



**Technion-Israel Institute of Technology**  
**Computer Science Department**  
**Center for Graphics and Geometric Computing**



## **CGGC Seminar – M.Sc. Talk**

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### **Correspondences between Subdivision Surfaces**

We present a novel method for computing correspondences between subdivision surfaces, represented as functional maps. We leverage two main advantages of the hierarchical structure: (1) the spectral basis functions, which are multi-resolution by construction, can be succinctly represented on a subdivision surface, and (2) the pointwise map reconstruction can be done hierarchically. Using these properties, we design a computational pipeline for finding correspondences between high resolution meshes which is much faster than existing approaches. We show how the computed correspondences can be used for detail transfer between artist-designed subdivision surfaces.

**The lecture will be held on Sunday, 17.03.2019, at 13:30, Taub 337**

**הזמנה זו מהווה אישור כניסה עם רכב לטכניון**