



Eigenfaces for Recognition:

- **Experiments:**

- **Database Face Images:** Large amount of Images to train with varying lightning, scale and orientation.
- **Real-Time recognition:** Recognising faces in dynamic and unstructured environment.

- **Relation to Neural Network:**

- **Biological Motivation:** It seems plausible to build a Machine algorithm similar to human face recognition.
- **Neural Networks:** Eigenfaces Algo. (information processing model) can also be presented using simple parallel computing elements as in artificial neural network.

- **Conclusion:** Eigenfaces algorithm is not perfect but a lot accurate.



Eigenfaces for Recognition

- What is an eigenface?
- Face space
- Face detection and recognition



Eigenfaces as seen in the paper „Eigenfaces for Recognition“ by Matthew Turk and Alex Pentland.

- Conditions for this approach to work