

*Geometric Folding Algorithms:
Linkages, Origami, Polyhedra [DO07]*

Updates to Chapter 24, Shortest Paths and
Geodesics

Section 24.3: Star Unfolding

Subsection 24.3.2: Cut Locus is a Voronoi
Diagram

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This claim is false:

“A nonobvious corollary is that the source images are the vertices
of the convex hull of the star unfolding.” p. 370.

Correction due to Joël Rouyer and Costin Vilcu. See Fig. 1 for an example.
More dramatic violations are possible.

References

- [DO07] Erik D. Demaine and Joseph O'Rourke. *Geometric Folding Algorithms:
Linkages, Origami, Polyhedra*. Cambridge University Press, 2007.

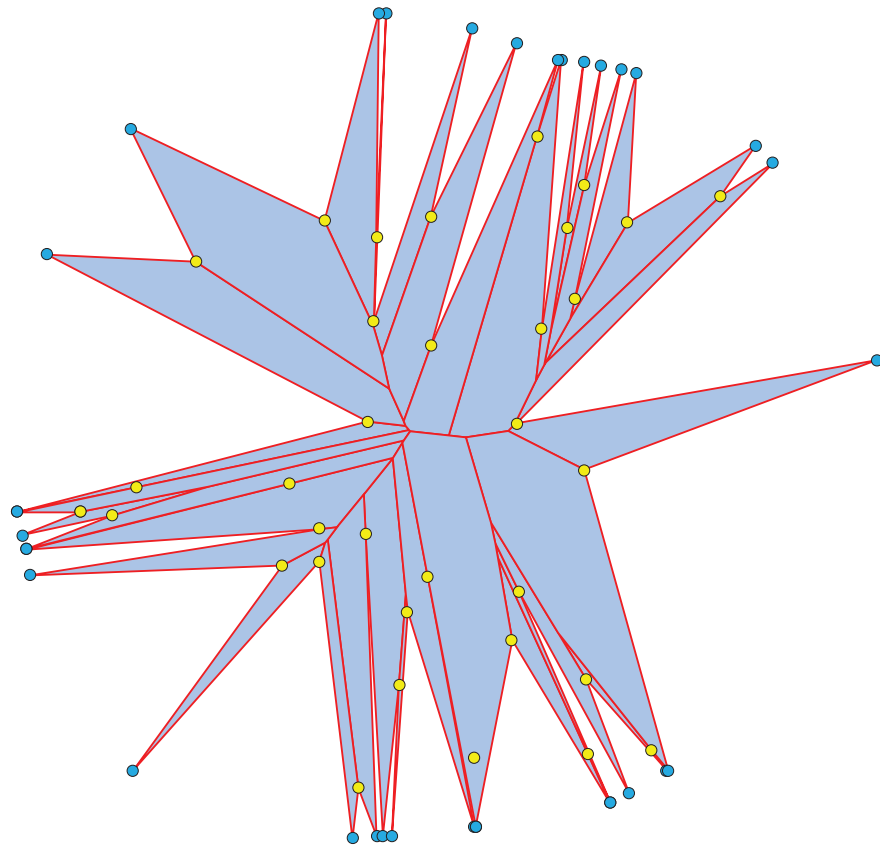


Figure 1: Star unfolding of a polyhedron of $n = 35$ vertices. Cut locus red, vertices yellow, source images blue.