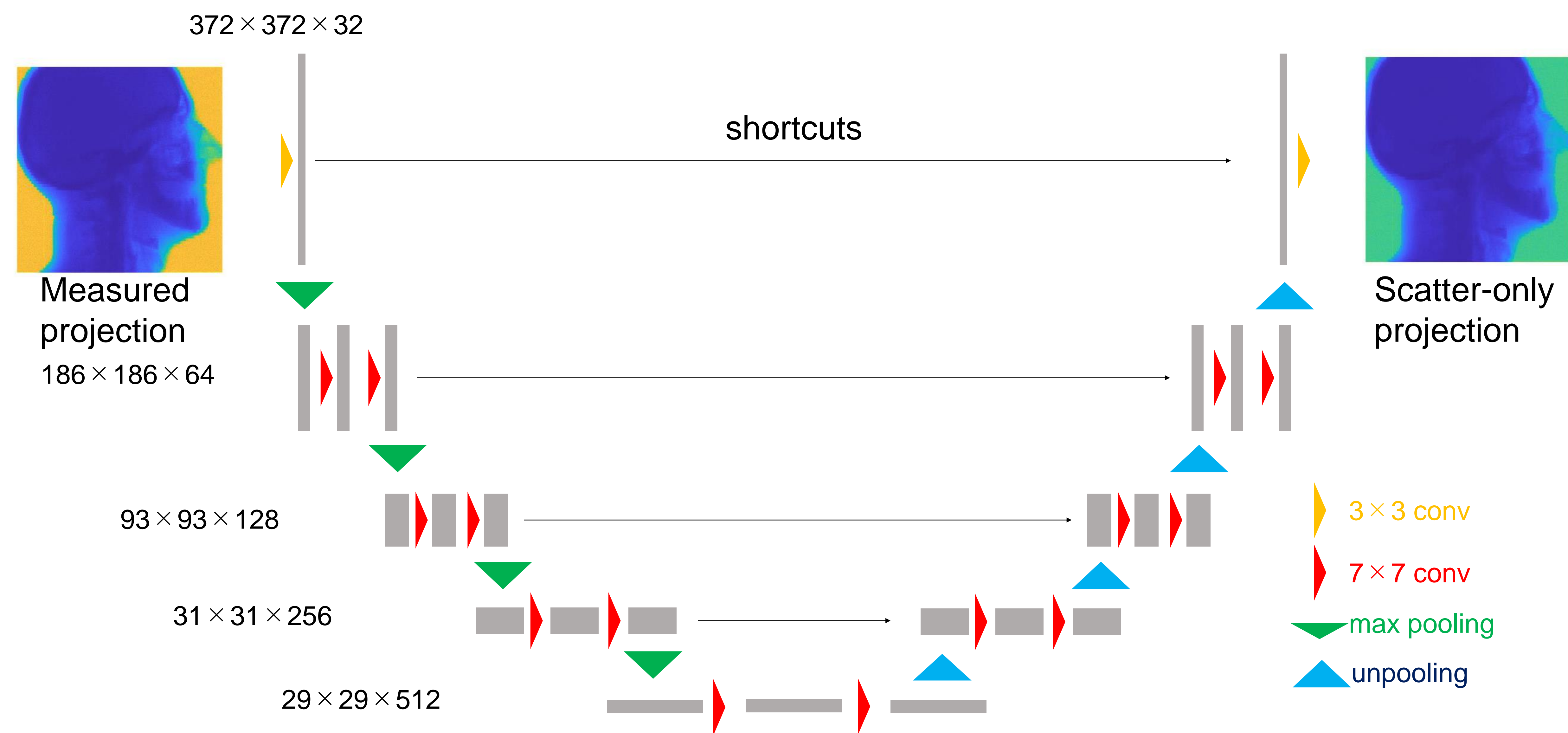


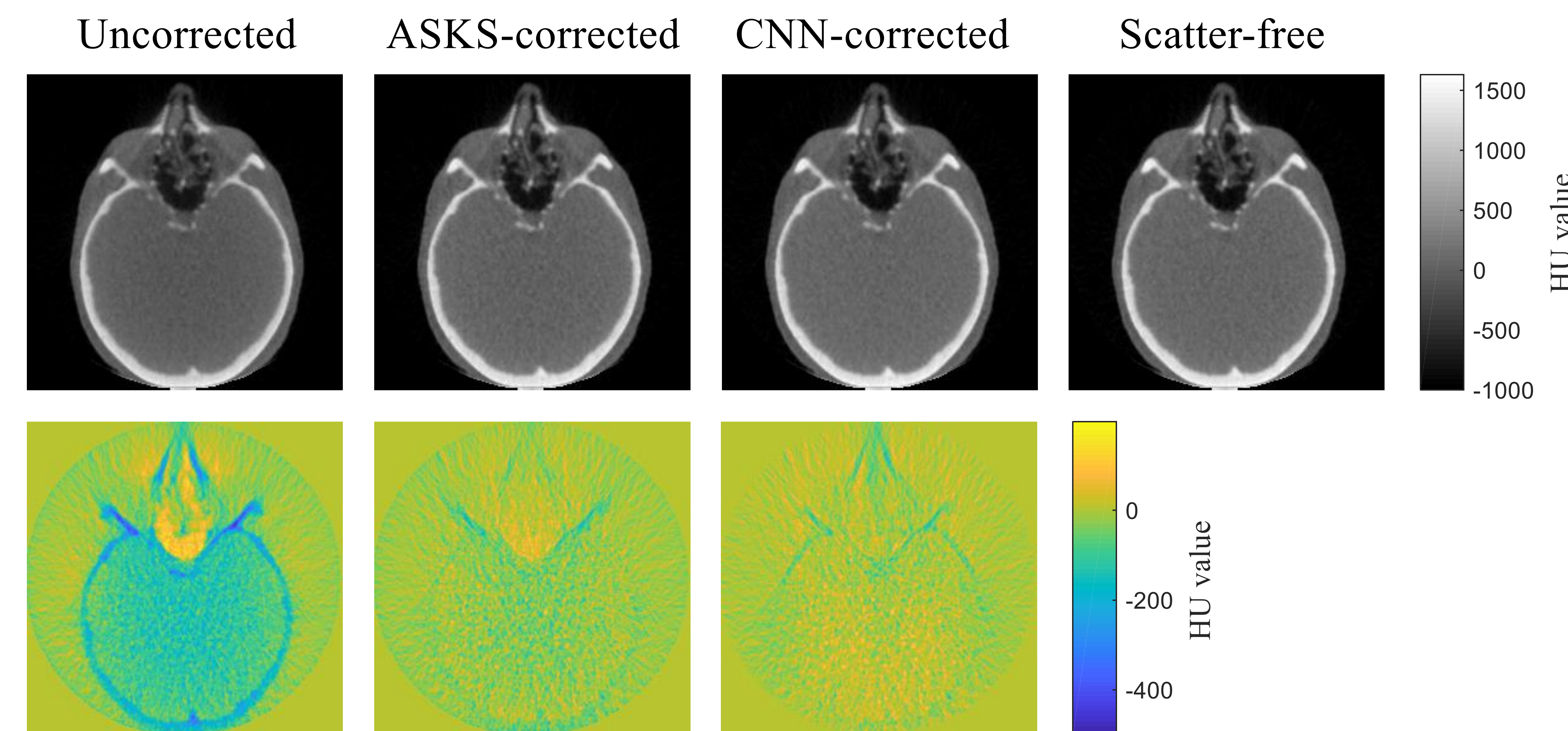
CBCT Projection-Domain Scatter Correction with a Residual Convolutional Neural Network (TH-EF-202-4)

Y. NOMURA^{1*}, Q. XU^{2,3}, H. SHIRATO^{2,4}, S. SHIMIZU^{2,5} and L. XING^{2,3}



This study developed a nearly-real-time CBCT scatter correction method using a Unet-based residual convolutional neural network in projection domain.

The proposed CNN-based method provided better intensity accuracy in reconstructed images than the adaptive scatter kernel superposition (ASKS)-based method. Computation time for calculating 360 projections was around 2.3 seconds.



AFFILIATIONS

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PRESENTATION DATE & TIME

Session “Cone-beam Computed Tomography”

Thursday, 2nd of August, 1:40PM – 1:50PM @ ROOM 202