Supplemental Material - Convergence Evaluation of the 2D Vorticity Data Set

## Fast and Memory-Efficient Topological Denoising of 2D and 3D Scalar Fields

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Here we give the convergence evaluation for the 2D vorticity data set, which supplements Section 5.1 in the paper.

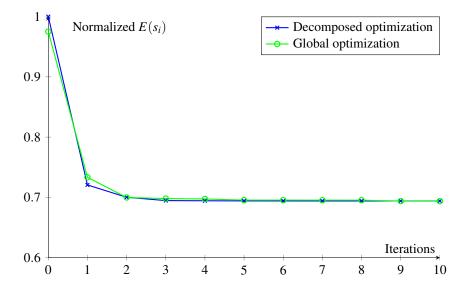


Figure 1: Energy levels of the iterations of the global and the decomposed optimization.

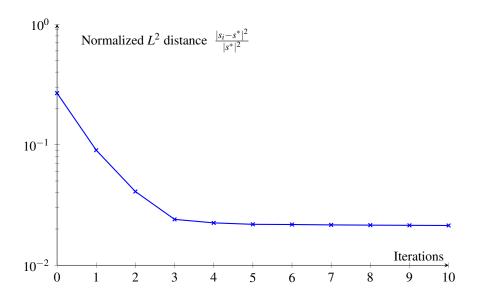


Figure 2: Normalized  $L^2$  distance between the converged result  $s^*$  of the global optimization and different iterations  $s_i$  of the decomposed optimization.