A major difficulty of standard neural network models is that their generalization is difficult to control. For cognitive tasks, generalization should be learnable from examples. In this poster, we present a method based on rank list similarities that learns invariance under pose and illumination for face recognition on the basis of examples with a limited amount of people. The generalization to persons only known only in standard pose and illumination achieves recognition rates of 99% for pose and 89% for illumination, a radical improvement over previous results on the same database.

### Bunch Graph Matching (5)

**Examples**

![Similarity rank lists (2)](image)

![Recognition rates](image)

![ROC Curves](image)

![Early stopping](image)

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