

Weng, J. F.; Rubinstein, J. H.**A note on the compression theorem for convex surfaces.** (English) Zbl 0986.90047

Discrete Math. 212, No. 3, 257-260 (2000).

Summary: Suppose $a_i b_i c_i$ ($i = 1, 2$) are two triangles of equal side lengths and lying on sphere Φ_i with radii r_1, r_2 ($r_1 < r_2$), respectively. We have proved that there is a continuous map h of $a_1 b_1 c_1$ onto $a_2 b_2 c_2$ so that for any two points p, q in $a_1 b_1 c_1$, $|pq| \geq |h(p)h(q)|$ [*J. H. Rubinstein and J. F. Weng*, J. Comb. Optimization 1, 67-78 (1997; [Zbl 0895.90173](#))]. In this note we generalize this compression theorem to convex surfaces.

MSC:[90C27](#) Combinatorial optimization[90C35](#) Programming involving graphs or networks**Keywords:**[compression theorem](#); [convex surface](#); [continuous map](#); [comparison theorem](#)**Full Text:** [DOI](#)