

Description of Additional Supplementary Files

File name- Supplementary Movie 1

File description- A video showing a folding motion of the Huffman Rectangular Weave paper model.

File name- Supplementary Movie 2

File description- A video showing an alternative folding motion of the Huffman Rectangular Weave paper model with certain facets allowed to bend.

File name- Supplementary Movie 3

File description- An animation showing the change in the critical transition density ρ^* for different origami structures under different selection rules and number of choices k .