

## Sensory Skins: A Surface-based Approach to Soft Robot Control

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During this workshop talk, I will present my group's progress towards sensory skins – distributed sensors over a surface to provide proprioceptive and tactile feedback. I will discuss the merits of both liquid metal-based resistive sensors and conductive composite-based capacitive sensors in terms of manufacturability and robustness in implementation. I will also show demonstrations of sensory skin prototypes being used for soft robot state estimation and control, including the closed-loop control of a soft gripper designed for pack-and-deploy operations.

