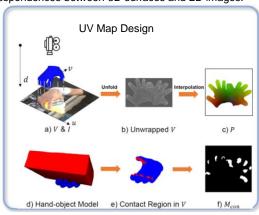


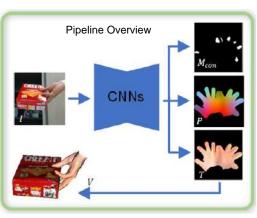
## UV-Based 3D Hand-Object Reconstruction with Grasp Optimization Ziwei Yu and Angela Yao National University of Singapore

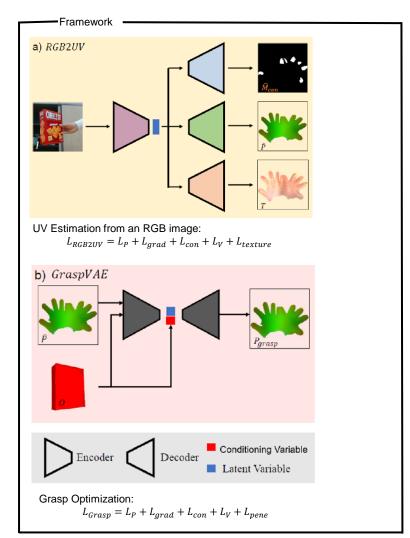


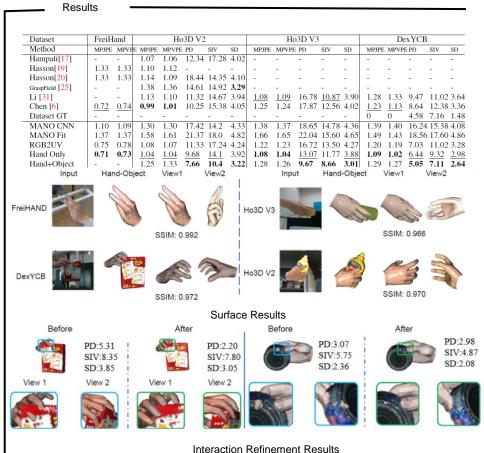
## Observation:

- MANO model is convenient to use but its accuracy is limited because it cannot represent direct correspondences between the RGB input and the hand surface.
- UV maps are idea representations as they establish dense correspondences between 3D surfaces and 2D images.











- Explored UV coordinate maps for hand-object surface modelling and designed the first dense representation to model contact regions
- Introduce grasp optimization to improve the feasibility of the hand UV coordinate maps.



## The 33<sup>rd</sup> British Machine Vision Conference