

Homothetic Jitterbug-like Polyhedral Linkages

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Abstract: A formal definition for Jitterbug-like polyhedral linkages is presented. Some analyses and results for homothetic Jitterbug-like linkages that are associated with certain necessary and/or sufficient conditions on possible polyhedral geometries and overconstraint conditions of the linkages are presented. The theory is extended to polyhedral approximations of free-form open surfaces.