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A Generative Geometry Foundation Model for Engineering Applications







Original Surface

Reconstructed Surface



Minimization of area-to-volume ratio through differentiation



Batched Bayesian optimization to identify low-drag cars

Fit a Gaussian Process on the latent codes of cars to predict their drag, then applied Bayesian Optimization to identify a batch that jointly minimized the lower confidence bound.



3D printed interpolation between a tortoise and a hare

Linearly interpolated the latent codes corresponding to a tortoise and a hare.

