## Efficient Light Field Computation for View Range Expansion Using Viewpoint Reduction

Supplementary Material

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**Figure 1:** Simulated displaying results of light field reconstructed with selected 25 sample views in view range consisting of 11×11 viewpoints using the method of our paper. The scene can be refocused dynamically.

## SA '18 Technical Briefs , December 4–7, 2018, Tokyo, Japan



**Figure 2:** Simulated displaying results of light field reconstructed with 25 sampled viewpoints in view range of  $11 \times 11$  viewpoints (top) and all viewpoints in view range of  $5 \times 5$  viewpoints (bottom).



**Figure 3:** Illustration of camera simulation. Different object distance will generate different image according to the imaging principle of the thin lens. (a) Object distance d equals to f. (b-c) Object distance d is greater or less than f.



Figure 4: Display results synthesized by the display patterns at a non-sampling viewpoint using our method. The focal plane of the display results is on the distal end. The reference view is generated by ray tracing at the same viewpoint. The blue marker shows the position of viewpoint.