

Simpleware NURBS

Release Version T-2022.03

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Export Formats

- IGES (*.igs)
- STEP (*.stp)

Patch Fitting

- Two-step process of creating triangulated model preview before fitting NURBS patches
- Additional remeshing algorithm for improving the triangulated surface before fitting patches
- Choice of patch fitting: curvature and contour algorithms
- Clever auto surface setting to create optimal fitting
- Accessibility to advanced options for fine tuning both fitting algorithms
- Including setting target number of patches
- Contour approach includes fillet preservation on feature edges
- Allow control points to be adaptively to patch complexity or constant

Quality Inspection Tool

- Inspect NURBS model to check for errors
- Inspect individual patches or clusters of patches
- Option to show errors (e.g. surface holes and surface intersections) and warnings (e.g. patch distortions)
- Show distorted patches above a user-defined threshold
- Click on an entry in the quality inspection dialog to zoom into the specific patch
- Also pin-points location within the image data/segmentation

Simpleware NURBS creates Non-Uniform Rational B-Splines (NURBS) patches which provide a route from image data to computer aided design (CAD) packages.

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