

Technion-Israel Institute of Technology

Computer Science Department

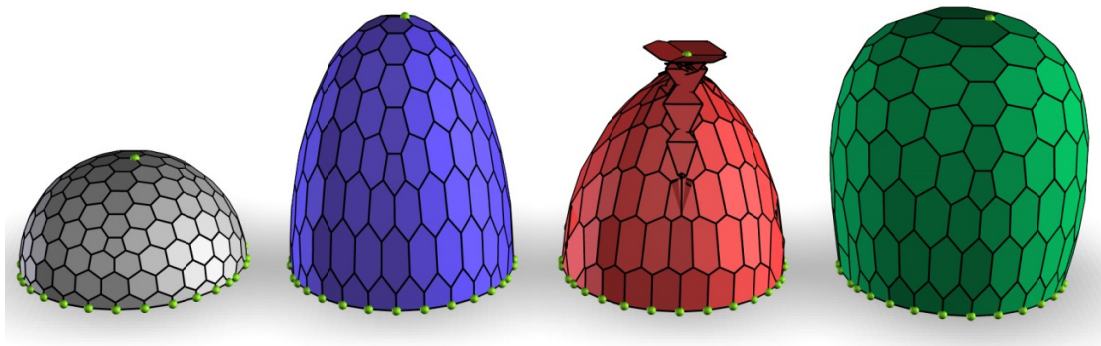
Center for Graphics and Geometric Computing

CGGC Seminar - Ph.D. Talk

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Interactive Design of Polyhedral Meshes



Glass and plywood are commonly used materials in architectural and industrial design. However, these materials impose serious constraints on the creative freedom of a designer, as the space of these constructions is the space of polyhedral meshes (PM), namely, meshes with planar faces, which is known to be very limiting. In addition to the inherent difficulty in generating such meshes, manipulating them while preserving planarity presents additional challenges. Herein, we discuss two approaches to editing polyhedral meshes. The first approach is based on an extremely fast optimization and the second on linear subspace exploration. We show that our approaches are viable in practice and surpass the state-of-the-art.

This talk summarizes the Ph.D. research of the speaker under the supervision of Prof. Gotsman Craig and Prof. Mirela Ben-Chen

The lecture will be held on Sunday, 19.5.2013, at 13:00, Taub 337

Snacks and Beverages at 12:45

הזמנה זו מהווה אישור כניסה עם רכב לטכניון