BOXERgeom SUpporting Al

AI & Machine Learning efficiently consumes geometry in voxelised form – a 3D "image". The geometry is derived from design intent CAD and through-life PointCloud scans



F. Yu, L. Zhang, X. Tang and J. Xiao 3D ShapeNets: A Deep Representation for Volumetric Shapes

BOXERgeom Supporting MRO

Manufacturing **geometry** is derived from design intent CAD. Throughlife, in-service geometry is derived from scans in the form of tessellated PointClouds or from **physics-based simulation of degradation & wear**



Example: simulated particulate erosion of a Francis Turbine using **BOXERgeom's** geometry editing capabilities supported by **BOXERmesh**



[We are grateful to the NTNU, the Norwegian University of Science & Technology for the geometry used for the Francis-99 Workshop]









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