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## Geometric Models of Varying Shapes

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Deforming Part Recognition Introduction

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## Deformable Part Modelling and Recognition Overview

System processes

**Previous Systems:** Thresholding, Boundary Tracking, Corner Finding (but here with better threshold)

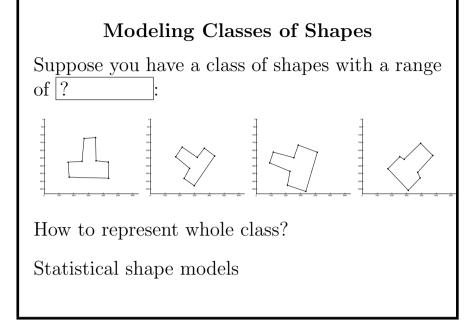
## This System:

Orientation to ? position

Training: Point Distribution Model calculation

Recognition: likelihood calculation

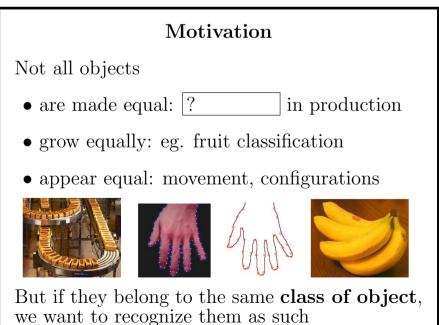
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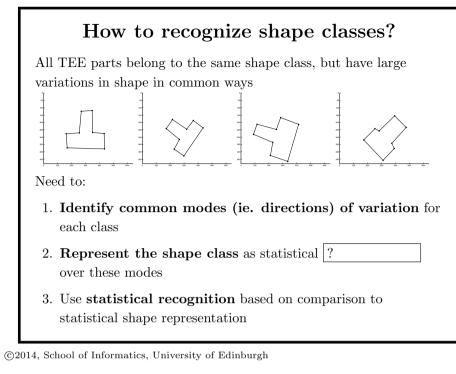
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Deforming Part Recognition Introduction

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Lecture Overview
Principal Component Analysis
Point ? Models
Model Learning and Data Classification
Rotating TEEs to Standard Position
Representing TEEs using Point Distribution Models
Recognize new examples w/statistical classifier

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