

Deep Learning compatible Differentiable X-ray Projections for Inverse Rendering

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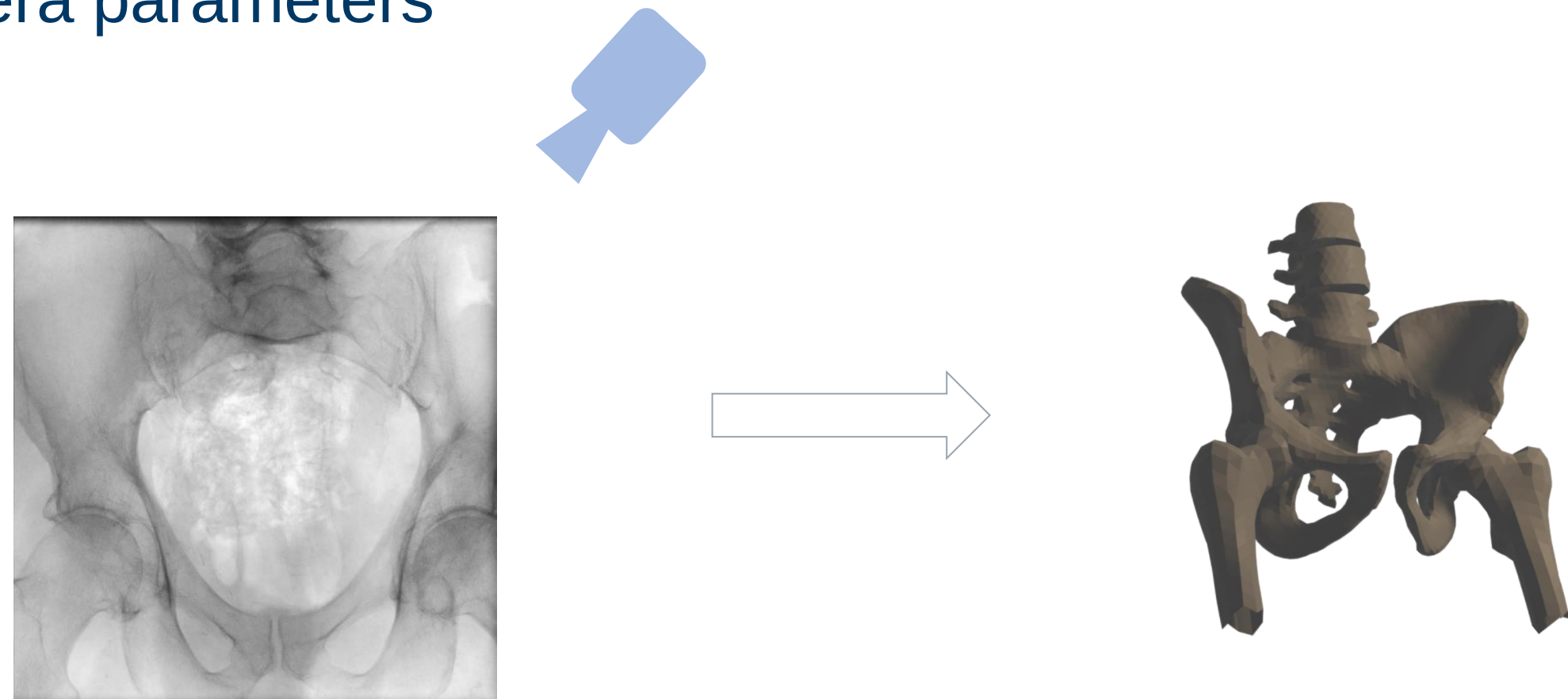
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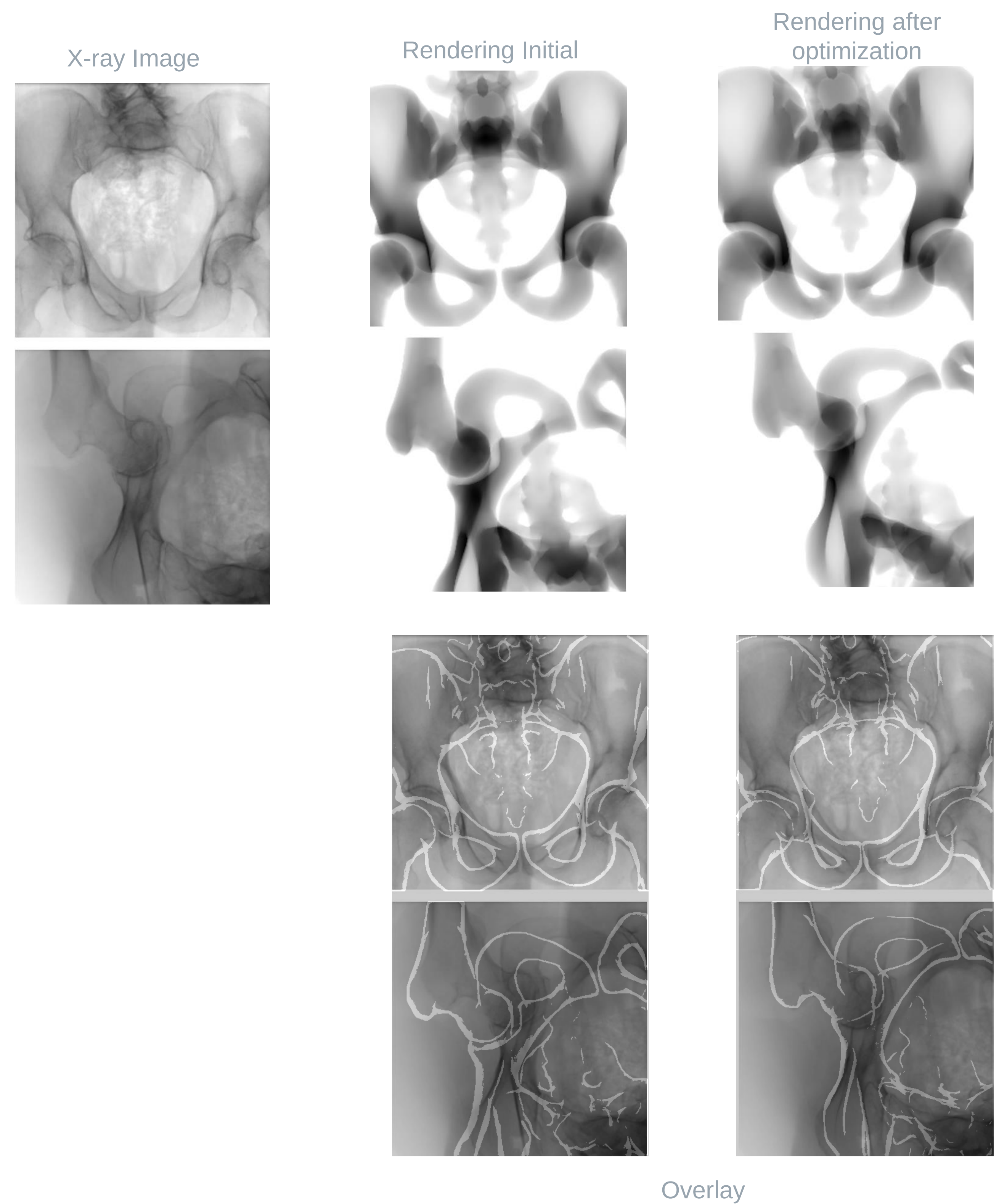
Model Reconstruction From A Fluoroscopy Image

- Goal: To generate a 3D model for given fluoroscopy image with camera parameters



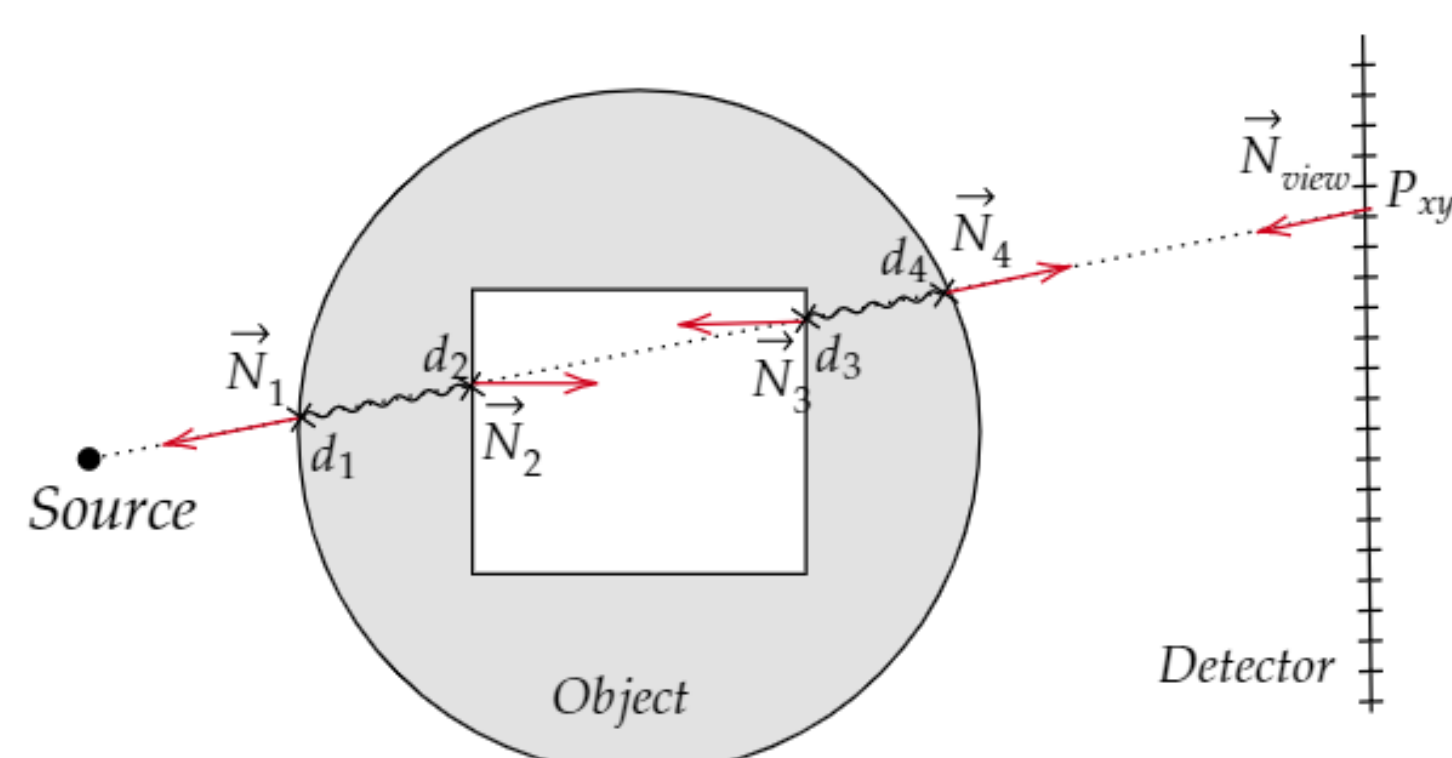
Registration

- Registration of shape model from a fluoroscopy image



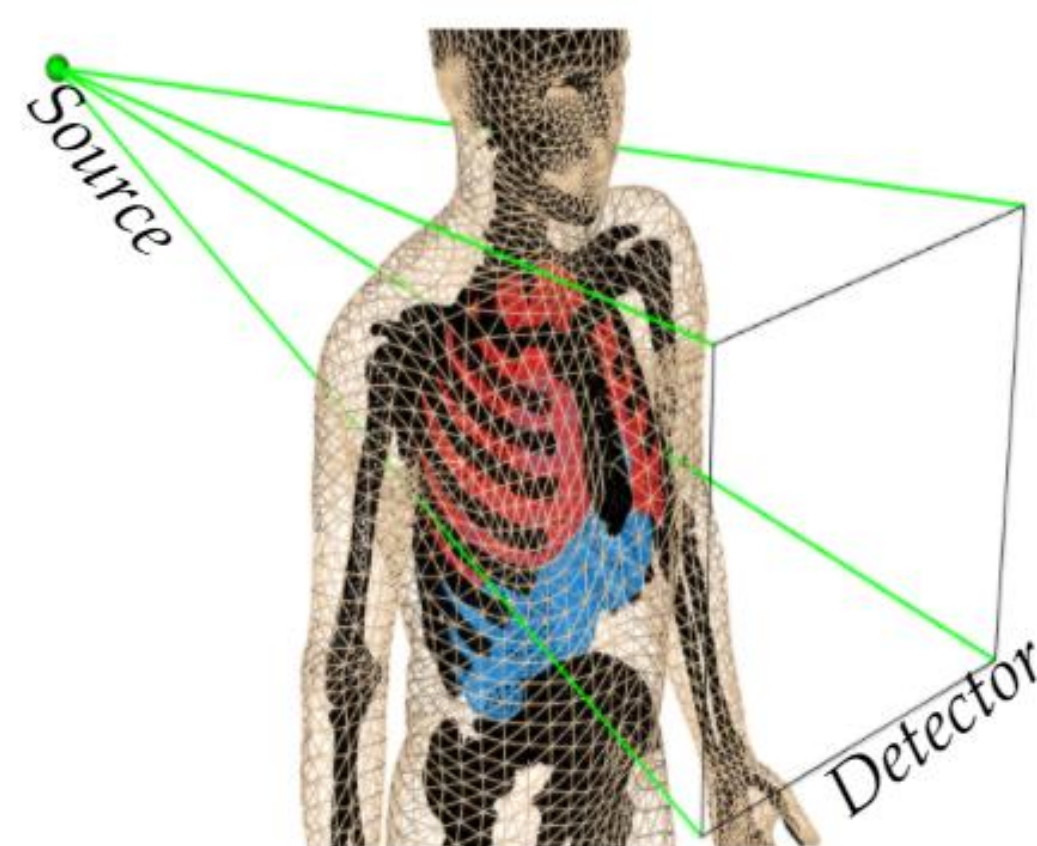
L-buffer

- Determine the distance traveled by a ray through an object
- Is differentiable operation → Rendering is possible

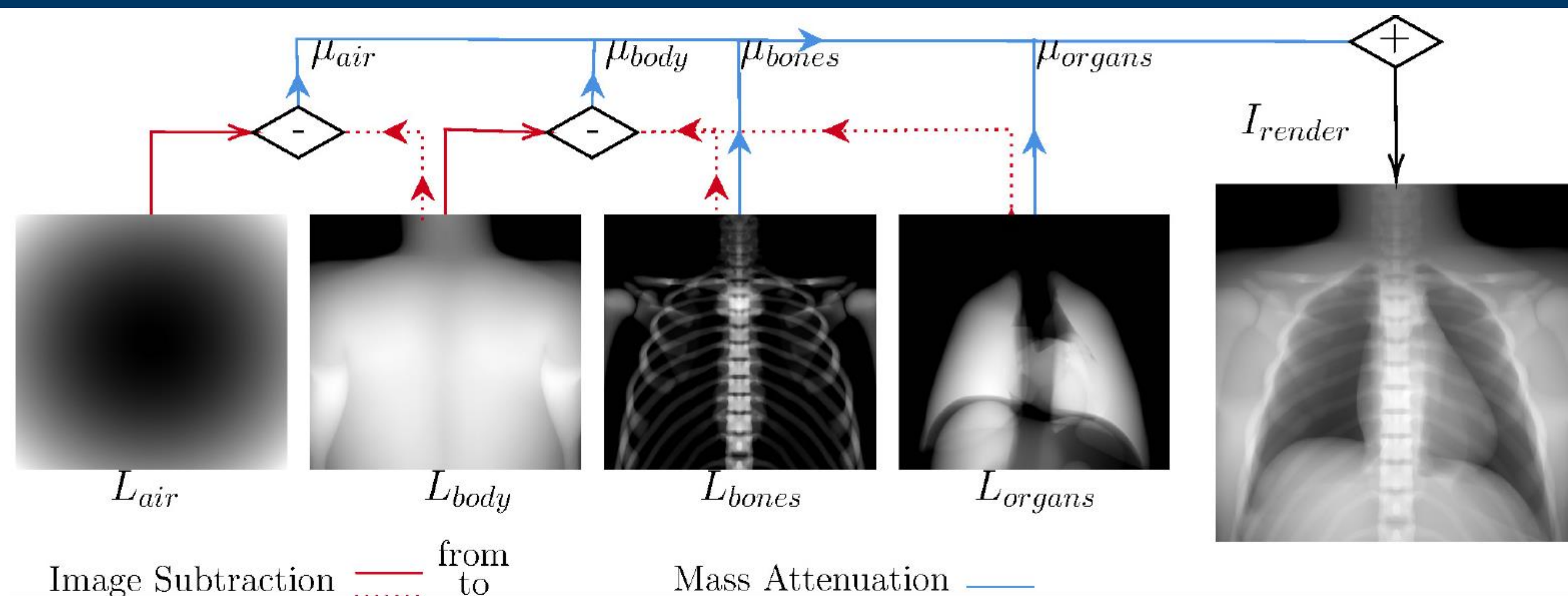


Human Anatomy Mesh

- Typical Human anatomy template mesh



X-ray Simulation



Contact



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