A Notation

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Symbols

Symbol	Meaning
θ	Folding parameter; the difficulty axis. $\theta = 0$ is the flat sheet
ρ	Dihedral angle at a crease. $\rho = \pi$ when $\theta = 0$; derived from θ, not a second name for it
a, b, α	Miura-ori cell parameters
M, V	Mountain and valley creases
k	Neighbourhood size for kNN-graph methods
D	Ambient dimension after linear lift
$\mathcal{M}$	The folded manifold in $\mathbb{R}^3$
$\mathcal{U}$	The exact unfolding — ground truth in $\mathbb{R}^2$
d_A	Ambient distance, measured in $\mathbb{R}^3$ through the fold
d_U	Intrinsic (path) distance, measured along the surface — equal to Euclidean distance in $\mathcal{U}$