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Goran Konjevod* (goran@asu.edu). *Some combinatorial and algorithmic results on origami.*

We review some recent combinatorial and algorithmic results on origami. One of these is a new construction for folding an n by n checkerboard from an uncut square or rectangular sheet. The two sides of the sheet have different colors and this is used to create a grid of squares alternating in color. The construction is asymptotically the best known and, in particular, beats a long-conjectured lower bound.

Results presented include joint work with Erik and Martin Demaine and Robert Lang. (Received April 12, 2010)