winter point cloud land. p นา ธินางาทก …

Oh what fun it is to train a meshing DUN. Jingle bells, jingle bells, jingle all the way!

.ibi did-laj did-laj dd. หุ่นอ่านอก ob ybod ilsl

mallas correctas y felicidad!

feliz Navidad,

המ-ומ-ומ-ומי ומ-ומ-ומ-ומ: Deck the points with meshes quickly,

just as the ground truth would have been. in dreaming of a clean point cloud,

usunds us trad os teid ub Oh lannenbaum, oh lannenbaum,

levry Pristmas and a Happy New Year

Machines might have a sense for Christmas after all!

This scene of three trees was reconstructed from an unoriented point cloud with scan shadows. Our neural network **Points2Surf** [1] estimates a signed-distance function from a local and a global subset of the point cloud. By relying not only on global data, it is independent from object classes.

> Around the corner, not far away, Meister conducts his orchestra today.

Scan the QR code or follow the link on the right to visit our procedural Christmas song generator. It uses a musical grammar [2] inspired by split and shape grammars. Feel free to play around with the exposed parameters or let the random generator surprise you.

References

[1] Erler, Philipp et al. "Point2Surf: Learning Implicit Surfaces from Point Clouds" in European Conference on Computer Vision

[2] Eibensteiner, Lukas et at. "Temporal-Scope Grammars for Polyphonic Music Generation" in ACM SIGPLAN Int. Workshop on Func. Art, Music, Modeling, and Design



https://xmas.cg.tuwien.ac.at/2021/song







Point cloud

Reconstructed mesh

Ground truth