

# The World's Most Awesome Poster

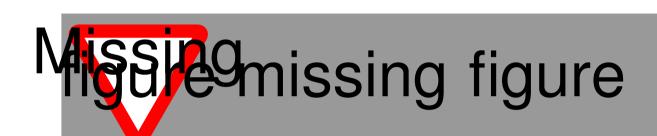
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# Object Alignment

- blah blah
- blah blah

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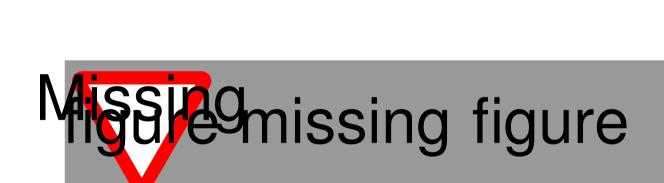
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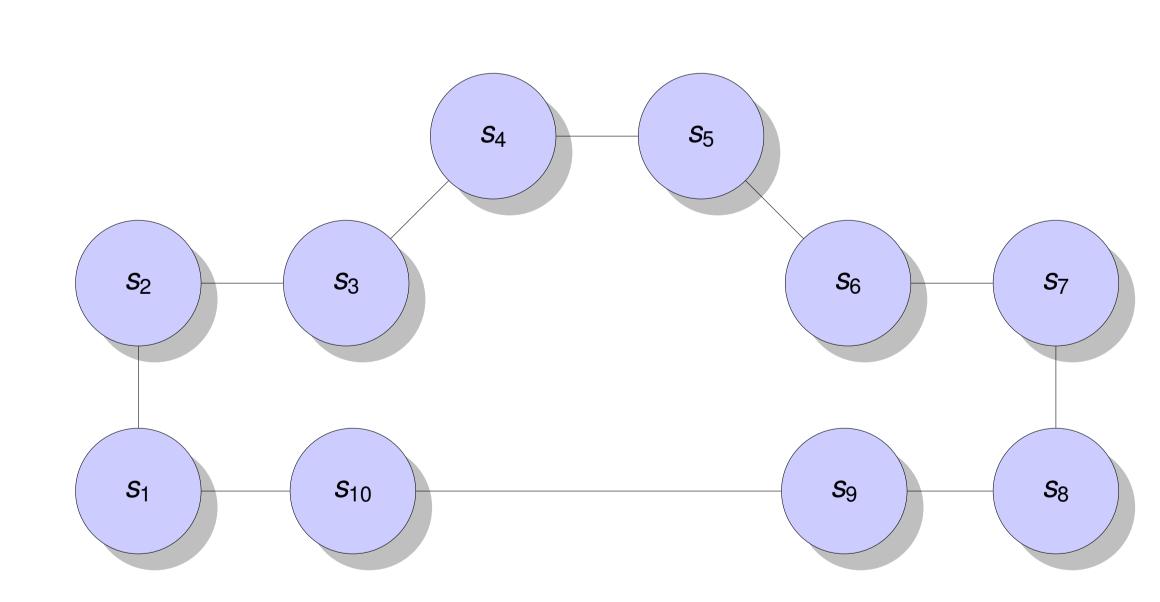
## Contribution:

- blah blah
- blah blah
- blah blah

## Landmark Shape Model

# Bayesian Partial Shape Inference





$$BPSI = egin{cases} S = \Phi b + \mu + \epsilon \ Y_p = M_p(sRS + t + \eta) \ Y_h = M_h(sRS + t) \end{cases}$$

S - canonical shape,  $Y_p$  - partial shape,  $Y_h$  - hallucinated shape,  $\Theta = \{s, R, t\}$ , M - Occlusion Mask

#### Occlusion Handling

- Deformations lie on low-dimensional subspace, can estimate shape from partial observations.
- Sample and evaluate multiple unoccluded landmark subset (k out of N) hypothesis.

## Landmark Appearance Model

Local Feature Representation: HOG

### Databases and Experiments

#### **Dataset**

- Cars from 3500 images from MIT Street Scene dataset.
- 3433 cars manually annotated with landmarks.
- Preprocessed via Generalized Procrustes Analysis.

#### References

- C. Gentry. A fully homomorphic encryption scheme. Stanford University, 2009.
- J. Fan and F. Vercauteren. Somewhat practical fully homomorphic encryption. IACR Cryptology ePrint Archive, 2012:144, 2012.

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