

# **3D CONVEX DECOMPOSITION OF CAD MODELS ON THE BASE OF GROUPING OF TRIANGULAR SOLVERS**

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Convex decomposition of 3D geometrical objects has wide application in different tasks of product and process modeling. The idea is to represent complex object as a set of approximate convex sub-objects which are easier to handle.

German auto designing company Schulz-Engineering decides use convex decomposition for identification of critical areas of robots movement into automated plant. Georgian CAD/CAM engineering center has been worked out the special approach of convex decomposition with corresponding software application for this purpose.

Report describes decomposition method based on the separation of groups of triangular solvers and their selection according to predefined rules.