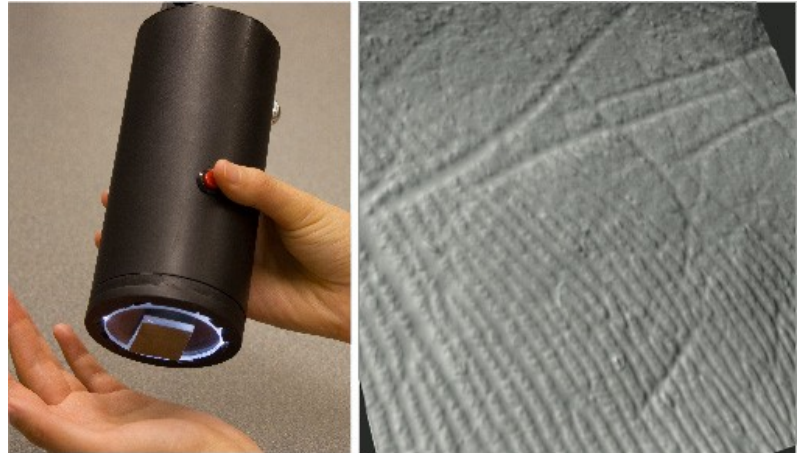


Microgeometry Capture using GelSight



Dr. Micah Kimo Johnson

GelSight is a slab of clear elastomer covered with a reflective skin. While seemingly simple, this novel system is capable of measuring surface texture and shape at high resolutions. When pressed against a surface, the reflective skin conforms to the surface topography, effectively painting the surface with a controlled uniform reflectance. By controlling the material properties of the surface, GelSight allows for the precise measurement of surface geometry of any material. In this talk, I will present the core GelSight technology, describe several systems we have built and show a working demo of one of our systems. I will also show results from a variety of materials, representing applications from diverse industries.

4PM, WEDNESDAY, NOVEMBER 9, 2011

Carlson Auditorium, Center for Imaging Science (Bldg. 76)