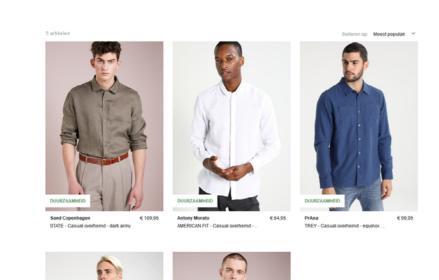
FITTING FASHION USING MACHINE LEARNING

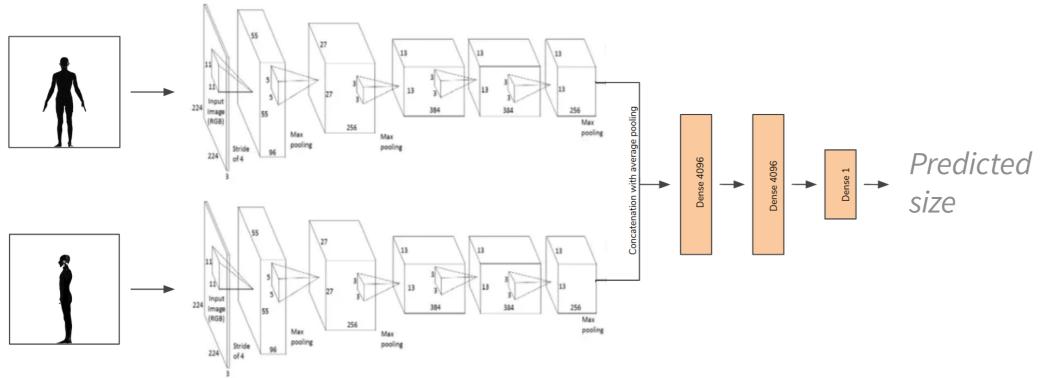
Jeroen Linssen + Remco Booij + Adrian Brezoi + Bodhi Mulders + Matthijs van Veen

Online Clothes-Shopping

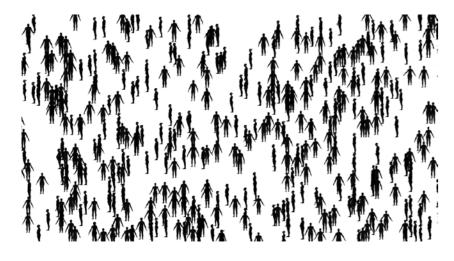


Online shopping for clothes can be hard, because you cannot directly try on apparel. Because of this, webshops offer the service to take in returns when clothes turn out not to fit. For some shops, this is half of their total shipped clothing items, resulting in tremendous costs. This calls for solutions to help prevent such problems.

TRAINING NEURAL NETWORKS



Deep learning network: FF-net





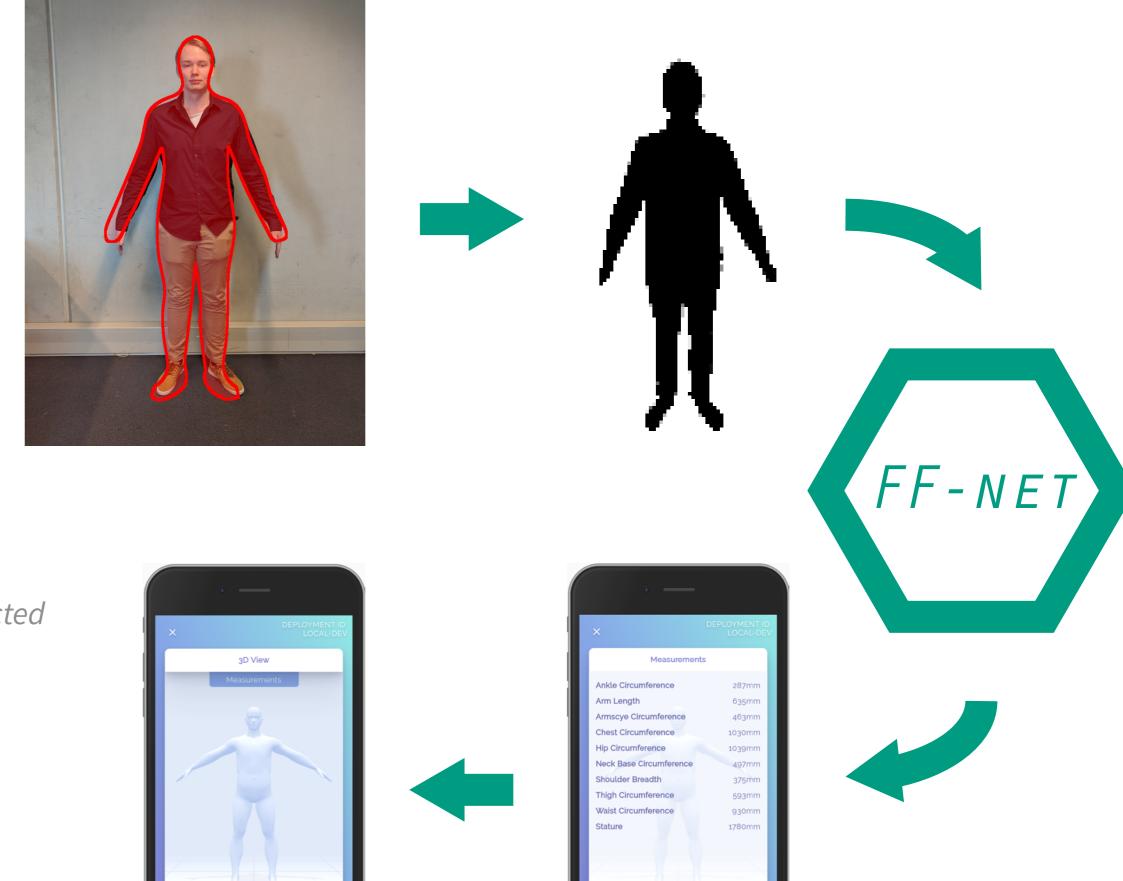


Decrease in percentual error rate

Our approach relies on a model generated through machine learning. We use a convolutional neural network (based on AlexNet) that is trained on a dataset of 2D images based on 3D scans of people with their corresponding measurements.

MACHINE LEARNING FOR SIZE ESTIMATION

Our goal: an online tool which can estimate a person's body measurements based on 2D photographs of that person. In the tool, you can upload your pictures, after which your sizes are determined and a 3D model of your body is generated.



OPEN CHALLENGES

- Improving speed and accuracy of FF-net and3D model generation
- Rendering clothes on the virtual character
- → Animating characters
- → VR/AR support

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