

3D Model Reconstruction

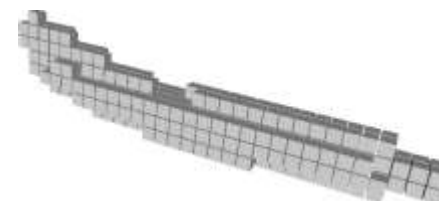
2nd Presentation

Ajith K B

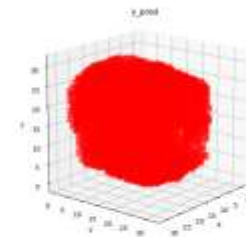
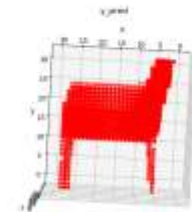
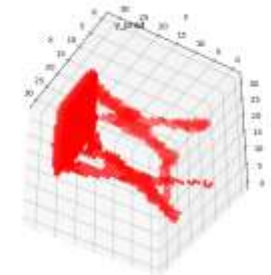
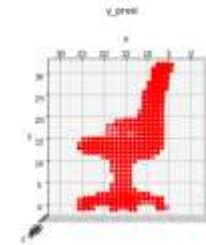
Turbo Intern

Wipro

Method: 3D R2N2



Method: Attsets



Network Comparison

- Networks – 3D R2N2 , MVS , Attsets.
- The Attsets network is permutation invariant & have better Accuracy
- gradient vanishing in RNN models
- High Information Content in Attsets.
- Computation Efficiency
- Generality and Robustness

Next Step/challenges

- . Need To create our own dataset.
- . Need to create ground truth models.
- . Referring – Shapenet dataset.
- . Need to improve the accuracy for live images.
- . Surface reconstruction
- . CAD file format conversion
- .

Referances

- http://svl.stanford.edu/assets/papers/choy_eccv_3dr2n2_16.pdf
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- <https://pdfs.semanticscholar.org/8b0d/96ebad79c878f3fe71aadf216f6d57998ca5.pdf>
- <https://arxiv.org/abs/1808.00758>
-
- <http://shapenet.cs.stanford.edu/shapenet/obj-zip/ShapeNetCore.v2-old/shapenet/tex/TechnicalReport/main.pdf>

Thank You



