

FAST HYBRID IMAGE RETARGETING

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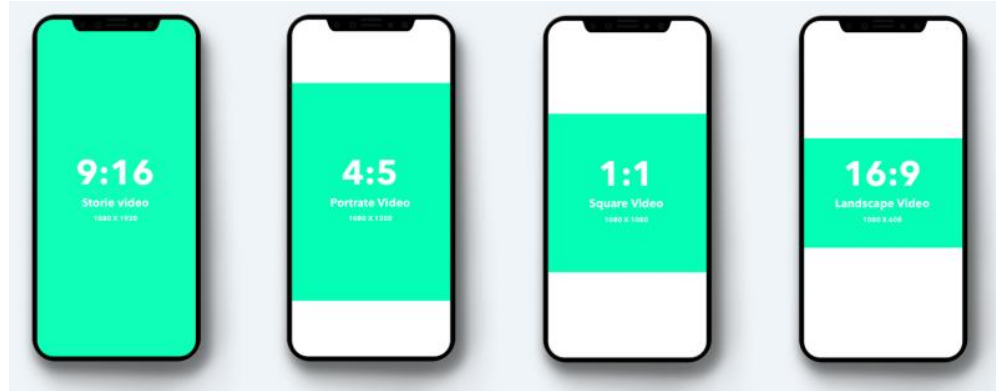
Timothy Smith

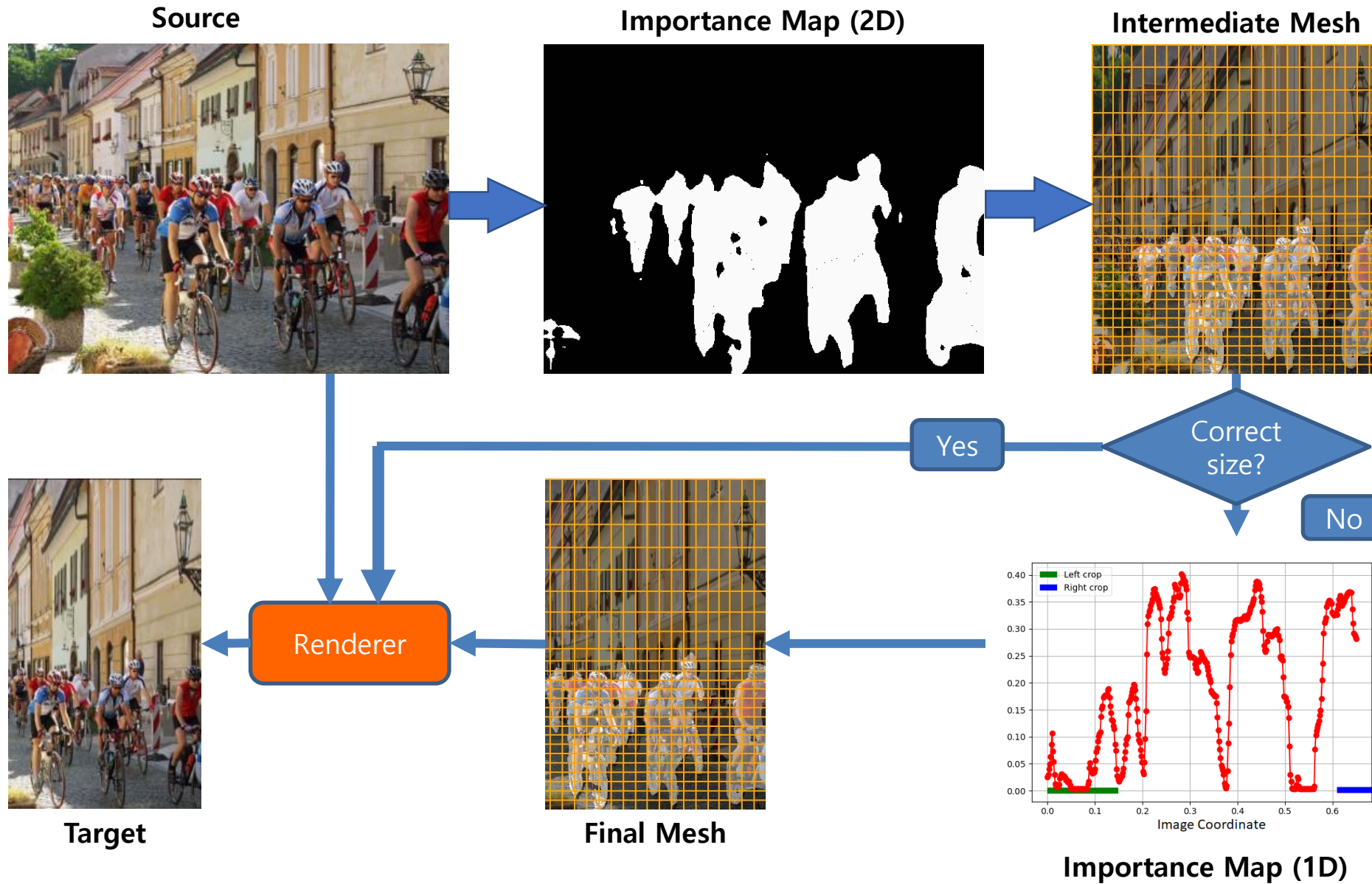
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- ▶ Problem
- ▶ Our solution
- ▶ Results
- ▶ Summary

- ▶ Many different visual media aspect ratios....
- ▶ And many different screen aspect ratios
- ▶ How to best resize the visual media?

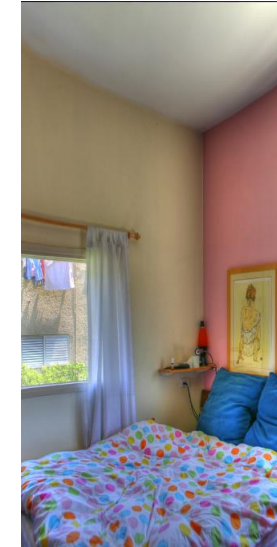




- ▶ Images retargeted to 50% width



- ▶ Images retargeted to 33% width



- ▶ Fully automated retargeting method
- ▶ Method allows fast retargeting: 35ms on desktop (TI2080); 130ms on mobile device (Samsung Galaxy Fold)
- ▶ Combines: the capabilities of DNNs for importance map generation; the efficiency of a warping algorithm; and a novel approach to quantify and limit warping distortions

**See poster 2173
and our paper
for further
details**

