Title of paper: Generating Crease Patterns from Prescribed Boundary Foldings.

Author: Jason S Ku
Abstract: Given a sheet of paper and a prescribed folding of its boundary, is there a way to fold the paper's interior without stretching so that the boundary lines up with the prescribed boundary folding? For polygonal boundaries nonexpansively folded at finitely many points, a consistent isometric mapping of the polygon interior always exists and is computable in polynomial time. In this talk, we expand on a construction algorithm and explore the families of producible structures.

