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Novel re-parameterization for shape optimization and comparison with knot-based gradient fitting method

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Highlights (for review)

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- Data set re-distribution developed for more accurate NURBS fitting
- Data points derived from point cloud obtained by optical 3D scanning
- Data set organized as structured matrix for fitting of 3D geometric entities
- Procedure is based on feature detection using local eigenvalue ratios
- Method applicable to single-partition or multi-partition shape optimization

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