

1096-VG-2143      **James Brian Hall\*** (j9hall@math.ucsd.edu), Department of Mathematics, University of California, San Diego (UCSD), 9500 Gilman Drive #0112, San Diego, CA 92093-0112. *Automated Estimation of Wound Size.*

When monitoring the healing of a wound, one of the key measurements is the area, or size, of the wound. Standard practices of wound size estimation are either extremely inaccurate or labor intensive. In this talk, I present work done in collaboration with researchers at the UCSD medical center for developing an automated wound size estimator based on photographs of wounds. I will show how, using techniques from machine vision, it is possible to estimate the size of a wound with minimal user input, and compare this approach to the standard methods of wound size estimation. (Received September 17, 2013)