose variation problem section is obscured.

- Covered approaches have limited amount of database to work with

- Eigen vector, related mathematical notations needed more explanation.

1.1.4 Evaluation

Mostly covers everything, gives critical reasoning. Different approaches are discussed thoroughly. Proper presentations of face recognition approaches is visible.

Bibliography

[1] W. Zhao, R. Chellappa, P. J. Phillips, and A. Rosenfeld. Face recognition: A literature survey. *ACM Computing Surveys*, 35(4):399–458, December 2003.